

WARNING

Trusses ARE NOT symmetrical

DO NOT erect floor truss backwards or out of order!

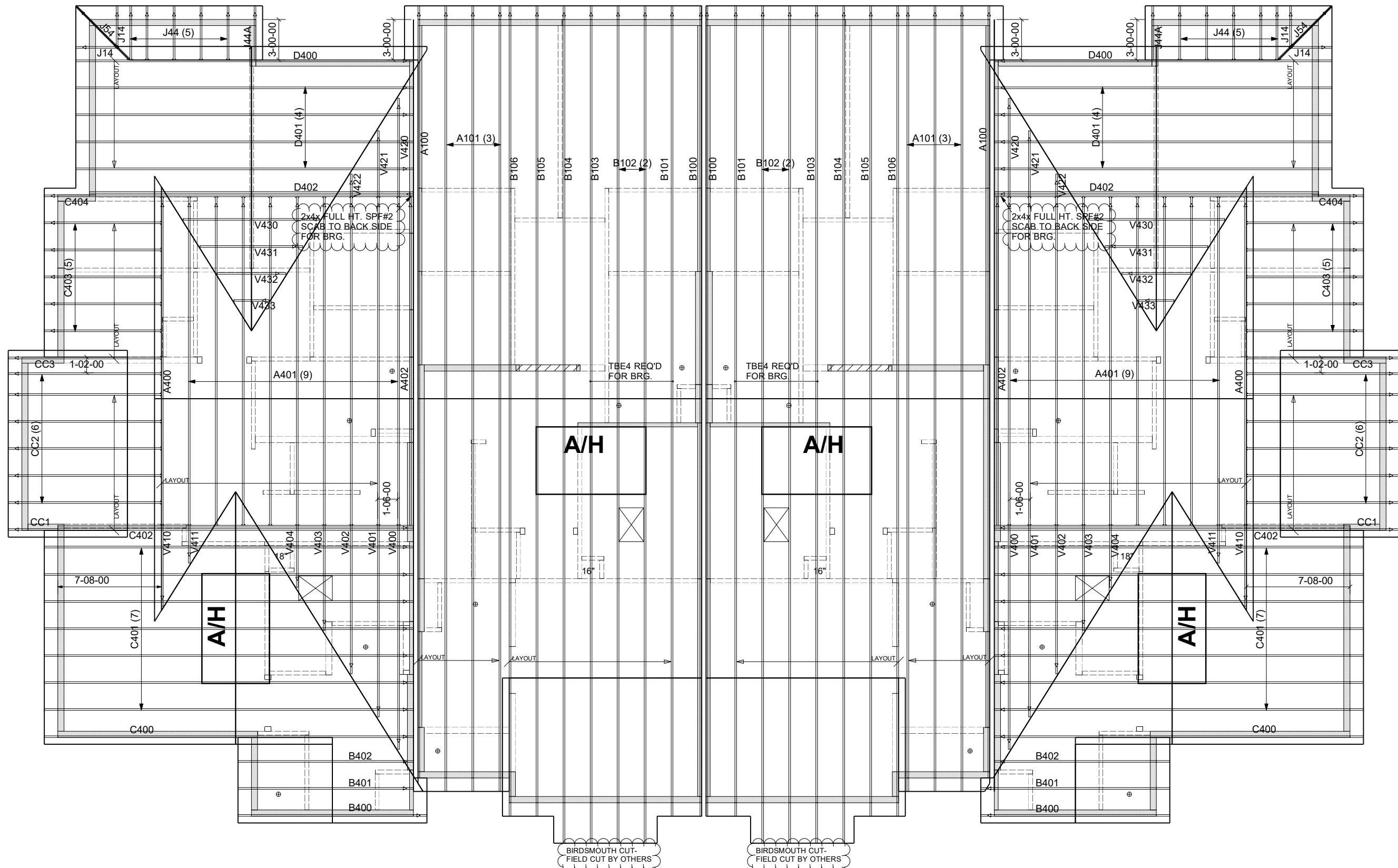
TBUSS NOT

- TRUSS NOTES:**

 1. ◇ INDICATES LEFT END OF TRUSS
 2. WALL TOP PLATES ASSUMED TO BE SPF LUMBER-
SEE TRUSS DRAWINGS FOR BRG. BLOCKS AND BRG. ENHANCERS
 3. REFER TO GIRDER TRUSS DRAWING(S) FOR TRUSS TO TRUSS
CONNECTIONS- SIMPSON HANGERS & FASTENERS
 4. TRUSS LAYOUT CAN BE MODIFIED WITHOUT CREATING AN OVER-SPAN

TRUSS D402:

APPLY 2x4x FULL HT. SPF#2 SCAB TO BACK
SIDE. ATTACH W/ (2) ROWS OF 10d NAILS (0.131"x3")
SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.



PLAN 4 - ETR4-2-29 A

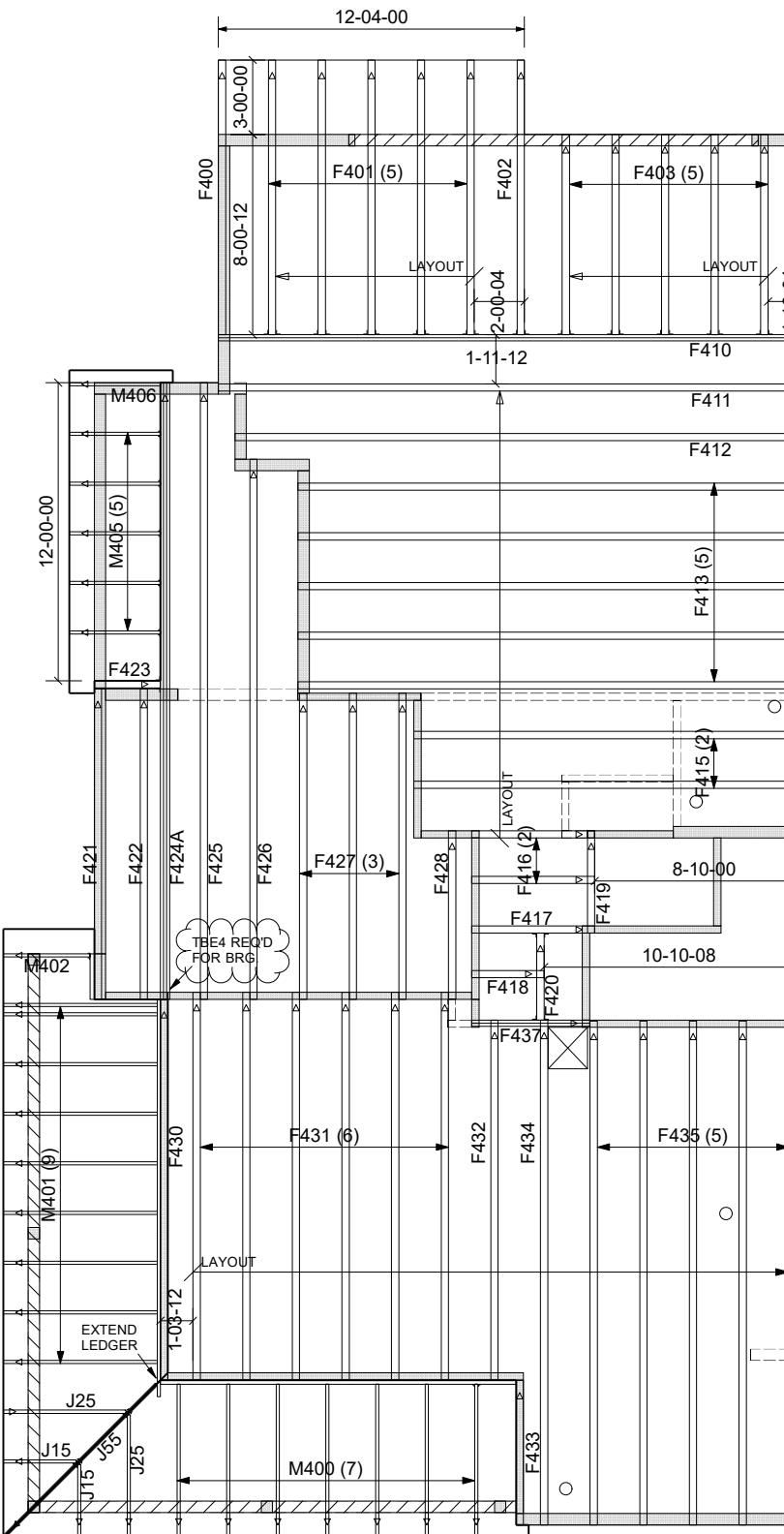
PLAN 1 - ETR3-2-21 A

PLAN 1 - ETR3-2-21 A

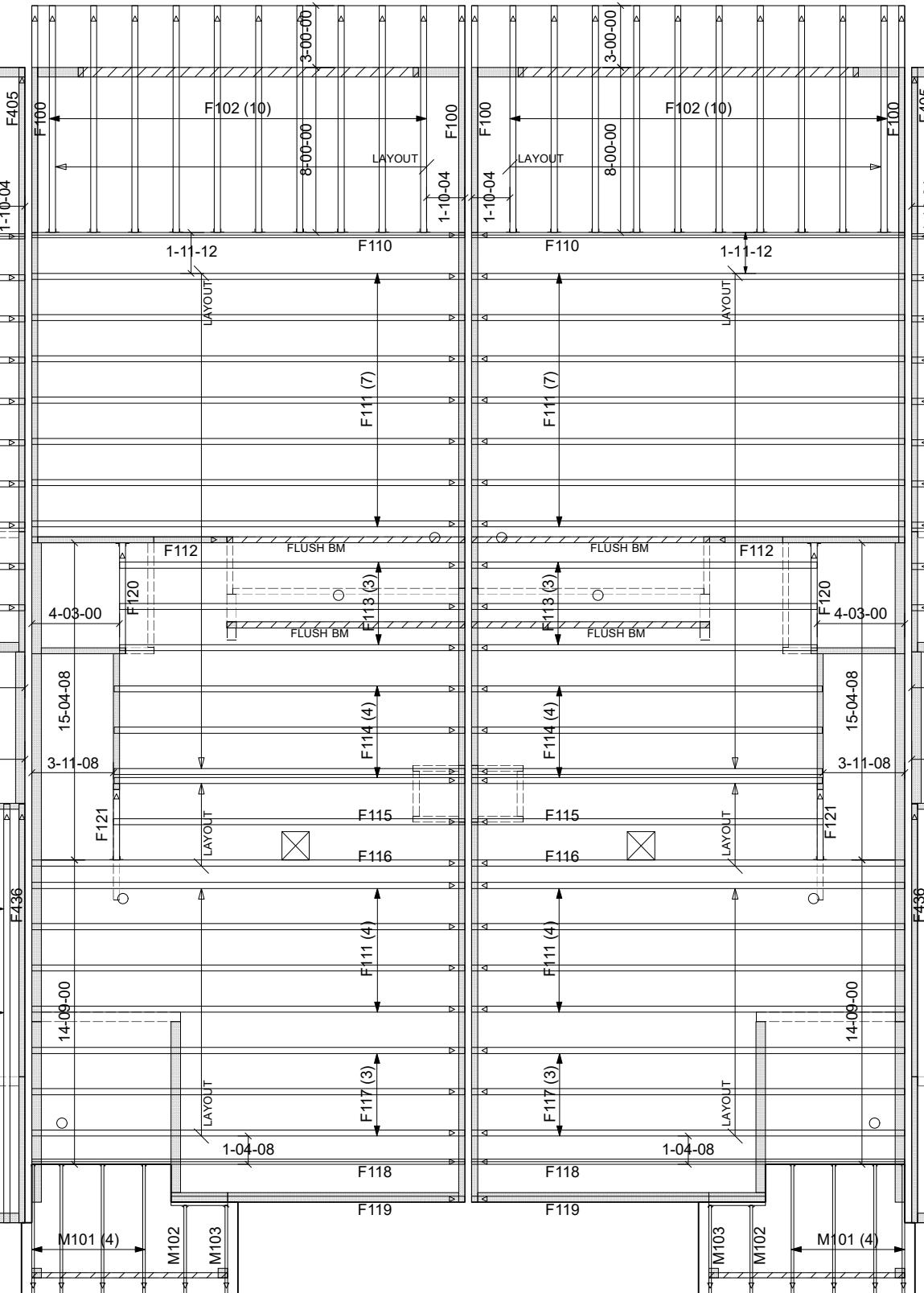
PLAN 4 - ETR4-2-29 A

4 PLEX- EL. A- FARMHOUSE

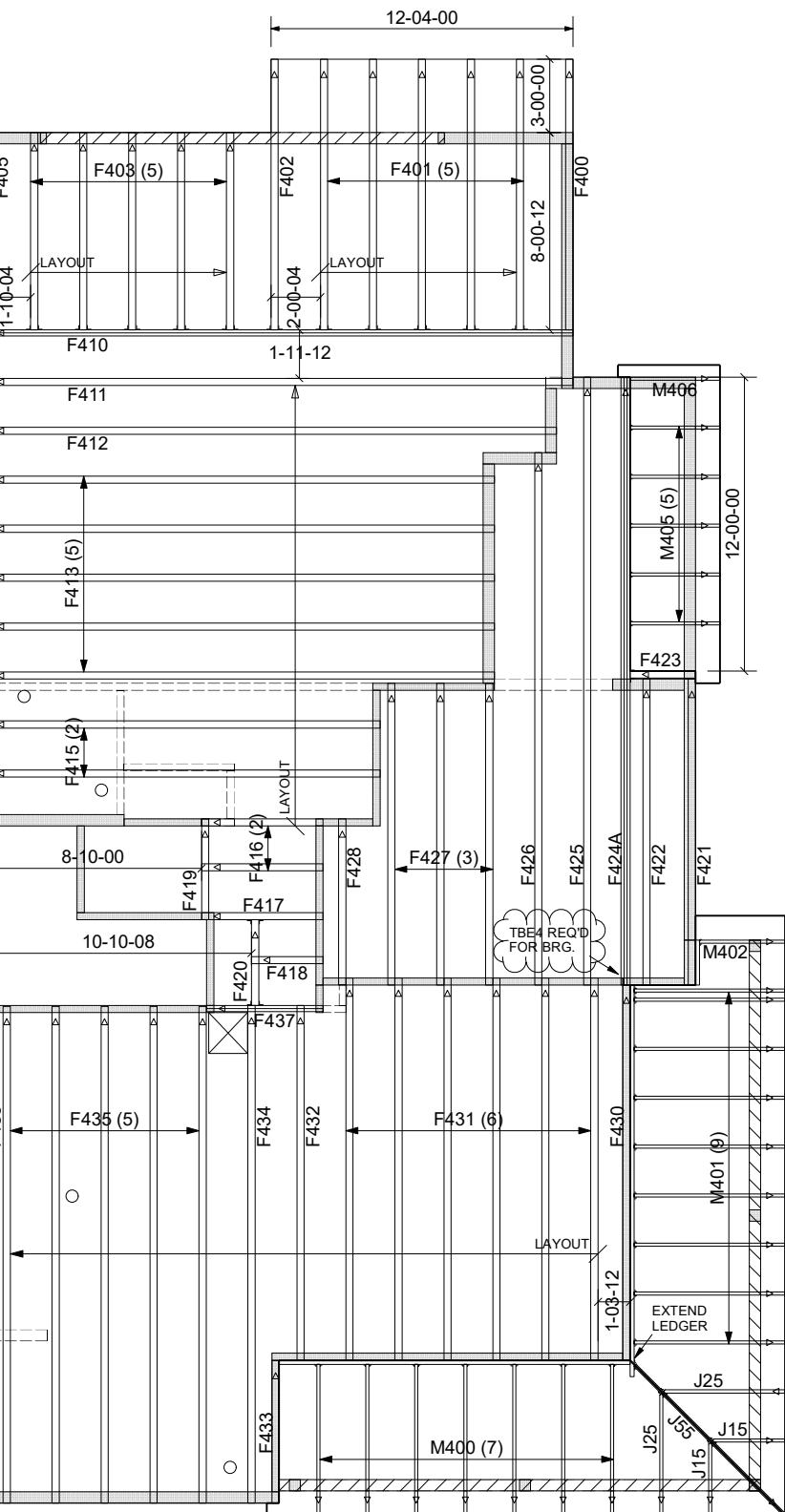
WARNING:
Trusses ARE NOT symmetrical.
DO NOT erect floor truss backwards, upside down or out of order!



PLAN 4 - ETR4-2-29 A



PLAN 1 - ETR3-2-21 A



PLAN 4 - ETR4-2-29 A

4 PLEX- EL. A- FARMHOUSE

TRUSS NOTES:
1. < INDICATES LEFT END OF TRUSS
2. WALL TOP PLATES ASSUMED TO BE SPF LUMBER- SEE TRUSS DRAWINGS FOR BRG BLOCKS AND BRG. ENHANCERS
3. REFER TO GIRDER TRUSS DRAWING(S) FOR TRUSS TO TRUSS CONNECTIONS- SIMPSON HANGERS & FASTENERS
4. TRUSS LAYOUT CAN BE MODIFIED WITHOUT CREATING AN OVER-SPAN
5. VERIFY FLOOR LAYOUT FOR PLUMBING FROM ABOVE

TRUSS LAYOUT

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building 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. All hangers called out on this placement plan are for recommendation purposes only. Consult building designer for required hangers. The building designer is responsible for temporary and permanent bracing of the roof and floor system 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 bracing, consult "Bracing of wood trusses" available online at the Truss Plate Institute, 583 D'Onofrio Dr., Madison, WI 53179.

3-G Construction Co., Inc.
Burden Orchard - 4-Plex-A - Farmhouse

Mesa, AZ

Delta: s.e. 11/19/24 (Redlines)

Client

Job Des.

Date

Site

Scale

MADERA COMPONENT SYSTEMS, INC.
6323 W. VANBUREN STREET,
PHOENIX, ARIZONA 85043

Delta:

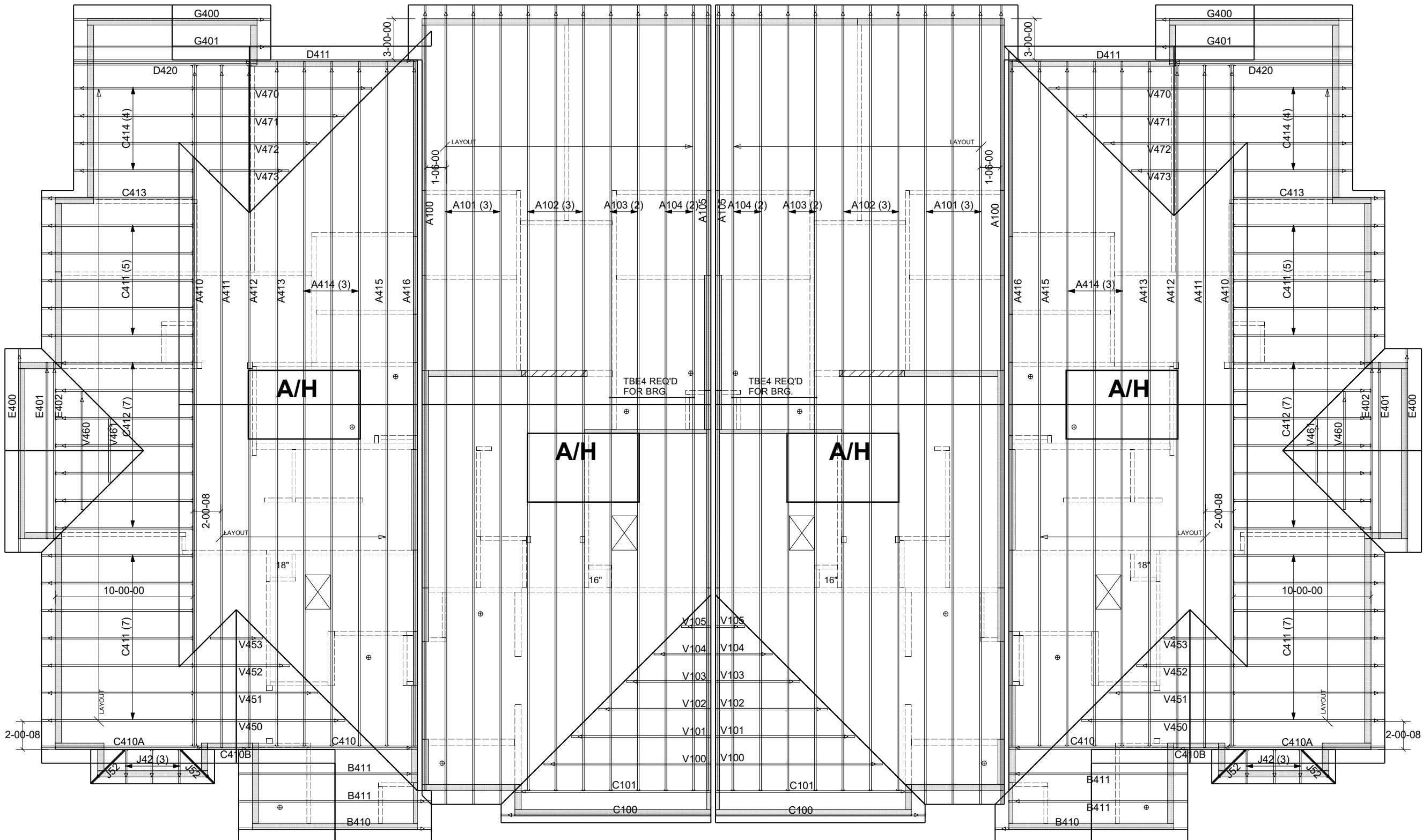
Design

Job #

24-1180

WARNING:
Trusses ARE NOT symmetrical.
DO NOT erect floor truss backwards or
out of order!

TRUSS NOTES:
1. \triangleleft INDICATES LEFT END OF TRUSS
2. WALL TOP PLATES ASSUMED TO BE SPF LUMBER-
SEE TRUSS DRAWINGS FOR BRG. BLOCKS AND BRG. ENHANCERS
3. REFER TO GIRDER TRUSS DRAWING(S) FOR TRUSS TO TRUSS
CONNECTIONS- SIMPSON HANGERS & FASTENERS
4. TRUSS LAYOUT CAN BE MODIFIED WITHOUT CREATING AN OVER-SPAN



PLAN 4 - ETR4-2-29 B

PLAN 1 - ETR3-2-21 B

PLAN 1 - ETR3-2-21 B

PLAN 4 - ETR4-2-29 B

4 PLEX- EL. B- DESERT RANCH

TRUSS LAYOUT

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building 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. All hangers called out on this placement plan are for recommendation purposes only. Consult building designer for required hangers. The building designer is responsible for temporary and permanent bracing of the roof and floor system 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 bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onofrio Dr., Madison, WI 53179.

Mesa, AZ

Burden Orchard - 4-Plex-B - Desert Ranch

Delta:

3-G Construction Co., Inc.

Delta:

NTS

Date

Design

Site

Scale

Client

Job Des.

Site

Scale

Delta: s.e. 11/19/24 (Redlines)

Delta: s.e. 4/22/24 (Redlines)

Delta: s.e. 4/22/24 (Redlines)

Delta: s.e. 11/20/24 (Redlines)

Delta: s.e. 11



MiTek, Inc.
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571

Re: 24-1180-E
4-Plex-A - Farmhouse-Roof

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Madera-Phoenix,Az.

Pages or sheets covered by this seal: R85443081 thru R85443245

My license renewal date for the state of Arizona is June 30, 2026.

Arizona COA: 11906-0

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



November 20,2024

Baxter, David

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 24-1180-E	Truss A100	Truss Type COMMON SUPPORTED GAB	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443081
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:20 2024 Page 2
ID:3mCmX7wpmmbw7h639aarmzZihj-03YPvwpVigOq?ygxnok8fq_l5zOLOGVDylnf9yHHXT

NOTES-

- 9) This truss has been designed for a total drag load of 1700 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 56-2-0 for 30.3 plf.



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/TP1 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.sbcsccomponents.com)

Job 24-1180-E	Truss A101	Truss Type COMMON	Qty 24	Ply 1	4-Plex-A - Farmhouse-Roof	R85443082
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:20 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-03YPvwpVigQq?ygnok8fq_l5zNiO9EDyxlnf9yHHT

-1-0-0 5-9-0 12-10-0 20-0-4 25-9-12 28-1-0 30-4-4 36-1-12 43-4-0 50-5-0 56-2-0 57-2-0
1-0-0 5-9-0 7-1-0 7-2-4 5-9-8 2-3-4 2-3-4 5-9-8 7-2-4 7-1-0 5-9-0 1-0-0

Scale = 1:94.6

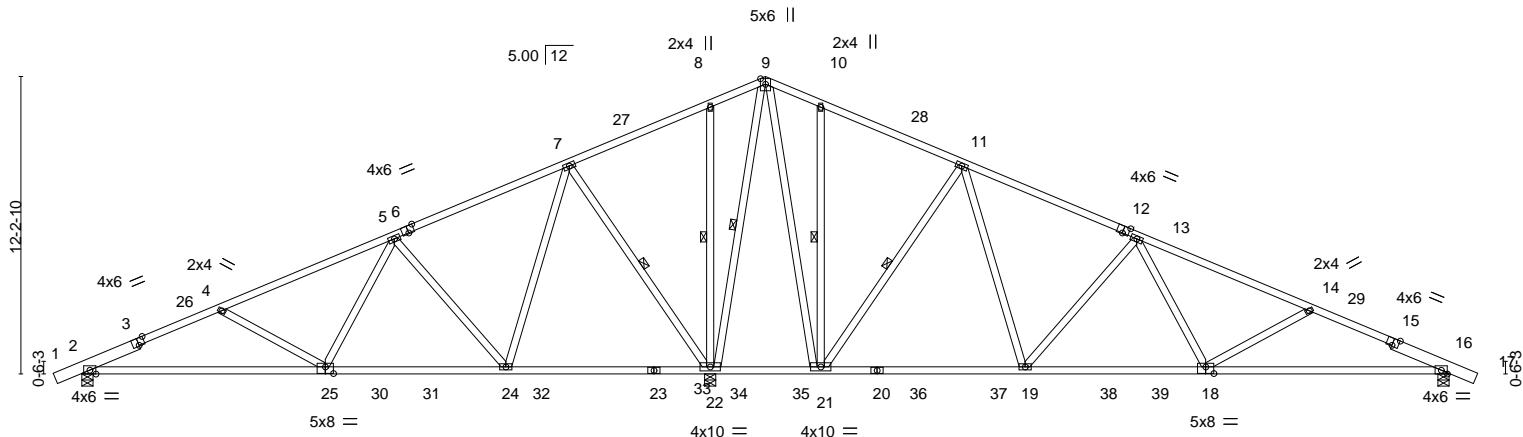


Plate Offsets (X,Y)-- [3:0-3-0,Edge], [6:0-3-0,Edge], [12:0-3-0,Edge], [15:0-3-0,Edge], [18:0-4-0,0-3-4], [25:0-4-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.56	Vert(LL)	-0.24	16-18	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.70	Vert(CT)	-0.43	16-18	>838	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.03	16	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05	18-19	>999	240	Weight: 277 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
1-3,15-17: 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
9-21,9-22: 2x4 SPF 1650F 1.5E
13-19,13-18,14-18,5-24,5-25,4-25: 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 10-21, 11-21, 9-22, 8-22, 7-22

REACTIONS. (size) 22=0-5-8, 16=0-5-8, 2=0-5-8

Max Horz 2=-250(LC 10)

Max Uplift 22=-467(LC 12), 16=-159(LC 12), 2=-121(LC 12)

Max Grav 22=3373(LC 17), 16=1017(LC 18), 2=709(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-1013/180, 4-5=-674/98, 5-7=0/458, 7-8=-68/1336, 8-9=0/1265, 9-10=0/635,

10-11=0/668, 11-13=-568/159, 13-14=-1324/194, 14-16=-1669/272

BOT CHORD 2-25=-103/989, 24-25=-184/360, 22-24=-683/255, 21-22=-790/336, 18-19=-14/910,

16-18=-169/1459

WEBS 9-21=-334/1446, 10-21=-270/182, 11-21=-1128/244, 11-19=-92/947, 13-19=-799/196,

13-18=-14/518, 14-18=-381/182, 9-22=-2107/278, 8-22=-302/187, 7-22=-1123/243,

7-24=-92/953, 5-24=-820/199, 5-25=-19/557, 4-25=-434/190

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 4-6-5, Interior(1) 4-6-5 to 28-1-0, Exterior(2R) 28-1-0 to 33-8-6, Interior(1) 33-8-6 to 57-3-1 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) All plates are 3x6 MT20 unless otherwise indicated.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 467 lb uplift at joint 22, 159 lb uplift at joint 16 and 121 lb uplift at joint 2.

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.



EXPIRES: Jun 30, 2026
November 20,2024

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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

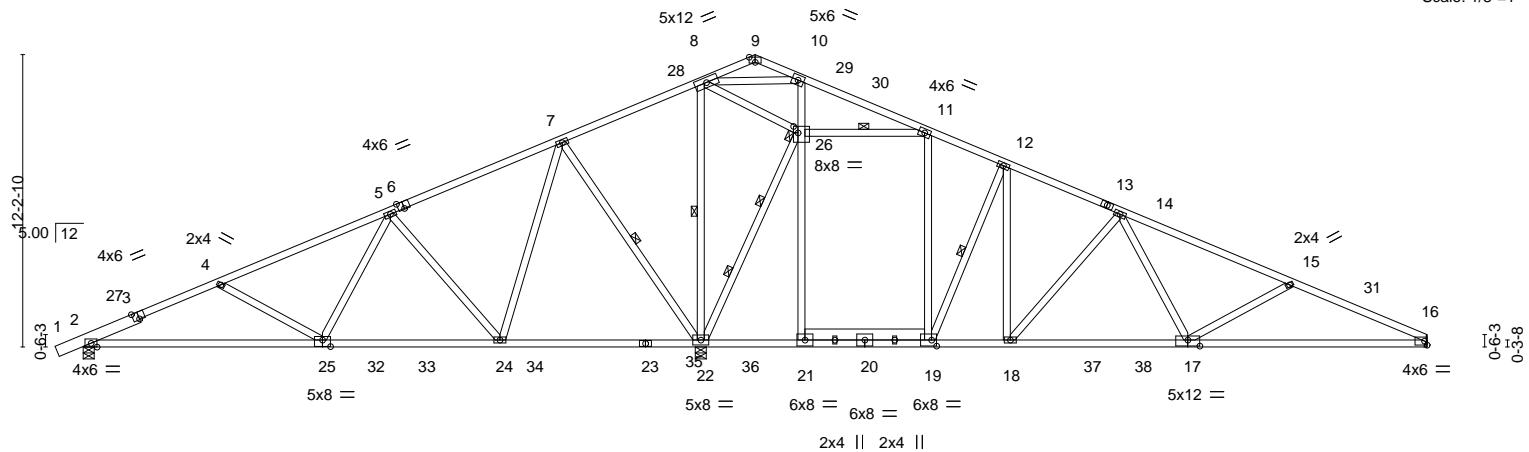
Job 24-1180-E	Truss A102	Truss Type COMMON	Qty 9	Ply 1	4-Plex-A - Farmhouse-Roof	R85443083
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:21 2024 Page 1

-1-0-0 5-9-0 | 12-10-0 7-1-0 | 20-0-4 7-2-4 | 25-9-12 5-9-8 | 28-1-0 30-0-4 2-3-4 1-11-4 | 35-3-12 5-3-8 | 38-7-4 3-3-8 | 43-4-0 4-8-12 | 50-5-0 7-1-0 | 56-2-0 5-9-0

Scale: 1/8"=1"



| 10-0-0 | 17-5-0 | 25-9-12 | 30-0-4 | 35-3-12 | 38-7-4 | 46-2-0 | 56-2-0 |

| 10-0-0 | 7-5-0 | 8-4-12 | 4-2-8 | 5-3-8 | 3-3-8 | 7-6-12 | 10-0-0 |

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [6:0-3-0,Edge], [9:0-3-0,Edge], [17:0-6-0,0-3-0], [19:0-2-8,0-3-0], [25:0-4-0,0-3-4], [26:0-2-4,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.96	Vert(LL)	-0.28	16-17	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.82	Vert(CT)	-0.54	16-17	>669	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.04	16	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.12	18-19	>999	240	Weight: 287 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2 *Except*
 1-3: 2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF No.2 *Except*
 19-21: 2x6 SPF 1650F 1.5E
 WEBS 2x4 SPF No.2 *Except*
 14-18,14-17,15-17,5-24,5-25,4-25,11-26,8-26: 2x4 HF/SPF Stud/Std

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 8-22, 7-22, 11-26, 12-19
 2 Rows at 1/3 pts 22-26
 JOINTS 1 Brace at Jt(s): 26

REACTIONS. (size) 16=Mechanical, 22=0-5-8, 2=0-5-8

Max Horz 2=175(LC 11)

Max Uplift 16=-96(LC 12), 22=-320(LC 12), 2=-135(LC 12)

Max Grav 16=925(LC 26), 22=3522(LC 19), 2=698(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-989/190, 4-5=-647/118, 5-7=0/469, 7-8=-29/1323, 10-11=-340/2707,
 12-14=-600/111, 14-15=-1391/157, 15-16=-1721/246

BOT CHORD 2-25=-120/866, 24-25=-154/333, 22-24=-636/203, 18-19=0/500, 17-18=0/959,

16-17=-169/1539

WEBS 14-18=-738/173, 14-17=-21/580, 15-17=-442/206, 8-22=-228/269, 7-22=-1058/233,
 7-24=-91/911, 5-24=-765/195, 5-25=-13/536, 4-25=-424/179, 21-26=0/254,
 10-26=-1475/129, 12-18=-97/744, 11-26=-2516/406, 22-26=-2830/307, 8-26=-1553/333,
 8-10=-241/2250, 12-19=-864/179, 11-19=-119/889

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 28-1-0, Exterior(2R) 28-1-0 to 31-1-0, Interior(1) 31-1-0 to 56-1-4 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
- 150.0lb AC unit load placed on the top chord, 31-4-0 from left end, supported at two points, 2-6-0 apart.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 16, 320 lb uplift at joint 22 and 135 lb uplift at joint 2.
- 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.



EXPIRES: Jun 30, 2026
 November 20,2024

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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MiTek
 400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

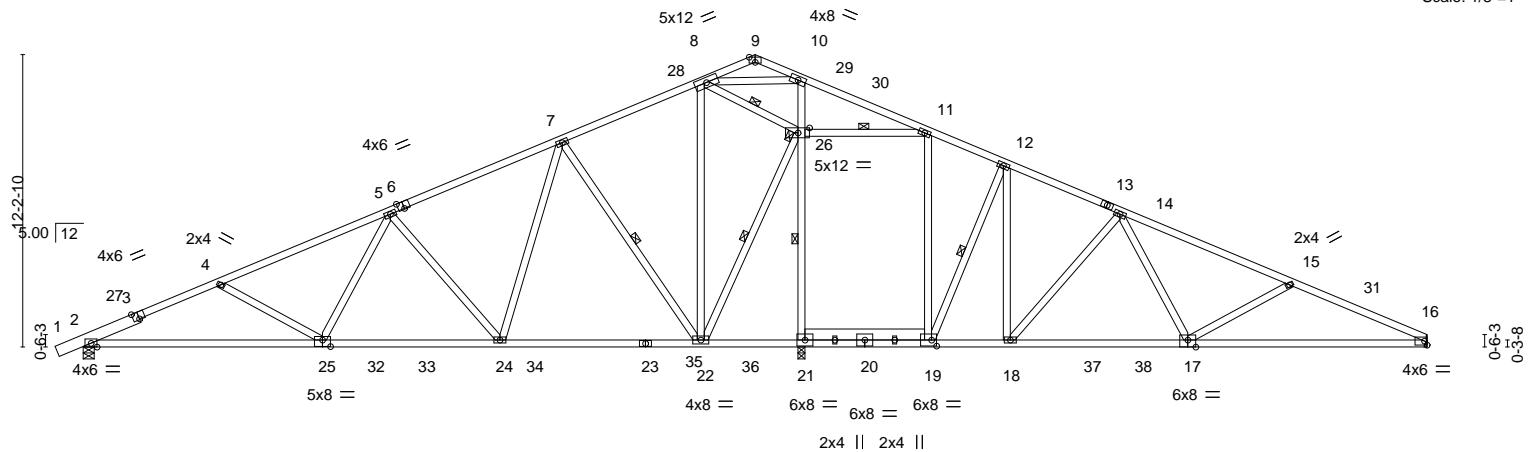
Job 24-1180-E	Truss A103	Truss Type COMMON	Qty 6	Ply 1	4-Plex-A - Farmhouse-Roof	R85443084
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:22 2024 Page 1

-1-0-0 5-9-0 | 12-10-0 7-1-0 | 20-0-4 7-2-4 | 25-9-12 5-9-8 | 28-1-0 2-3-4 30-0-4 1-11-4 | 35-3-12 5-3-8 | 38-7-4 3-3-8 | 43-4-0 4-8-12 | 50-5-0 7-1-0 | 56-2-0 5-9-0

Scale: 1/8"=1'



| 10-0-0 | 17-5-0 | 25-9-12 | 30-0-4 | 35-3-12 | 38-7-4 | 46-2-0 | 56-2-0 |

| 10-0-0 | 7-5-0 | 8-4-12 | 4-2-8 | 5-3-8 | 3-3-8 | 7-6-12 | 10-0-0 |

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [6:0-3-0,Edge], [9:0-3-0,Edge], [17:0-4-0,Edge], [19:0-2-8,0-3-0], [25:0-4-0,0-3-4], [26:0-5-12,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.78	Vert(LL)	-0.28	16-17	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.53	16-17	>592	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.05	16	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.11	18-19	>999	240	Weight: 287 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-3: 2x6 SPF 1650F 1.5E, 6-9, 9-13: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
19-21: 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
14-18, 14-17, 15-17, 5-24, 5-25, 4-25, 11-26, 8-26: 2x4 HF/SPF Stud/Std
10-21: 2x4 SPF 1650F 1.5E

REACTIONS. (size) 16=Mechanical, 2=0-5-8, 21=(0-3-8 + TBE4 Simpson Strong-Tie) (req. 0-5-5)

Max Horz 2=175(LC 11)

Max Uplift 16=83(LC 12), 2=169(LC 12), 21=299(LC 12)

Max Grav 16=742(LC 26), 2=994(LC 25), 21=3391(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.TOP CHORD 2-4=-1658/274, 4-5=-1354/206, 5-7=-636/181, 7-8=0/511, 10-11=-368/3159,
11-12=0/556, 12-14=-210/297, 14-15=-942/121, 15-16=-1286/211BOT CHORD 2-25=-197/1531, 24-25=-43/1011, 22-24=-59/272, 21-22=-437/235, 19-21=-459/238,
18-19=-256/166, 17-18=-16/557, 16-17=-137/1144WEBS 14-18=-745/173, 14-17=-22/592, 15-17=-461/207, 8-22=-159/1130, 7-22=-1051/232,
7-24=-91/906, 5-24=-747/193, 5-25=-9/497, 4-25=-373/173, 21-26=-3126/355,
10-26=-1665/144, 12-18=-98/760, 11-26=-2472/402, 22-26=-480/370, 8-26=-2847/467,
8-10=-269/2641, 11-19=-118/881, 12-19=-884/180**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 28-1-0, Exterior(2R) 28-1-0 to 31-1-0, Interior(1) 31-1-0 to 56-1-4 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
- 150.0lb AC unit load placed on the top chord, 31-4-0 from left end, supported at two points, 2-6-0 apart.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 16 and 169 lb uplift at joint 2.
- TBE4 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21. 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/TPI1.



EXPIRES: Jun 30, 2026

November 20, 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/TPI1 Quality Criteria and DSB-22** available from the Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

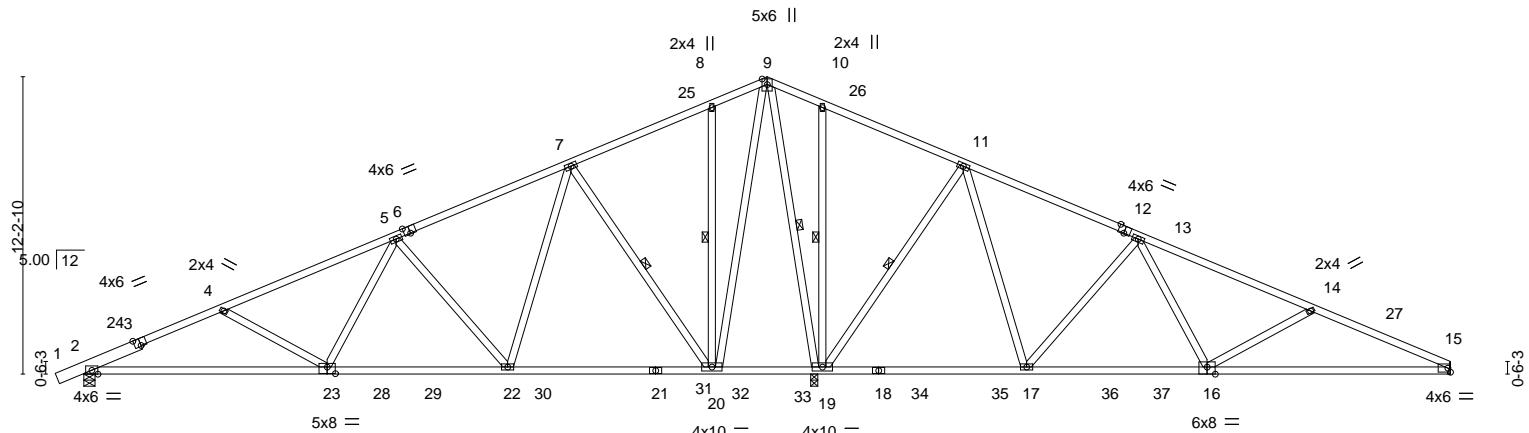
Job 24-1180-E	Truss A104	Truss Type COMMON	Qty 6	Ply 1	4-Plex-A - Farmhouse-Roof	R85443085
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Madera Comp Az, PHOENIX, AZ - 85043,

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-1-0-0 5-9-0 12-10-0 20-0-4 25-9-12 28-1-0, 30-4-4 36-1-12 43-4-0 50-5-0 56-2-0
1-0-0 5-9-0 7-1-0 7-2-4 5-9-8 2-3-4 2-3-4 5-9-8 7-2-4 7-1-0 5-9-0

Scale = 1:94.7



10-0-0 17-5-0 25-9-12 30-2-0 30-4-4 38-9-0 46-2-0 56-2-0
10-0-0 7-5-0 8-4-12 4-4-0 0-2-4 8-4-12 7-5-0 10-0-0

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [6:0-3-0,Edge], [12:0-3-0,Edge], [16:0-4-0,Edge], [23:0-4-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.57	Vert(LL)	-0.28	15-16	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.70	Vert(CT)	-0.50	15-16	>616	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.03	19	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05	22-23	>999	240	Weight: 273 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
1-3: 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
9-19, 9-20: 2x4 SPF 1650F 1.5E
13-17, 13-16, 14-16, 5-22, 5-23, 4-23: 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-19, 10-19, 11-19, 8-20, 7-20

REACTIONS. (size) 15=Mechanical, 19=(0-3-8 + TBE4 Simpson Strong-Tie) (req. 0-5-5), 2=0-5-8
Max Horz 2=175(LC 11)
Max Uplift 15=-69(LC 12), 19=-477(LC 12), 2=-155(LC 12)
Max Grav 15=636(LC 26), 19=3397(LC 19), 2=957(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1574/242, 4-5=-1266/173, 5-7=-544/146, 7-8=0/632, 8-9=0/585, 9-10=0/1269,
10-11=-72/1325, 11-13=-0/495, 13-14=-680/88, 14-15=-1049/174
BOT CHORD 2-23=-169/1434, 22-23=-12/904, 19-20=-793/327, 17-19=-601/238, 16-17=-156/349,
15-16=-103/920
WEBS 9-19=-2096/259, 10-19=-295/146, 11-19=-1061/234, 11-17=-93/913, 13-17=-777/200,
13-16=-25/569, 14-16=-458/202, 9-20=-284/1365, 8-20=-270/142, 7-20=-1061/233,
7-22=-90/905, 5-22=-748/194, 5-23=-10/503, 4-23=-382/175

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 28-1-0, Exterior(2R) 28-1-0 to 31-1-0, Interior(1) 31-1-0 to 56-1-4 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
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 15 and 155 lb uplift at joint 2.
- 8) TBE4 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19. This connection is for uplift only and does not consider lateral forces.
- 9) 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.



EXPIRES: Jun 30, 2026
November 20, 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/TPI1 Quality Criteria](#) and [DSB-22](#) available from the Truss Plate Institute (www.tpiinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss A105	Truss Type COMMON	Qty 3	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443086
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Madera Comp Az, PHOENIX, AZ - 85043,

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-1-0-0 5-9-0 | 12-10-0 | 20-0-4 | 25-9-12 | 28-1-0 30-4-4 | 36-1-12 36-7-12 | 43-4-0 | 50-5-0 | 56-2-0
1-0-0 5-9-0 | 7-1-0 | 7-2-4 | 5-9-8 | 2-3-4 2-3-4 | 5-9-8 0-6-0 | 6-8-4 | 7-1-0 | 5-9-0

Scale: 1/8"=1'

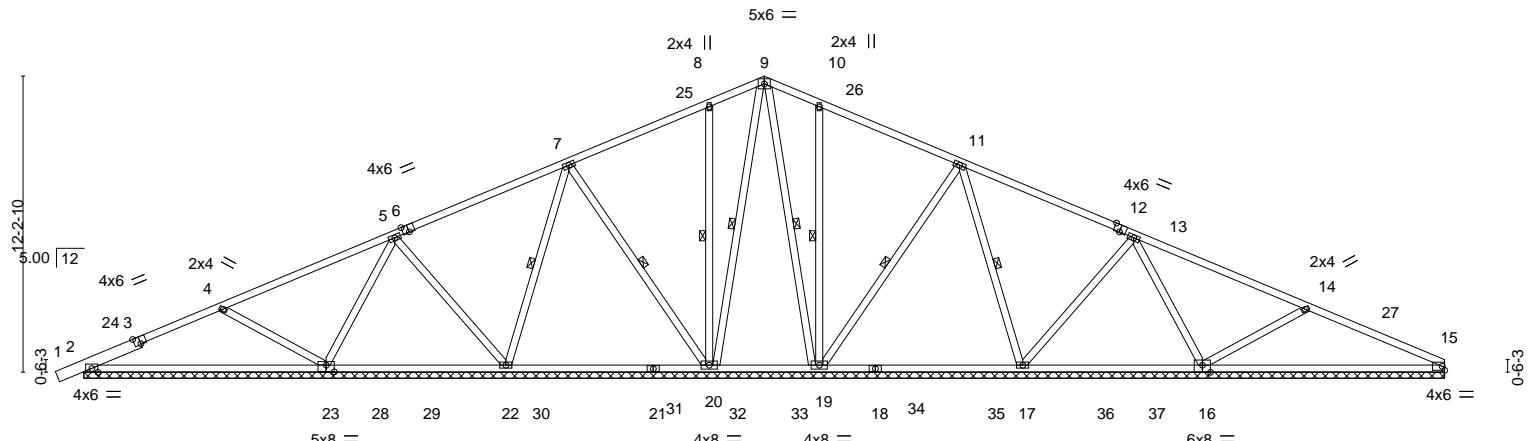


Plate Offsets (X Y) - [3-0-3-0 Edge] [6-0-3-0 Edge] [12-0-3-0 Edge] [16-0-4-0 Edge] [23-0-4-0-0-3-4]

Plate Spacing (A, T)	[3.0-3.0,Edge], [6.0-3.0,Edge], [12.0-3.0,Edge], [18.0-4.0,Edge], [25.0-4.0,Edge]
LOADING (psf)	SPACING- 2-0-0
TCLL 16.0	Plate Grip DOL 1.25
TCDL 14.0	Lumber DOL 1.25
BCLL 0.0 *	Rep Stress Incr NO
BCDL 7.0	Code IRC2018/TPI2014
	CSI.
	TC 0.56
	BC 0.67
	WB 0.50
	Matrix-S
	DEFL.
	in (loc) l/defl L/d
	Vert(LL) 0.01 1 n/r 120
	Vert(CT) 0.03 1 n/r 120
	Horz(CT) 0.01 19 n/a n/a
	PLATES
	MT20
	GRIP
	185/144
	Weight: 273 lb
	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
1-3: 2x6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
BOT CHORD 2x4 SPF No.2	WEBS 1 Row at midpt 9-19, 10-19, 11-19, 11-17, 9-20, 8-20, 7-20 , 7-22
WEBS 2x4 SPF No.2 *Except*	13-17, 13-16, 14-16, 5-22, 5-23, 4-23: 2x4 HF/SPF Stud/Std

REACTIONS. All bearings 56-2-0.

(lb) - Max Horz. 2=175(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) except 15=-185(LC 36), 16=-405(LC 36), 19=-169(LC 35), 17=-178(LC 36), 20=-170(LC 36), 22=-181(LC 35), 23=-392(LC 35), 2=-233(LC 35)

Max Grav All reactions 250 lb or less at joint(s) except 15=331(LC 18), 16=857(LC 18), 19=653(LC 18), 17=625(LC 18), 20=674(LC 17), 22=652(LC 17), 23=787(LC 17), 2=418(LC 49)

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.
WEBS	1 Row at midpt 9-19, 10-19, 11-19, 11-17, 9-20, 8-20, 7-20 . 7-22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-598/414, 4-5=-256/267, 5-7=-323/324, 7-8=-273/337, 10-11=-272/347,
11-13=-273/308, 13-14=-213/273, 14-15=-546/421

BOT CHORD 2-23=-355/586, 22-23=-222/295, 20-22=-249/330, 19-20=-228/296, 17-19=-257/333,

$$16-17=-225/284, \quad 15-16=-353/455$$

WEBS 10-19=-270/142, 11-19=-366/333, 11-17=-467/345, 13-17=-362/336, 13-16=-612/438,
14-16=-488/215, 8-20=-271/143, 7-20=-379/338, 7-22=-451/339, 5-22=-397/345,
5-23=-568/431, 4-23=-477/207

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=7ft; Cat II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 28-1-0, Exterior(2R) 28-1-0 to 31-1-0, Interior(1) 31-1-0 to 56-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 3x6 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 15, 405 lb uplift at joint 16, 169 lb uplift at joint 19, 178 lb uplift at joint 17, 170 lb uplift at joint 20, 181 lb uplift at joint 22, 392 lb uplift at joint 23 and 23 lb uplift at joint 2.
 - 8) 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.



EXPIRES: Jun 30, 2026
November 20, 2024

Continued on page 2

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 REV. 1/2/2023 BEFORE USE.
Design valid for use only with MTiTek® 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/TP1 Quality Criteria and DSE-22** available from Truss Plate Institute (www.tpinst.org) and **RCSI Building Component Safety Information**, available from the Structural Building Component Association (www.sbccomponents.com).

The MiTek logo consists of the word "MiTek" in a bold, blue, sans-serif font. A registered trademark symbol (®) is positioned in the top right corner of the letter "k".

Job 24-1180-E	Truss A105	Truss Type COMMON	Qty 3	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443086
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Madera Comp Az, PHOENIX, AZ - 85043,

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ID:3mCmX7wpmmbwY7h639aarmzZihj-vrnwkHs?mvvGUZ_i0do4pg9R?alAK4yptZj?owyHHXP

NOTES-

- 9) This truss has been designed for a total drag load of 1700 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 56-2-0 for 30.3 plf.



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 24-1180-E	Truss A400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443087
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Madera Comp Az, PHOENIX, AZ - 85043,

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8-3-8	14-11-8	21-7-8	24-4-0
8-3-8	6-8-0	6-8-0	2-8-8

R85443087

QUALIFIED BUILDING DESIGNER OR PROJECT ENGINEER SHALL REVIEW THE INPUT LENGTH AND PLACEMENT OF CONNECTION TO TRANSFER LATERAL FORCES TO THE SUPPORTING STRUCTURE AS STATED IN THE DRAG LOAD NOTE BELOW.

Scale = 1:77.7

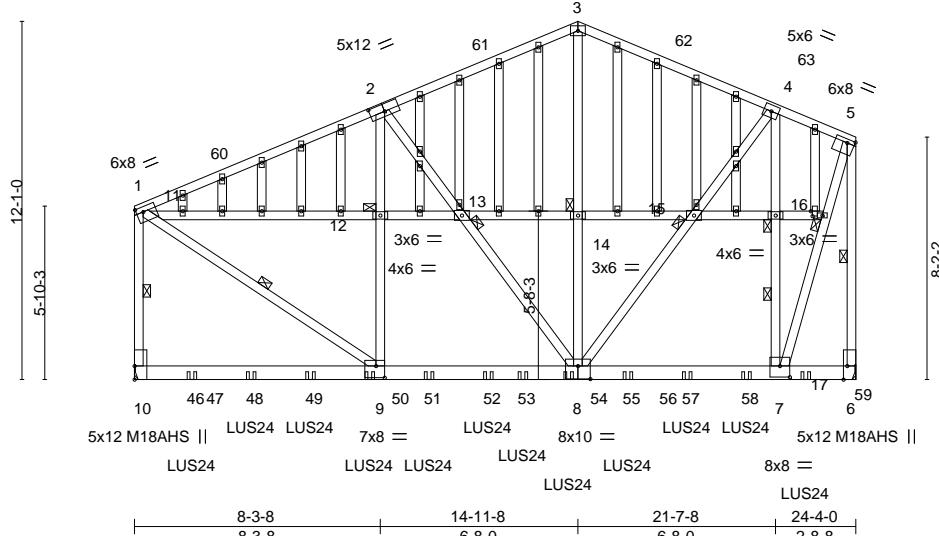


Plate Offsets (X,Y)-- [1:0-2-12,0-2-0], [2:0-6-0,0-3-0], [5:0-3-0,0-1-8], [6:0-5-8,Edge], [7:0-4-0,0-4-8], [8:0-5-0,0-5-4], [9:0-3-8,0-4-12], [44:0-2-0,0-0-11]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.95	Vert(LL)	-0.12	9-10	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.71	Vert(CT)	-0.29	9-10	>999	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.69	Horz(CT)	0.02	6	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.15	9-10	>999	240	Weight: 246 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2 *Except*
	1-2: 2x4 SPF 1650F 1.5E
BOT CHORD	2x6 SPF 1650F 1.5E
WEBS	2x4 SPF No.2 *Except*
	5-6: 2x4 SPF 1650F 1.5E
OTHERS	12-13,13-14,14-15,15-16,16-17: 2x4 HF/SPF Stud/Std 2x4 SPF Utility

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-16, 1-10, 1-9, 5-6
JOINTS	1 Brace at Jt(s): 12, 13, 14, 15, 16, 17

REACTIONS.

(size) 6=Mechanical, 10=Mechanical
 Max Horz 10=344(LC 34)
 Max Uplift 6=-1033(LC 36), 10=-1132(LC 35)
 Max Grav 6=3241(LC 65), 10=2951(LC 65)

FORCES.

FORCES, (b)	Max. Comp./Max. Tens. - API 10330 E20 (b) & 10330 except where shown.
TOP CHORD	1-10=-2464/1052, 5-6=-3263/1138, 1-2=-2362/1033, 2-3=-1986/829, 3-4=-1967/734, 4-5=-1091/430
BOT CHORD	9-10=-747/542, 8-9=-870/2150, 7-8=-585/954
WEBS	9-12=-708/407, 2-12=-708/495, 2-13=-649/627, 8-13=-759/630, 8-14=-306/1045, 3-14=-306/1169, 8-15=-707/1295, 4-15=-714/1416, 7-16=-1808/957, 4-16=-1760/957, 1-11=-1011/2499, 9-11=-1019/2438, 7-17=-1097/2986, 5-17=-1106/3030

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 14-11-8, Exterior(2R) 14-11-8 to 17-11-8, Interior(1) 17-11-8 to 24-2-4 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
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 1-4-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1033 lb uplift at joint 6 and 1132 lb uplift at joint 10.
 - 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.



EXPIRES: Jun 30, 2026
November 20, 2024



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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22**, available from Truss Plate Institute (www.tpinst.org) and **RCSI Building Component Safety Information**, available from the Structural Building Components Association (www.sbcassociates.com).

The MiTek logo consists of the word "MiTek" in a bold, blue, sans-serif font. A registered trademark symbol (®) is positioned at the top right corner of the letter "k".

Job 24-1180-E	Truss A400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443087
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:26 2024 Page 2
ID:3mCmX7wpmbwy7h639aarmzzZihj-rDvh9ztGHW9_jt8572rYu5EhROQoxX5KtC5tpyHHXN**NOTES-**

- 12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 13) This truss has been designed for a total drag load of 1000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 24-4-0 for 41.1 plf.
 14) Use Simpson Strong-Tie LUS24 (4-10dx1 1/2 Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 22-7-12 to connect truss(es) to back face of bottom chord.
 15) Fill all nail holes where hanger is in contact with lumber.
 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 6-10=-14, 1-3=-60, 3-5=-60, 16-17=-20

Concentrated Loads (lb)

Vert: 46=-259(B) 48=-259(B) 49=-259(B) 50=-259(B) 51=-259(B) 52=-298(B) 53=-359(B) 54=-359(B) 55=-359(B) 57=-359(B) 58=-359(B) 59=-359(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 10-47=-44, 9-47=-29, 9-52=-44, 52-56=-29, 7-56=-44, 6-7=-29, 1-3=-52, 3-5=-52, 16-17=-20

Concentrated Loads (lb)

Vert: 46=-230(B) 48=-230(B) 49=-230(B) 50=-230(B) 51=-230(B) 52=-265(B) 53=-319(B) 54=-319(B) 55=-319(B) 57=-319(B) 58=-319(B) 59=-319(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 6-10=-34, 1-3=-28, 3-5=-28, 16-17=-20

Concentrated Loads (lb)

Vert: 46=-197(B) 48=-197(B) 49=-197(B) 50=-197(B) 51=-197(B) 52=-234(B) 53=-280(B) 54=-280(B) 55=-280(B) 57=-280(B) 58=-280(B) 59=-280(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-60=27, 3-60=24, 3-62=33, 5-62=24, 16-17=-20

Horz: 1-10=26, 5-6=40, 1-60=-39, 3-60=-36, 3-62=45, 5-62=36

Concentrated Loads (lb)

Vert: 46=84(B) 48=84(B) 49=84(B) 50=84(B) 51=84(B) 52=73(B) 53=75(B) 54=75(B) 55=75(B) 57=75(B) 58=75(B) 59=75(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-61=24, 3-61=33, 3-63=24, 5-63=27, 16-17=-20

Horz: 1-10=41, 5-6=25, 1-61=-36, 3-61=-45, 3-63=36, 5-63=39

Concentrated Loads (lb)

Vert: 46=84(B) 48=84(B) 49=84(B) 50=84(B) 51=84(B) 52=73(B) 53=75(B) 54=75(B) 55=75(B) 57=75(B) 58=75(B) 59=75(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-14, 1-3=-44, 3-5=-44, 16-17=-20

Horz: 1-10=38, 5-6=28, 1-3=16, 3-5=16

Concentrated Loads (lb)

Vert: 46=90(B) 48=90(B) 49=90(B) 50=90(B) 51=90(B) 52=78(B) 53=81(B) 54=81(B) 55=81(B) 57=81(B) 58=81(B) 59=81(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-14, 1-3=-44, 3-5=-44, 16-17=-20

Horz: 1-10=30, 5-6=37, 1-3=16, 3-5=16

Concentrated Loads (lb)

Vert: 46=90(B) 48=90(B) 49=90(B) 50=90(B) 51=90(B) 52=78(B) 53=81(B) 54=81(B) 55=81(B) 57=81(B) 58=81(B) 59=81(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-3=10, 3-5=11, 16-17=-20

Horz: 1-10=16, 5-6=20, 1-3=22, 3-5=23

Concentrated Loads (lb)

Vert: 46=84(B) 48=84(B) 49=84(B) 50=84(B) 51=84(B) 52=73(B) 53=75(B) 54=75(B) 55=75(B) 57=75(B) 58=75(B) 59=75(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-3=11, 3-5=10, 16-17=-20

Horz: 1-10=20, 5-6=16, 1-3=23, 3-5=22

Concentrated Loads (lb)

Vert: 46=84(B) 48=84(B) 49=84(B) 50=84(B) 51=84(B) 52=73(B) 53=75(B) 54=75(B) 55=75(B) 57=75(B) 58=75(B) 59=75(B)

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

Job 24-1180-E	Truss A400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443087
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:26 2024 Page 3
ID:3mCmX7wpmmbwy7h639aarmzZihj-rDvh9ztGHW9_jt8572rYu5EhROQoxX5KtC5tpyHHXN**LOAD CASE(S)** Standard

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads

Vert: 6-10=-14, 1-3=-31, 3-5=-17, 16-17=-20

Horz: 1-10=28, 5-6=8, 1-3=3, 3-5=11

Concentrated Loads (lb)

Vert: 46=90(B) 48=90(B) 49=90(B) 50=90(B) 51=90(B) 52=78(B) 53=81(B) 54=81(B) 55=81(B) 57=81(B) 58=81(B) 59=81(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-14, 1-3=-17, 3-5=-31, 16-17=-20

Horz: 1-10=8, 5-6=28, 1-3=-11, 3-5=3

Concentrated Loads (lb)

Vert: 46=90(B) 48=90(B) 49=90(B) 50=90(B) 51=90(B) 52=78(B) 53=81(B) 54=81(B) 55=81(B) 57=81(B) 58=81(B) 59=81(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-3=20, 3-5=20, 16-17=-20

Horz: 1-10=-25, 5-6=25, 1-3=-32, 3-5=32

Concentrated Loads (lb)

Vert: 46=84(B) 48=84(B) 49=84(B) 50=84(B) 51=84(B) 52=73(B) 53=75(B) 54=75(B) 55=75(B) 57=75(B) 58=75(B) 59=75(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-3=8, 3-5=8, 16-17=-20

Horz: 1-10=-25, 5-6=25, 1-3=-20, 3-5=20

Concentrated Loads (lb)

Vert: 46=84(B) 48=84(B) 49=84(B) 50=84(B) 51=84(B) 52=73(B) 53=75(B) 54=75(B) 55=75(B) 57=75(B) 58=75(B) 59=75(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-14, 1-3=-29, 3-5=-29, 16-17=-20

Horz: 1-10=-14, 5-6=14, 1-3=1, 3-5=-1

Concentrated Loads (lb)

Vert: 46=90(B) 48=90(B) 49=90(B) 50=90(B) 51=90(B) 52=78(B) 53=81(B) 54=81(B) 55=81(B) 57=81(B) 58=81(B) 59=81(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-14, 1-3=-29, 3-5=-29, 16-17=-20

Horz: 1-10=-14, 5-6=14, 1-3=1, 3-5=-1

Concentrated Loads (lb)

Vert: 46=90(B) 48=90(B) 49=90(B) 50=90(B) 51=90(B) 52=78(B) 53=81(B) 54=81(B) 55=81(B) 57=81(B) 58=81(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 10-47=-54, 9-47=-34, 9-52=-54, 52-56=-34, 7-56=-54, 6-7=-34, 1-3=-28, 3-5=-28, 16-17=-20

Concentrated Loads (lb)

Vert: 46=-142(B) 48=-142(B) 49=-142(B) 50=-142(B) 51=-142(B) 52=-165(B) 53=-198(B) 54=-198(B) 55=-198(B)

57=-198(B) 58=-198(B) 59=-198(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 10-47=-44, 9-47=-29, 9-52=-44, 52-56=-29, 7-56=-44, 6-7=-29, 1-3=-55, 3-5=-44, 16-17=-20

Horz: 1-10=21, 5-6=6, 1-3=3, 3-5=8

Concentrated Loads (lb)

Vert: 46=52(B) 48=52(B) 49=52(B) 50=52(B) 51=52(B) 52=40(B) 53=38(B) 54=38(B) 55=38(B) 57=38(B) 58=38(B)

59=38(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 10-47=-44, 9-47=-29, 9-52=-44, 52-56=-29, 7-56=-44, 6-7=-29, 1-3=-44, 3-5=-55, 16-17=-20

Horz: 1-10=-6, 5-6=21, 1-3=-8, 3-5=-3

Continued on page 4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2023 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/TP1 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.sbcsccomponents.com)

Job 24-1180-E	Truss A400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443087
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:26 2024 Page 4
ID:3mCmX7wpmmbwy7h639aarmzZihj-rDvh9ztGHW9_jt8572rYu5EhROQoxX5KtC5tpyHHXN**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 46=52(B) 48=52(B) 49=52(B) 50=52(B) 51=52(B) 52=40(B) 53=38(B) 54=38(B) 55=38(B) 57=38(B) 58=38(B) 59=38(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 10=47=-44, 9=47=-29, 9=52=-44, 52=56=-29, 7=56=-44, 6=7=-29, 1=3=-53, 3=5=-53, 16=17=-20

Horz: 1=10=-10, 5=6=10, 1=3=1, 3=5=1

Concentrated Loads (lb)

Vert: 46=52(B) 48=52(B) 49=52(B) 50=52(B) 51=52(B) 52=40(B) 53=38(B) 54=38(B) 55=38(B) 57=38(B) 58=38(B) 59=38(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 10=47=-44, 9=47=-29, 9=52=-44, 52=56=-29, 7=56=-44, 6=7=-29, 1=3=-53, 3=5=-53, 16=17=-20

Horz: 1=10=-10, 5=6=10, 1=3=1, 3=5=1

Concentrated Loads (lb)

Vert: 46=52(B) 48=52(B) 49=52(B) 50=52(B) 51=52(B) 52=40(B) 53=38(B) 54=38(B) 55=38(B) 57=38(B) 58=38(B) 59=38(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6=10=-8, 1=3=-28, 3=5=-28, 16=17=-20

Horz: 1=10=16, 5=6=16, 1=3=16, 3=5=16

Concentrated Loads (lb)

Vert: 46=62(B) 48=62(B) 49=62(B) 50=62(B) 51=62(B) 52=48(B) 53=45(B) 54=45(B) 55=45(B) 57=45(B) 58=45(B) 59=45(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6=10=-8, 1=3=4, 3=5=4, 16=17=-20

Horz: 1=10=16, 5=6=16, 1=3=16, 3=5=16

Concentrated Loads (lb)

Vert: 46=62(B) 48=62(B) 49=62(B) 50=62(B) 51=62(B) 52=48(B) 53=45(B) 54=45(B) 55=45(B) 57=45(B) 58=45(B) 59=45(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

47) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 6=10=-14, 1=3=-60, 3=5=-28, 16=17=-20

Concentrated Loads (lb)

Vert: 46=-259(B) 48=-259(B) 49=-259(B) 50=-259(B) 51=-259(B) 52=-298(B) 53=-359(B) 54=-359(B) 55=-359(B) 57=-359(B) 58=-359(B) 59=-359(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

48) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 6=10=-14, 1=3=-28, 3=5=-60, 16=17=-20

Concentrated Loads (lb)

Vert: 46=-259(B) 48=-259(B) 49=-259(B) 50=-259(B) 51=-259(B) 52=-298(B) 53=-359(B) 54=-359(B) 55=-359(B)

57=-359(B) 58=-359(B) 59=-359(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

49) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 10=47=-44, 9=47=-29, 9=52=-44, 52=56=-29, 7=56=-44, 6=7=-29, 1=3=-52, 3=5=-28, 16=17=-20

Concentrated Loads (lb)

Vert: 46=-230(B) 48=-230(B) 49=-230(B) 50=-230(B) 51=-230(B) 52=-265(B) 53=-319(B) 54=-319(B) 55=-319(B)

57=-319(B) 58=-319(B) 59=-319(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

50) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 10=47=-44, 9=47=-29, 9=52=-44, 52=56=-29, 7=56=-44, 6=7=-29, 1=3=-28, 3=5=-52, 16=17=-20

Concentrated Loads (lb)

Vert: 46=-230(B) 48=-230(B) 49=-230(B) 50=-230(B) 51=-230(B) 52=-265(B) 53=-319(B) 54=-319(B) 55=-319(B)

57=-319(B) 58=-319(B) 59=-319(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

51) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6=10=-8, 1=60=27, 3=60=24, 3=62=33, 5=62=24, 16=17=-20

Horz: 1=10=26, 5=6=40, 1=60=39, 3=60=36, 3=62=45, 5=62=36

Concentrated Loads (lb)

Vert: 46=-224(B) 48=-224(B) 49=-224(B) 50=-224(B) 51=-224(B) 52=-225(B) 53=-259(B) 54=-259(B) 55=-259(B)

57=-259(B) 58=-259(B) 59=-259(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

Continued on page 5

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/TP1 Quality Criteria and DSB-22** available from the Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscocomponents.com)

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss A400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443087
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:26 2024 Page 5
ID:3mCmX7wpmmbwy7h639aarmzZihj-rDvh9ztGHW9_jt8572rYu5EhROQoxX5KtC5tpyHHXN**LOAD CASE(S)** Standard

52) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-61=24, 3-61=33, 3-63=24, 5-63=27, 16-17=-20
Horz: 1-10=-41, 5-6=25, 1-61=-36, 3-61=-45, 3-63=36, 5-63=39

Concentrated Loads (lb)

Vert: 46=-224(B) 48=-224(B) 49=-224(B) 50=-224(B) 51=-224(B) 52=-225(B) 53=-259(B) 54=-259(B) 55=-259(B) 57=-259(B) 58=-259(B) 59=-259(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

53) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-14, 1-3=-44, 3-5=-44, 16-17=-20

Horz: 1-10=38, 5-6=28, 1-3=16, 3-5=16

Concentrated Loads (lb)

Vert: 46=-218(B) 48=-218(B) 49=-218(B) 50=-218(B) 51=-218(B) 52=-220(B) 53=-254(B) 54=-254(B) 55=-254(B) 57=-254(B) 58=-254(B) 59=-254(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

54) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-14, 1-3=-44, 3-5=-44, 16-17=-20

Horz: 1-10=-30, 5-6=-37, 1-3=16, 3-5=16

Concentrated Loads (lb)

Vert: 46=-218(B) 48=-218(B) 49=-218(B) 50=-218(B) 51=-218(B) 52=-220(B) 53=-254(B) 54=-254(B) 55=-254(B) 57=-254(B) 58=-254(B) 59=-254(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

55) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-3=10, 3-5=11, 16-17=-20

Horz: 1-10=16, 5-6=20, 1-3=22, 3-5=23

Concentrated Loads (lb)

Vert: 46=-224(B) 48=-224(B) 49=-224(B) 50=-224(B) 51=-224(B) 52=-225(B) 53=-259(B) 54=-259(B) 55=-259(B) 57=-259(B) 58=-259(B) 59=-259(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

56) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-3=11, 3-5=10, 16-17=-20

Horz: 1-10=-20, 5-6=16, 1-3=23, 3-5=22

Concentrated Loads (lb)

Vert: 46=-224(B) 48=-224(B) 49=-224(B) 50=-224(B) 51=-224(B) 52=-225(B) 53=-259(B) 54=-259(B) 55=-259(B) 57=-259(B) 58=-259(B) 59=-259(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

57) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-14, 1-3=-31, 3-5=-17, 16-17=-20

Horz: 1-10=28, 5-6=8, 1-3=3, 3-5=11

Concentrated Loads (lb)

Vert: 46=-218(B) 48=-218(B) 49=-218(B) 50=-218(B) 51=-218(B) 52=-220(B) 53=-254(B) 54=-254(B) 55=-254(B) 57=-254(B) 58=-254(B) 59=-254(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

58) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-14, 1-3=-17, 3-5=-31, 16-17=-20

Horz: 1-10=-8, 5-6=28, 1-3=-11, 3-5=3

Concentrated Loads (lb)

Vert: 46=-218(B) 48=-218(B) 49=-218(B) 50=-218(B) 51=-218(B) 52=-220(B) 53=-254(B) 54=-254(B) 55=-254(B) 57=-254(B) 58=-254(B) 59=-254(B)

57=-254(B) 58=-254(B) 59=-254(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

59) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-3=20, 3-5=20, 16-17=-20

Horz: 1-10=-25, 5-6=25, 1-3=-32, 3-5=32

Concentrated Loads (lb)

Vert: 46=-224(B) 48=-224(B) 49=-224(B) 50=-224(B) 51=-224(B) 52=-225(B) 53=-259(B) 54=-259(B) 55=-259(B)

57=-259(B) 58=-259(B) 59=-259(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

60) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-3=8, 3-5=8, 16-17=-20

Horz: 1-10=-25, 5-6=25, 1-3=-20, 3-5=20

Concentrated Loads (lb)

Vert: 46=-224(B) 48=-224(B) 49=-224(B) 50=-224(B) 51=-224(B) 52=-225(B) 53=-259(B) 54=-259(B) 55=-259(B)

57=-259(B) 58=-259(B) 59=-259(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

Continued on page 6



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/TP1 Quality Criteria and DSB-22** available from the Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscocomponents.com)

Job 24-1180-E	Truss A400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443087
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:26 2024 Page 6
ID:3mCmX7wpmmbwy7h639aarmzZihj-rDvh9ztGHW9_jt8572rYu5EhROQoxX5KtC5tpyHHXN**LOAD CASE(S)** Standard

61) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-14, 1-3=-29, 3-5=-29, 16-17=-20

Horz: 1-10=-14, 5-6=14, 1-3=1, 3-5=-1

Concentrated Loads (lb)

Vert: 46=-218(B) 48=-218(B) 49=-218(B) 50=-218(B) 51=-218(B) 52=-220(B) 53=-254(B) 54=-254(B) 55=-254(B) 57=-254(B) 58=-254(B) 59=-254(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

62) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-14, 1-3=-29, 3-5=-29, 16-17=-20

Horz: 1-10=-14, 5-6=14, 1-3=1, 3-5=-1

Concentrated Loads (lb)

Vert: 46=-218(B) 48=-218(B) 49=-218(B) 50=-218(B) 51=-218(B) 52=-220(B) 53=-254(B) 54=-254(B) 55=-254(B) 57=-254(B) 58=-254(B) 59=-254(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

63) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 10-47=-44, 9-47=-29, 9-52=-44, 52-56=-29, 7-56=-44, 6-7=-29, 1-3=-55, 3-5=-44, 16-17=-20

Horz: 1-10=21, 5-6=6, 1-3=3, 3-5=8

Concentrated Loads (lb)

Vert: 46=-265(B) 48=-265(B) 49=-265(B) 50=-265(B) 51=-265(B) 52=-281(B) 53=-331(B) 54=-331(B) 55=-331(B) 57=-331(B) 58=-331(B) 59=-331(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

64) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 10-47=-44, 9-47=-29, 9-52=-44, 52-56=-29, 7-56=-44, 6-7=-29, 1-3=-44, 3-5=-55, 16-17=-20

Horz: 1-10=-6, 5-6=21, 1-3=-8, 3-5=3

Concentrated Loads (lb)

Vert: 46=-265(B) 48=-265(B) 49=-265(B) 50=-265(B) 51=-265(B) 52=-281(B) 53=-331(B) 54=-331(B) 55=-331(B) 57=-331(B) 58=-331(B) 59=-331(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

65) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 10-47=-44, 9-47=-29, 9-52=-44, 52-56=-29, 7-56=-44, 6-7=-29, 1-3=-53, 3-5=-53, 16-17=-20

Horz: 1-10=-10, 5-6=10, 1-3=1, 3-5=-1

Concentrated Loads (lb)

Vert: 46=-265(B) 48=-265(B) 49=-265(B) 50=-265(B) 51=-265(B) 52=-281(B) 53=-331(B) 54=-331(B) 55=-331(B) 57=-331(B) 58=-331(B) 59=-331(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

66) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 10-47=-44, 9-47=-29, 9-52=-44, 52-56=-29, 7-56=-44, 6-7=-29, 1-3=-53, 3-5=-53, 16-17=-20

Horz: 1-10=-10, 5-6=10, 1-3=1, 3-5=-1

Concentrated Loads (lb)

Vert: 46=-265(B) 48=-265(B) 49=-265(B) 50=-265(B) 51=-265(B) 52=-281(B) 53=-331(B) 54=-331(B) 55=-331(B) 57=-331(B) 58=-331(B) 59=-331(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

67) Reversal: Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-3=-28, 3-5=-28, 16-17=-20

Horz: 1-10=16, 5-6=16, 1-3=16, 3-5=16

Concentrated Loads (lb)

Vert: 46=-202(B) 48=-202(B) 49=-202(B) 50=-202(B) 51=-202(B) 52=-200(B) 53=-230(B) 54=-230(B) 55=-230(B)

57=-230(B) 58=-230(B) 59=-230(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20

68) Reversal: Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 6-10=-8, 1-3=4, 3-5=4, 16-17=-20

Horz: 1-10=16, 5-6=16, 1-3=16, 3-5=16

Concentrated Loads (lb)

Vert: 46=-202(B) 48=-202(B) 49=-202(B) 50=-202(B) 51=-202(B) 52=-200(B) 53=-230(B) 54=-230(B) 55=-230(B)

57=-230(B) 58=-230(B) 59=-230(B)

Trapezoidal Loads (plf)

Vert: 11=-5-to-12=-20, 12=-20-to-13=-25, 13=-25-to-14=-35, 14=-35-to-15=-25, 15=-25-to-16=-20



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Job 24-1180-E	Truss A401	Truss Type Common	Qty 38	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443088
Modern Game A-	PHOENIX, AZ - 85042		0-020 - Nov 0, 2024 MITek Industries, Inc.	Wed Nov 20 12:52:26 2024	Page 1	

Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:26 2024 Page 1

R85443088

Scale = 1:69.3

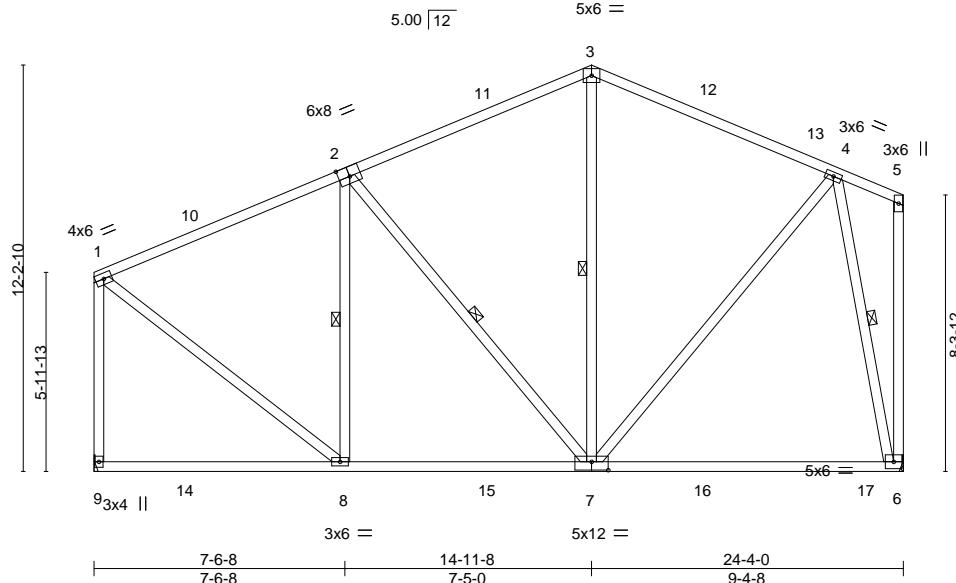


Plate Offsets (X,Y)-- [2:0-4-0,Edge], [7:0-6-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.93	Vert(LL)	-0.36	6-7	>798	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.51	6-7	>563	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.01	6	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05	6-7	>999	240	Weight: 142 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 *Except*

1-9: 2x4 HF/SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-1-3 oc bracing.

WEBS 1 Row at midpt 2-8, 2-7, 3-7, 4-6

REACTIONS.

Max Horz 9=352(LC 11)

Max Flotz 9=552(LC 11)

Max Split 9=138(LC 12), 8=143(LC 12)
Max Gray 9=1059(LC 19), 6=1078(LC 19)

Max Grav 9=1059(EC 19), 6=1078(EC 19)

FORCES
FOR CHILDREN

- TOP CHORD 1-2=-791/197, 2-3=-671/284, 3-4=-654/271, 1-9=-933/273
 BOT CHORD 8-9=-414/388, 7-8=-406/765, 6-7=-191/301
 WEBS 2-8=-318/208, 2-7=-271/200, 4-7=-138/547, 1-8=-217/820, 4-6=-1023/459

NOTES-

 - 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; VuLT=115mph (3-second gust) VASd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 14-11-8, Exterior(2R) 14-11-8 to 17-11-8, Interior(1) 17-11-8 to 24-2-4 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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 9 and 145 lb uplift at joint 6.
 - 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



EXPIRES: Jun 30, 2026
November 20,2024



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MI-74/75 rev. 11/2023 BEFORE USE.
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The MiTek logo consists of the word "MiTek" in a bold, blue, sans-serif font. A registered trademark symbol (®) is positioned in the top right corner of the letter "k".

Job 24-1180-E	Truss A410	Truss Type GABLE	Qty 1	Ply 2	4-Plex-A - Farmhouse-Roof	R85443090
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:34 2024 Page 1

5-11-12 | 12-8-8 | 18-0-8 | 24-8-8 | 31-4-8 | 36-8-8 | 43-5-4 | 49-6-8
 5-11-12 | 6-8-12 | 5-4-0 | 6-8-0 | 6-8-0 | 5-4-0 | 6-8-12 | 6-1-4

ID:3mCmX7wpmbwy7h639aarmzZihj-cmOirizHPz9rh5ldbk_QDnZ10c92gVuHa68X9LyHHXF

QUALIFIED BUILDING DESIGNER OR PROJECT ENGINEER SHALL REVIEW THE INPUT LENGTH AND PLACEMENT OF CONNECTION TO TRANSFER LATERAL FORCES TO THE SUPPORTING STRUCTURE AS STATED IN THE DRAG LOAD NOTE BELOW.

5x6 ||

Scale = 1:93.6

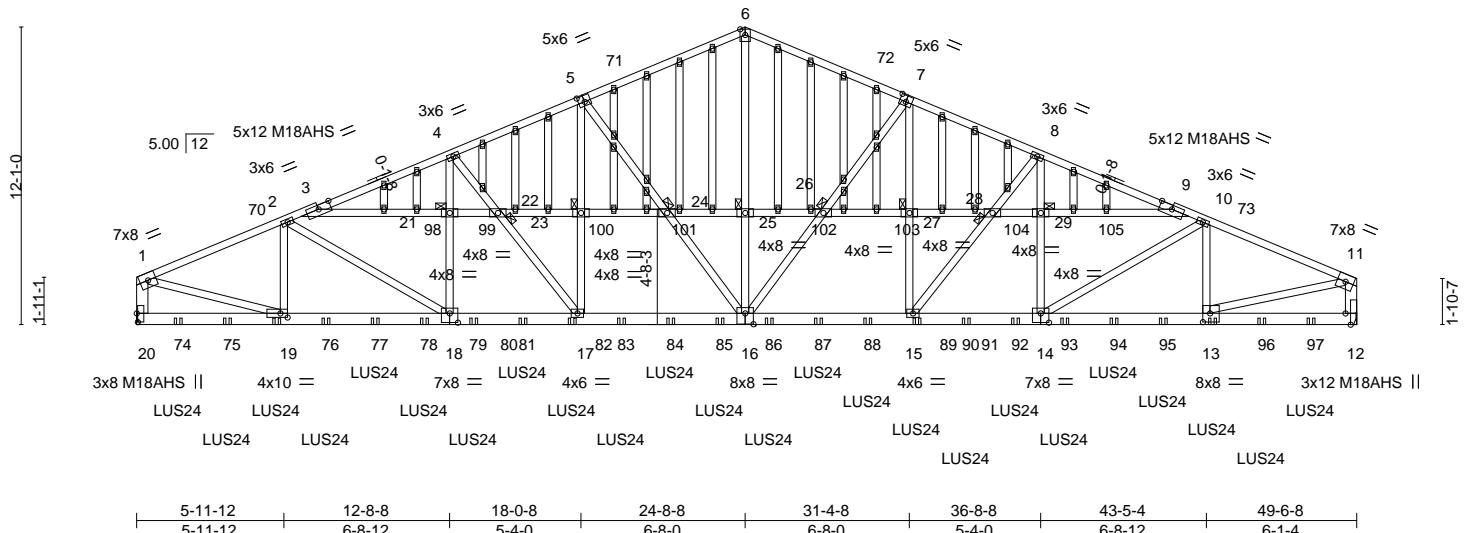


Plate Offsets (X,Y)-- [5:0-3-0,0-3-0], [7:0-3-0,0-3-0], [12:0-5-8,Edge], [13:0-3-8,0-4-4], [14:0-4-0,0-4-8], [16:0-4-0,0-5-4], [18:0-4-0,0-4-8], [19:0-3-8,0-2-0], [20:0-4-4,0-0-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.98	Vert(LL)	-0.26	15-16	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.70	Vert(CT)	-0.63	15-16	>929	240	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.92	Horz(CT)	0.16	12	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.27	15-16	>999	240	Weight: 804 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x6 SPF 1650F 1.5E
 WEBS 2x4 HF/SPF Stud/Stud *Except*
 2-18,4-17,5-17,5-16,6-6,16,7-16,7-15,8-15,10-14,1-19,11-13: 2x4 SPF
 No.2
 1-20,11-12: 2x6 SPF 1650F 1.5E
 OTHERS 2x4 SPF Utility

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 21, 22, 23, 24, 25, 26, 27, 28, 29

REACTIONS. (size) 20=Mechanical, 12=Mechanical
 Max Horz 20=-254(LC 10)
 Max Uplift 20=-1339(LC 35), 12=-1347(LC 36)
 Max Grav 20=5964(LC 1), 12=6236(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-8583/1984, 2-3=-10129/2269, 3-4=-8373/1870, 4-5=-8003/1767, 5-6=-6808/1495,
 6-7=-6808/1513, 7-8=-8105/1795, 8-9=-8596/1916, 9-10=-10354/2313, 10-11=-9087/2049,
 1-20=-5607/1306, 11-12=-5798/1350
 BOT CHORD 19-20=-343/533, 18-19=-1742/7846, 17-18=-1973/9570, 16-17=-1810/9225,
 15-16=-1806/9319, 14-15=-1985/9778, 13-14=-1779/8309, 12-13=-229/437
 WEBS 2-19=-1218/336, 2-18=-428/2007, 18-21=-306/237, 4-21=-259/293, 4-22=-619/221,
 17-22=-648/208, 17-23=-307/1558, 5-23=-307/1631, 5-24=-1917/474, 16-24=-2031/474,
 16-25=-894/4685, 6-25=-894/4797, 16-26=-2187/468, 7-26=-2072/469, 15-27=-329/1722,
 7-27=-329/1795, 15-28=-828/223, 8-28=-801/235, 14-29=-302/361, 8-29=-255/462,
 10-14=-398/1710, 10-13=-959/329, 1-19=-1749/7772, 11-13=-1831/8151, 3-21=-1876/411,
 21-22=-1880/410, 22-23=-1886/415, 23-24=-1916/418, 24-25=-1852/419,
 25-26=-1853/420, 26-27=-1918/420, 27-28=-1886/416, 28-29=-1878/410, 9-29=-1877/411

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 5-2-3, Interior(1) 5-2-3 to 24-8-8, Exterior(2R) 24-8-8 to 29-7-15, Interior(1) 29-7-15 to 49-3-12 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
- 5) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Correlated End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.



EXPIRES: Jun 30, 2026
 November 20, 2024

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

MiTek
 400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss A410	Truss Type GABLE	Qty 1	Ply 2	4-Plex-A - Farmhouse-Roof	R85443090
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:34 2024 Page 2
ID:3mCmX7wpmmbwy7h639aarmzZihj-cmOirizHPz9rh5lDbk_QDnZ10c92gVuHA68X9LyHHXF**NOTES-**

- 6) All plates are MT20 plates unless otherwise indicated.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
- 11) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1339 lb uplift at joint 20 and 1347 lb uplift at joint 12.
- 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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 15) This truss has been designed for a total drag load of 1000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 49-6-8 for 20.0 pfl.
- 16) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-4 from the left end to 47-8-4 to connect truss(es) to back face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-60, 6-11=-60, 12-20=-20

Concentrated Loads (lb)

Vert: 19=-247(B) 13=-331(B) 74=-247(B) 75=-247(B) 76=-247(B) 77=-304(B) 78=-331(B) 79=-331(B) 81=-331(B) 82=-331(B) 83=-331(B) 84=-342(B) 85=-342(B)
86=-342(B) 87=-342(B) 88=-342(B) 89=-342(B) 90=-342(B) 92=-331(B) 93=-331(B) 94=-331(B) 95=-331(B) 96=-331(B) 97=-331(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-52, 6-11=-52, 18-20=-35, 18-80=-50, 17-80=-35, 17-84=-50, 84-87=-35, 15-87=-50, 15-91=-35, 14-91=-50, 12-14=-35

Concentrated Loads (lb)

Vert: 19=-218(B) 13=-293(B) 74=-218(B) 75=-218(B) 76=-218(B) 77=-269(B) 78=-293(B) 79=-293(B) 81=-293(B) 82=-293(B) 83=-293(B) 84=-303(B) 85=-303(B)
86=-303(B) 87=-303(B) 88=-303(B) 89=-303(B) 90=-303(B) 92=-293(B) 93=-293(B) 94=-293(B) 95=-293(B) 96=-293(B) 97=-293(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-28, 6-11=-28, 12-20=-40

Concentrated Loads (lb)

Vert: 19=-186(B) 13=-256(B) 74=-186(B) 75=-186(B) 76=-186(B) 77=-230(B) 78=-256(B) 79=-256(B) 81=-256(B) 82=-256(B) 83=-256(B) 84=-264(B) 85=-264(B)
86=-264(B) 87=-264(B) 88=-264(B) 89=-264(B) 90=-264(B) 92=-256(B) 93=-256(B) 94=-256(B) 95=-256(B) 96=-256(B) 97=-256(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-70=27, 6-70=20, 6-72=33, 11-72=20, 12-20=-8

Horz: 1-70=39, 6-70=32, 6-72=45, 11-72=32, 1-20=27, 11-12=42

Concentrated Loads (lb)

Vert: 19=-66(B) 13=68(B) 74=66(B) 75=66(B) 76=66(B) 77=64(B) 78=68(B) 79=68(B) 81=68(B) 82=68(B) 83=68(B) 84=72(B)
85=72(B) 86=72(B) 87=72(B) 88=72(B) 90=72(B) 92=68(B) 93=68(B) 94=68(B) 95=68(B) 96=68(B) 97=68(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-71=20, 6-71=33, 6-73=20, 11-73=27, 12-20=-8

Horz: 1-71=32, 6-71=45, 6-73=32, 11-73=39, 1-20=42, 11-12=27

Concentrated Loads (lb)

Vert: 19=66(B) 13=68(B) 74=66(B) 75=66(B) 76=66(B) 77=64(B) 78=68(B) 79=68(B) 81=68(B) 82=68(B) 83=68(B) 84=72(B)
85=72(B) 86=72(B) 87=72(B) 88=72(B) 90=72(B) 92=68(B) 93=68(B) 94=68(B) 95=68(B) 96=68(B) 97=68(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-44, 6-11=-44, 12-20=-20

Horz: 1-6=16, 6-11=-16, 1-20=39, 11-12=30

Concentrated Loads (lb)

Vert: 19=77(B) 13=79(B) 74=77(B) 75=77(B) 76=77(B) 77=75(B) 78=79(B) 79=79(B) 81=79(B) 82=79(B) 83=79(B) 84=84(B)
85=84(B) 86=84(B) 87=84(B) 88=84(B) 89=84(B) 90=84(B) 92=79(B) 93=79(B) 94=79(B) 95=79(B) 96=79(B) 97=79(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss A410	Truss Type GABLE	Qty 1	Ply 2	4-Plex-A - Farmhouse-Roof	R85443090
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:34 2024 Page 3
ID:3mCmX7wpmmbwy7h639aarmzZihj-cmOirizHPz9rh5lDbk_QDnZ10c92gVuHA68X9LyHXF**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-6=-44, 6-11=-44, 12-20=-20
 Horz: 1-6=16, 6-11=-16, 1-20=-30, 11-12=-39

Concentrated Loads (lb)

Vert: 19=77(B) 13=79(B) 74=77(B) 75=77(B) 76=77(B) 77=75(B) 78=79(B) 79=79(B) 81=79(B) 82=79(B) 83=79(B) 84=84(B) 85=84(B) 86=84(B) 87=84(B)
 88=84(B) 89=84(B) 90=84(B) 92=79(B) 93=79(B) 94=79(B) 95=79(B) 96=79(B) 97=79(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
 104=-16-to-29=-13, 105=-11-to-9=-5

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=4, 6-11=11, 12-20=-8
 Horz: 1-6=16, 6-11=23, 1-20=16, 11-12=19

Concentrated Loads (lb)

Vert: 19=66(B) 13=68(B) 74=66(B) 75=66(B) 76=66(B) 77=64(B) 78=68(B) 79=68(B) 81=68(B) 82=68(B) 83=68(B) 84=72(B) 85=72(B) 86=72(B) 87=72(B)
 88=72(B) 89=72(B) 90=72(B) 92=68(B) 93=68(B) 94=68(B) 95=68(B) 96=68(B) 97=68(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
 104=-16-to-29=-13, 105=-11-to-9=-5

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=11, 6-11=4, 12-20=-8
 Horz: 1-6=-23, 6-11=16, 1-20=-19, 11-12=-16

Concentrated Loads (lb)

Vert: 19=66(B) 13=68(B) 74=66(B) 75=66(B) 76=66(B) 77=64(B) 78=68(B) 79=68(B) 81=68(B) 82=68(B) 83=68(B) 84=72(B) 85=72(B) 86=72(B) 87=72(B)
 88=72(B) 89=72(B) 90=72(B) 92=68(B) 93=68(B) 94=68(B) 95=68(B) 96=68(B) 97=68(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
 104=-16-to-29=-13, 105=-11-to-9=-5

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-37, 6-11=-17, 12-20=-20
 Horz: 1-6=9, 6-11=11, 1-20=28, 11-12=7

Concentrated Loads (lb)

Vert: 19=77(B) 13=79(B) 74=77(B) 75=77(B) 76=77(B) 77=75(B) 78=79(B) 79=79(B) 81=79(B) 82=79(B) 83=79(B) 84=84(B) 85=84(B) 86=84(B) 87=84(B)
 88=84(B) 89=84(B) 90=84(B) 92=79(B) 93=79(B) 94=79(B) 95=79(B) 96=79(B) 97=79(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
 104=-16-to-29=-13, 105=-11-to-9=-5

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-17, 6-11=-37, 12-20=-20
 Horz: 1-6=-11, 6-11=9, 1-20=-7, 11-12=-28

Concentrated Loads (lb)

Vert: 19=77(B) 13=79(B) 74=77(B) 75=77(B) 76=77(B) 77=75(B) 78=79(B) 79=79(B) 81=79(B) 82=79(B) 83=79(B) 84=84(B) 85=84(B) 86=84(B) 87=84(B)
 88=84(B) 89=84(B) 90=84(B) 92=79(B) 93=79(B) 94=79(B) 95=79(B) 96=79(B) 97=79(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
 26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=20, 6-11=20, 12-20=-8
 Horz: 1-6=32, 6-11=32, 1-20=25, 11-12=25

Concentrated Loads (lb)

Vert: 19=66(B) 13=68(B) 74=66(B) 75=66(B) 76=66(B) 77=64(B) 78=68(B) 79=68(B) 81=68(B) 82=68(B) 83=68(B)
 84=72(B) 85=72(B) 86=72(B) 87=72(B) 88=72(B) 90=72(B) 92=68(B) 93=68(B) 94=68(B) 95=68(B) 96=68(B)
 97=68(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
 26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=8, 6-11=8, 12-20=-8
 Horz: 1-6=20, 6-11=20, 1-20=25, 11-12=25

Concentrated Loads (lb)

Vert: 19=66(B) 13=68(B) 74=66(B) 75=66(B) 76=66(B) 77=64(B) 78=68(B) 79=68(B) 81=68(B) 82=68(B) 83=68(B)
 84=72(B) 85=72(B) 86=72(B) 87=72(B) 88=72(B) 90=72(B) 92=68(B) 93=68(B) 94=68(B) 95=68(B) 96=68(B)
 97=68(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
 26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-29, 6-11=-29, 12-20=-20
 Horz: 1-6=1, 6-11=-1, 1-20=-14, 11-12=14

Continued on page 4



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/TP1 Quality Criteria and DSB-22** available from the Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

Job 24-1180-E	Truss A410	Truss Type GABLE	Qty 1	Ply 2	4-Plex-A - Farmhouse-Roof	R85443090
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:34 2024 Page 4
ID:3mCmX7wpmmbwy7h639aarmzZihj-cmOirizHPz9rh5lDbk_QDnZ10c92gVuHA68X9LyHXF**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 19=77(B) 13=79(B) 74=77(B) 75=77(B) 76=77(B) 77=75(B) 78=79(B) 79=79(B) 81=79(B) 82=79(B) 83=79(B) 84=84(B) 85=84(B) 86=84(B) 87=84(B)
88=84(B) 89=84(B) 90=84(B) 92=79(B) 93=79(B) 94=79(B) 95=79(B) 96=79(B) 97=79(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-29, 6-11=-29, 12-20=-20

Horz: 1-6=1, 6-11=1, 1-20=14, 11-12=14

Concentrated Loads (lb)

Vert: 19=77(B) 13=79(B) 74=77(B) 75=77(B) 76=77(B) 77=75(B) 78=79(B) 79=79(B) 81=79(B) 82=79(B) 83=79(B) 84=84(B) 85=84(B) 86=84(B) 87=84(B)
88=84(B) 89=84(B) 90=84(B) 92=79(B) 93=79(B) 94=79(B) 95=79(B) 96=79(B) 97=79(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-28, 6-11=-28, 18-20=-40, 18-80=-60, 17-80=-40, 17-84=-60, 84-87=-40, 15-87=-60, 15-91=-40, 14-91=-60, 12-14=-40

Concentrated Loads (lb)

Vert: 19=-132(B) 13=-180(B) 74=-132(B) 75=-132(B) 76=-132(B) 77=-163(B) 78=-180(B) 79=-180(B) 81=-180(B) 82=-180(B) 83=-180(B) 84=-186(B) 85=-186(B)
86=-186(B) 87=-186(B) 88=-186(B) 90=-186(B) 92=-180(B) 93=-180(B) 94=-180(B) 95=-180(B) 96=-180(B) 97=-180(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-59, 6-11=-44, 18-20=-35, 18-80=-50, 17-80=-35, 17-84=-50, 84-87=-35, 15-87=-50, 15-91=-35, 14-91=-50, 12-14=-35

Horz: 1-6=7, 6-11=8, 1-20=21, 11-12=6

Concentrated Loads (lb)

Vert: 19=44(B) 13=40(B) 74=44(B) 75=44(B) 76=44(B) 77=39(B) 78=40(B) 79=40(B) 81=40(B) 82=40(B) 83=40(B) 84=43(B) 85=43(B) 86=43(B) 87=43(B)
88=43(B) 89=43(B) 90=43(B) 92=40(B) 93=40(B) 94=40(B) 95=40(B) 96=40(B) 97=40(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-44, 6-11=-59, 18-20=-35, 18-80=-50, 17-80=-35, 17-84=-50, 84-87=-35, 15-87=-50, 15-91=-35, 14-91=-50, 12-14=-35

Horz: 1-6=8, 6-11=7, 1-20=6, 11-12=21

Concentrated Loads (lb)

Vert: 19=44(B) 13=40(B) 74=44(B) 75=44(B) 76=44(B) 77=39(B) 78=40(B) 79=40(B) 81=40(B) 82=40(B) 83=40(B) 84=43(B) 85=43(B) 86=43(B) 87=43(B)
88=43(B) 89=43(B) 90=43(B) 92=40(B) 93=40(B) 94=40(B) 95=40(B) 96=40(B) 97=40(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-53, 6-11=-53, 18-20=-35, 18-80=-50, 17-80=-35, 17-84=-50, 84-87=-35, 15-87=-50, 15-91=-35, 14-91=-50,

12-14=-35

Horz: 1-6=1, 6-11=-1, 1-20=-10, 11-12=10

Concentrated Loads (lb)

Vert: 19=44(B) 13=40(B) 74=44(B) 75=44(B) 76=44(B) 77=39(B) 78=40(B) 79=40(B) 81=40(B) 82=40(B) 83=40(B)
84=43(B) 85=43(B) 86=43(B) 87=43(B) 88=43(B) 89=43(B) 90=43(B) 92=40(B) 93=40(B) 94=40(B) 95=40(B) 96=40(B)
97=40(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber

Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-53, 6-11=-53, 18-20=-35, 18-80=-50, 17-80=-35, 17-84=-50, 84-87=-35, 15-87=-50, 15-91=-35, 14-91=-50,

12-14=-35

Horz: 1-6=1, 6-11=-1, 1-20=-10, 11-12=10

Concentrated Loads (lb)

Vert: 19=44(B) 13=40(B) 74=44(B) 75=44(B) 76=44(B) 77=39(B) 78=40(B) 79=40(B) 81=40(B) 82=40(B) 83=40(B)
84=43(B) 85=43(B) 86=43(B) 87=43(B) 88=43(B) 89=43(B) 90=43(B) 92=40(B) 93=40(B) 94=40(B) 95=40(B) 96=40(B)
97=40(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-28, 6-11=-28, 12-20=-8

Horz: 1-6=16, 6-11=-16, 1-20=16, 11-12=16

Continued on page 5

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2023 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/TP1 Quality Criteria and DSB-22** available from the Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

Job 24-1180-E	Truss A410	Truss Type GABLE	Qty 1	Ply 2	4-Plex-A - Farmhouse-Roof	R85443090
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:34 2024 Page 5
ID:3mCmX7wpmmbwy7h639aarmzZihj-cmOirizHPz9rh5lDbk_QDnZ10c92gVuHA68X9LyHXF**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 19=44(B) 13=39(B) 74=44(B) 75=44(B) 76=44(B) 77=38(B) 78=39(B) 79=39(B) 81=39(B) 82=39(B) 83=39(B) 84=43(B) 85=43(B) 86=43(B) 87=43(B)

88=43(B) 89=43(B) 90=43(B) 92=39(B) 93=39(B) 94=39(B) 95=39(B) 96=39(B) 97=39(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,

104=-16-to-29=-13, 105=-11-to-9=-5

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=4, 6-11=4, 12-20=-8

Horz: 1-6=-16, 6-11=16, 1-20=16, 11-12=16

Concentrated Loads (lb)

Vert: 19=44(B) 13=39(B) 74=44(B) 75=44(B) 76=44(B) 77=38(B) 78=39(B) 79=39(B) 81=39(B) 82=39(B) 83=39(B) 84=43(B) 85=43(B) 86=43(B) 87=43(B)

88=43(B) 89=43(B) 90=43(B) 92=39(B) 93=39(B) 94=39(B) 95=39(B) 96=39(B) 97=39(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,

104=-16-to-29=-13, 105=-11-to-9=-5

47) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-60, 6-11=-28, 12-20=-20

Concentrated Loads (lb)

Vert: 19=-247(B) 13=-331(B) 74=-247(B) 75=-247(B) 76=-247(B) 77=-304(B) 78=-331(B) 79=-331(B) 81=-331(B) 82=-331(B) 83=-331(B) 84=-342(B) 85=-342(B)

86=-342(B) 87=-342(B) 88=-342(B) 90=-342(B) 92=-331(B) 93=-331(B) 94=-331(B) 95=-331(B) 96=-331(B) 97=-331(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,

104=-16-to-29=-13, 105=-11-to-9=-5

48) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-28, 6-11=-60, 12-20=-20

Concentrated Loads (lb)

Vert: 19=-247(B) 13=-331(B) 74=-247(B) 75=-247(B) 76=-247(B) 77=-304(B) 78=-331(B) 79=-331(B) 81=-331(B) 82=-331(B) 83=-331(B) 84=-342(B) 85=-342(B)

86=-342(B) 87=-342(B) 88=-342(B) 90=-342(B) 92=-331(B) 93=-331(B) 94=-331(B) 95=-331(B) 96=-331(B) 97=-331(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,

104=-16-to-29=-13, 105=-11-to-9=-5

49) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-52, 6-11=-28, 18-20=-35, 18-80=-50, 17-80=-35, 17-84=-50, 84-87=-35, 15-87=-50, 15-91=-35, 14-91=-50, 12-14=-35

Concentrated Loads (lb)

Vert: 19=-218(B) 13=-293(B) 74=-218(B) 75=-218(B) 76=-218(B) 77=-269(B) 78=-293(B) 79=-293(B) 81=-293(B) 82=-293(B) 83=-293(B) 84=-303(B) 85=-303(B)

86=-303(B) 87=-303(B) 88=-303(B) 90=-303(B) 92=-293(B) 93=-293(B) 94=-293(B) 95=-293(B) 96=-293(B) 97=-293(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,

104=-16-to-29=-13, 105=-11-to-9=-5

50) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-6=-28, 6-11=-52, 18-20=-35, 18-80=-50, 17-80=-35, 17-84=-50, 84-87=-35, 15-87=-50, 15-91=-35, 14-91=-50, 12-14=-35

Concentrated Loads (lb)

Vert: 19=-218(B) 13=-293(B) 74=-218(B) 75=-218(B) 76=-218(B) 77=-269(B) 78=-293(B) 79=-293(B) 81=-293(B)

82=-293(B) 83=-293(B) 84=-303(B) 85=-303(B) 86=-303(B) 87=-303(B) 88=-303(B) 89=-303(B) 90=-303(B) 92=-293(B)

93=-293(B) 94=-293(B) 95=-293(B) 96=-293(B) 97=-293(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,

26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

51) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-70=27, 6-70=20, 6-72=33, 11-72=20, 12-20=-8

Horz: 1-70=-39, 6-70=-32, 6-72=45, 11-72=32, 1-20=27, 11-12=42

Concentrated Loads (lb)

Vert: 19=-173(B) 13=-219(B) 74=-173(B) 75=-173(B) 76=-173(B) 77=-200(B) 78=-219(B) 79=-219(B) 81=-219(B)

82=-219(B) 83=-219(B) 84=-225(B) 85=-225(B) 86=-225(B) 87=-225(B) 88=-225(B) 89=-225(B) 90=-225(B) 92=-219(B)

93=-219(B) 94=-219(B) 95=-219(B) 96=-219(B) 97=-219(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,

26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

52) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-71=20, 6-71=33, 6-73=20, 11-73=27, 12-20=-8

Horz: 1-71=-32, 6-71=-45, 6-73=32, 11-73=39, 1-20=-42, 11-12=-27

Concentrated Loads (lb)

Vert: 19=-173(B) 13=-219(B) 74=-173(B) 75=-173(B) 76=-173(B) 77=-200(B) 78=-219(B) 79=-219(B) 81=-219(B)

82=-219(B) 83=-219(B) 84=-225(B) 85=-225(B) 86=-225(B) 87=-225(B) 88=-225(B) 89=-225(B) 90=-225(B) 92=-219(B)

93=-219(B) 94=-219(B) 95=-219(B) 96=-219(B) 97=-219(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,

26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

Continued on page 6



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Job 24-1180-E	Truss A410	Truss Type GABLE	Qty 1	Ply 2	4-Plex-A - Farmhouse-Roof	R85443090
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:34 2024 Page 6
ID:3mCmX7wpmmbwy7h639aarmzZihj-cmOirizHPz9rh5ldbk_QDnZ10c92gVuHA68X9LyHXF**LOAD CASE(S)** Standard

53) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=44, 6-11=44, 12-20=-20

Horz: 1-6=16, 6-11=-16, 1-20=39, 11-12=30

Concentrated Loads (lb)

Vert: 19=-162(B) 13=-208(B) 74=-162(B) 75=-162(B) 76=-162(B) 77=-189(B) 78=-208(B) 79=-208(B) 81=-208(B) 82=-208(B) 83=-208(B) 84=-214(B) 85=-214(B)
86=-214(B) 87=-214(B) 88=-214(B) 89=-214(B) 90=-214(B) 92=-208(B) 93=-208(B) 94=-208(B) 95=-208(B) 96=-208(B) 97=-208(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

54) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=44, 6-11=44, 12-20=-20

Horz: 1-6=16, 6-11=-16, 1-20=30, 11-12=39

Concentrated Loads (lb)

Vert: 19=-162(B) 13=-208(B) 74=-162(B) 75=-162(B) 76=-162(B) 77=-189(B) 78=-208(B) 79=-208(B) 81=-208(B) 82=-208(B) 83=-208(B) 84=-214(B) 85=-214(B)
86=-214(B) 87=-214(B) 88=-214(B) 89=-214(B) 90=-214(B) 92=-208(B) 93=-208(B) 94=-208(B) 95=-208(B) 96=-208(B) 97=-208(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

55) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=4, 6-11=11, 12-20=-8

Horz: 1-6=16, 6-11=23, 1-20=16, 11-12=19

Concentrated Loads (lb)

Vert: 19=-173(B) 13=-219(B) 74=-173(B) 75=-173(B) 76=-173(B) 77=-200(B) 78=-219(B) 79=-219(B) 81=-219(B) 82=-219(B) 83=-219(B) 84=-225(B) 85=-225(B)
86=-225(B) 87=-225(B) 88=-225(B) 89=-225(B) 90=-225(B) 92=-219(B) 93=-219(B) 94=-219(B) 95=-219(B) 96=-219(B) 97=-219(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

56) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=11, 6-11=4, 12-20=-8

Horz: 1-6=23, 6-11=16, 1-20=19, 11-12=16

Concentrated Loads (lb)

Vert: 19=-173(B) 13=-219(B) 74=-173(B) 75=-173(B) 76=-173(B) 77=-200(B) 78=-219(B) 79=-219(B) 81=-219(B) 82=-219(B) 83=-219(B) 84=-225(B) 85=-225(B)
86=-225(B) 87=-225(B) 88=-225(B) 89=-225(B) 90=-225(B) 92=-219(B) 93=-219(B) 94=-219(B) 95=-219(B) 96=-219(B) 97=-219(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

57) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=37, 6-11=17, 12-20=-20

Horz: 1-6=9, 6-11=11, 1-20=28, 11-12=7

Concentrated Loads (lb)

Vert: 19=-162(B) 13=-208(B) 74=-162(B) 75=-162(B) 76=-162(B) 77=-189(B) 78=-208(B) 79=-208(B) 81=-208(B) 82=-208(B) 83=-208(B) 84=-214(B) 85=-214(B)
86=-214(B) 87=-214(B) 88=-214(B) 89=-214(B) 90=-214(B) 92=-208(B) 93=-208(B) 94=-208(B) 95=-208(B) 96=-208(B) 97=-208(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

58) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=17, 6-11=37, 12-20=-20

Horz: 1-6=11, 6-11=9, 1-20=7, 11-12=28

Concentrated Loads (lb)

Vert: 19=-162(B) 13=-208(B) 74=-162(B) 75=-162(B) 76=-162(B) 77=-189(B) 78=-208(B) 79=-208(B) 81=-208(B) 82=-208(B) 83=-208(B) 84=-214(B) 85=-214(B)
86=-208(B) 88=-214(B) 88=-214(B) 90=-214(B) 92=-208(B) 93=-208(B) 94=-208(B) 95=-208(B) 96=-208(B) 97=-208(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

59) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=20, 6-11=20, 12-20=-8

Horz: 1-6=32, 6-11=32, 1-20=25, 11-12=25

Concentrated Loads (lb)

Vert: 19=-173(B) 13=-219(B) 74=-173(B) 75=-173(B) 76=-173(B) 77=-200(B) 78=-219(B) 79=-219(B) 81=-219(B)
82=-219(B) 83=-219(B) 84=-225(B) 85=-225(B) 86=-225(B) 87=-225(B) 88=-225(B) 90=-225(B) 92=-219(B)
93=-219(B) 94=-219(B) 95=-219(B) 96=-219(B) 97=-219(B)

Trapezoidal Loads (plf)

Vert: 3=5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

60) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 7

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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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss A410	Truss Type GABLE	Qty 1	Ply 2	4-Plex-A - Farmhouse-Roof	R85443090
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:34 2024 Page 7
ID:3mCmX7wpmmbwy7h639aarmzZihj-cmOirizHPz9rh5lDbk_QDnZ10c92gVuHA68X9LyHXF**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-6=8, 6-11=8, 12-20=-8

Horz: 1-6=20, 6-11=20, 1-20=-25, 11-12=25

Concentrated Loads (lb)

Vert: 19=-173(B) 13=-219(B) 74=-173(B) 75=-173(B) 76=-173(B) 77=-200(B) 78=-219(B) 79=-219(B) 81=-219(B) 82=-219(B) 83=-219(B) 84=-225(B) 85=-225(B)

86=-225(B) 87=-225(B) 88=-225(B) 89=-225(B) 90=-225(B) 92=-219(B) 93=-219(B) 94=-219(B) 95=-219(B) 96=-219(B) 97=-219(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

61) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-29, 6-11=-29, 12-20=20

Horz: 1-6=1, 6-11=-1, 1-20=-14, 11-12=14

Concentrated Loads (lb)

Vert: 19=-162(B) 13=-208(B) 74=-162(B) 75=-162(B) 76=-162(B) 77=-189(B) 78=-208(B) 79=-208(B) 81=-208(B) 82=-208(B) 83=-208(B) 84=-214(B) 85=-214(B)

86=-214(B) 87=-214(B) 88=-214(B) 89=-214(B) 90=-214(B) 92=-208(B) 93=-208(B) 94=-208(B) 95=-208(B) 96=-208(B) 97=-208(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

62) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-29, 6-11=-29, 12-20=-20

Horz: 1-6=1, 6-11=-1, 1-20=-14, 11-12=14

Concentrated Loads (lb)

Vert: 19=-162(B) 13=-208(B) 74=-162(B) 75=-162(B) 76=-162(B) 77=-189(B) 78=-208(B) 79=-208(B) 81=-208(B) 82=-208(B) 83=-208(B) 84=-214(B) 85=-214(B)

86=-214(B) 87=-214(B) 88=-214(B) 89=-214(B) 90=-214(B) 92=-208(B) 93=-208(B) 94=-208(B) 95=-208(B) 96=-208(B) 97=-208(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

63) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-59, 6-11=-44, 18-20=-35, 18-80=-50, 17-80=-35, 17-84=-50, 84-87=-35, 15-87=-50, 15-91=-35, 14-91=-50, 12-14=-35

Horz: 1-6=7, 6-11=8, 1-20=21, 11-12=6

Concentrated Loads (lb)

Vert: 19=-219(B) 13=-286(B) 74=-219(B) 75=-219(B) 76=-219(B) 77=-262(B) 78=-286(B) 79=-286(B) 81=-286(B) 82=-286(B) 83=-286(B) 84=-295(B) 85=-295(B)

86=-295(B) 87=-295(B) 88=-295(B) 89=-295(B) 90=-295(B) 92=-286(B) 93=-286(B) 94=-286(B) 95=-286(B) 96=-286(B) 97=-286(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,
104=-16-to-29=-13, 105=-11-to-9=-5

64) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-44, 6-11=-59, 18-20=-35, 18-80=-50, 17-80=-35, 17-84=-50, 84-87=-35, 15-87=-50, 15-91=-35, 14-91=-50, 12-14=-35

Horz: 1-6=8, 6-11=7, 1-20=-6, 11-12=21

Concentrated Loads (lb)

Vert: 19=-219(B) 13=-286(B) 74=-219(B) 75=-219(B) 76=-219(B) 77=-262(B) 78=-286(B) 79=-286(B) 81=-286(B) 82=-286(B) 83=-286(B) 84=-295(B) 85=-295(B)

86=-295(B) 87=-295(B) 88=-295(B) 89=-295(B) 90=-295(B) 92=-286(B) 93=-286(B) 94=-286(B) 95=-286(B) 96=-286(B) 97=-286(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

65) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-53, 6-11=-53, 18-20=-35, 18-80=-50, 17-80=-35, 17-84=-50, 84-87=-35, 15-87=-50, 15-91=-35, 14-91=-50,

12-14=-35

Horz: 1-6=1, 6-11=-1, 1-20=-10, 11-12=10

Concentrated Loads (lb)

Vert: 19=-219(B) 13=-286(B) 74=-219(B) 75=-219(B) 76=-219(B) 77=-262(B) 78=-286(B) 79=-286(B) 81=-286(B)

82=-286(B) 83=-286(B) 84=-295(B) 85=-295(B) 86=-295(B) 87=-295(B) 88=-295(B) 89=-295(B) 90=-295(B) 92=-286(B)

93=-286(B) 94=-286(B) 95=-286(B) 96=-286(B) 97=-286(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

66) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-53, 6-11=-53, 18-20=-35, 18-80=-50, 17-80=-35, 17-84=-50, 84-87=-35, 15-87=-50, 15-91=-35, 14-91=-50,

12-14=-35

Horz: 1-6=1, 6-11=-1, 1-20=-10, 11-12=10

Concentrated Loads (lb)

Vert: 19=-219(B) 13=-286(B) 74=-219(B) 75=-219(B) 76=-219(B) 77=-262(B) 78=-286(B) 79=-286(B) 81=-286(B)

82=-286(B) 83=-286(B) 84=-295(B) 85=-295(B) 86=-295(B) 87=-295(B) 88=-295(B) 89=-295(B) 90=-295(B) 92=-286(B)

93=-286(B) 94=-286(B) 95=-286(B) 96=-286(B) 97=-286(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32,
26=-31-to-103=-25, 27=-24-to-28=-17, 104=-16-to-29=-13, 105=-11-to-9=-5

Continued on page 8



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/TP1 Quality Criteria and DSB-22** available from the Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

Job 24-1180-E	Truss A410	Truss Type GABLE	Qty 1	Ply 2	4-Plex-A - Farmhouse-Roof	R85443090
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:34 2024 Page 8
ID:3mCmX7wpmmbwy7h639aarmzZihj-cmOirizHPz9rh5ldbk_QDnZ10c92gVuHA68X9LyHHXF**LOAD CASE(S)** Standard

67) Reversal: Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-28, 6-11=-28, 12-20=-8

Horz: 1-6=16, 6-11=-16, 1-20=16, 11-12=16

Concentrated Loads (lb)

Vert: 19=-152(B) 13=-191(B) 74=-152(B) 75=-152(B) 76=-152(B) 77=-175(B) 78=-191(B) 79=-191(B) 81=-191(B) 82=-191(B) 83=-191(B) 84=-197(B) 85=-197(B)
86=-197(B) 87=-197(B) 88=-197(B) 89=-197(B) 90=-197(B) 92=-191(B) 93=-191(B) 94=-191(B) 95=-191(B) 96=-191(B) 97=-191(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,

104=-16-to-29=-13, 105=-11-to-9=-5

68) Reversal: Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=4, 6-11=4, 12-20=-8

Horz: 1-6=16, 6-11=16, 1-20=16, 11-12=16

Concentrated Loads (lb)

Vert: 19=-152(B) 13=-191(B) 74=-152(B) 75=-152(B) 76=-152(B) 77=-175(B) 78=-191(B) 79=-191(B) 81=-191(B) 82=-191(B) 83=-191(B) 84=-197(B) 85=-197(B)
86=-197(B) 87=-197(B) 88=-197(B) 89=-197(B) 90=-197(B) 92=-191(B) 93=-191(B) 94=-191(B) 95=-191(B) 96=-191(B) 97=-191(B)

Trapezoidal Loads (plf)

Vert: 3=-5-to-98=-11, 21=-13-to-99=-16, 22=-17-to-23=-24, 100=-25-to-24=-31, 101=-32-to-25=-38, 25=-38-to-102=-32, 26=-31-to-103=-25, 27=-24-to-28=-17,

104=-16-to-29=-13, 105=-11-to-9=-5

ANSI/TP1 Quality Criteria and DSB-22

ANSI/TP1 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.sbcsccomponents.com)

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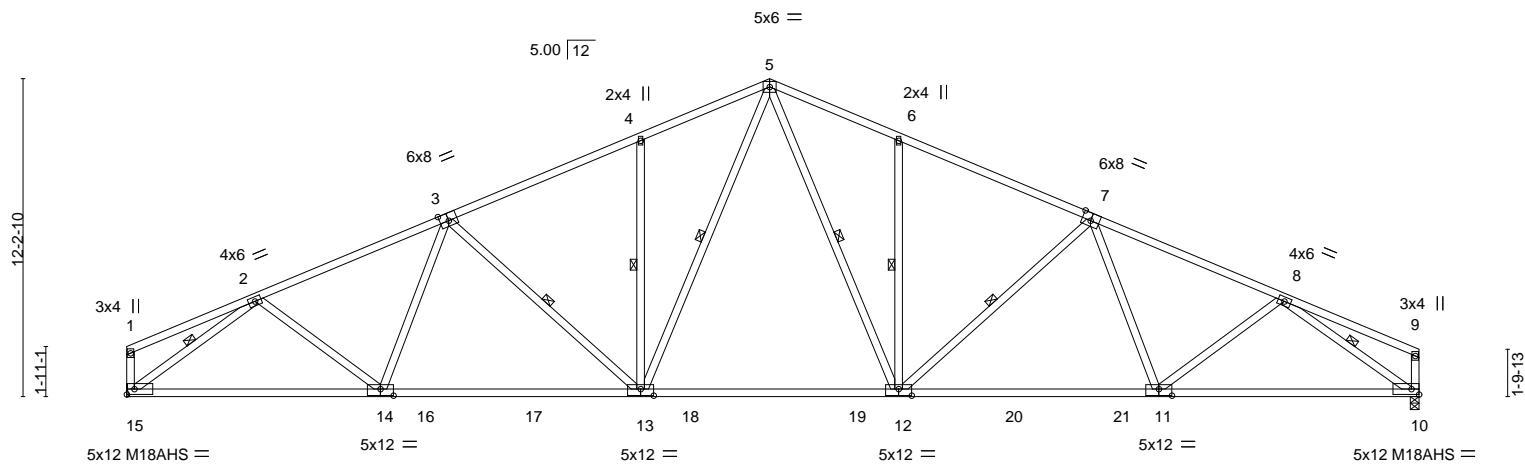
Job 24-1180-E	Truss A411	Truss Type Common	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443091
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Madera Comp Az, PHOENIX, AZ - 85043,

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5-1-0 12-4-8 19-9-0 24-8-8 29-8-0 37-0-8 44-4-0 49-8-0
5-1-0 7-3-8 7-4-8 4-11-8 4-11-8 7-4-8 7-3-8 5-4-0

Scale = 1:88.6



9-9-0 19-9-0 29-8-0 39-8-0 49-8-0
9-9-0 10-0-0 9-11-0 10-0-0 10-0-0

Plate Offsets (X,Y)-- [3:0-4-0,Edge], [7:0-4-0,Edge], [11:0-6-0,0-3-0], [12:0-6-0,0-3-0], [13:0-6-0,0-3-0], [14:0-6-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.67	Vert(LL)	-0.43	12-13	>999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 1.00	Vert(CT)	-0.73	12-13	>810	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.20	10	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.18	12	>999	Weight: 238 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E *Except*
14-15: 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std *Except*
3-13,4-13,5-13,5-12,6-12,7-12: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 14-15.
WEBS 1 Row at midpt 3-13, 4-13, 5-13, 2-15, 5-12, 6-12, 7-12, 8-10

REACTIONS. (size) 15=Mechanical, 10=0-4-0
Max Horz 15=-260(LC 10)
Max Uplift 15=-288(LC 12), 10=-288(LC 12)
Max Grav 15=2160(LC 17), 10=2161(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3305/566, 3-4=-2952/589, 4-5=-2935/682, 5-6=-2946/683, 6-7=-2964/592,

7-8=-3370/578

BOT CHORD 14-15=-463/2717, 13-14=-462/3115, 12-13=-266/2291, 11-12=-454/3017,

10-11=-472/2649

WEBS 2-14=0/587, 3-13=-501/151, 4-13=-395/210, 5-13=-240/1181, 2-15=-3070/546,

5-12=-245/1209, 6-12=-395/210, 7-12=-541/156, 8-11=0/519, 8-10=-3136/556

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-11-6, Interior(1) 4-11-6 to 24-8-8, Exterior(2R) 24-8-8 to 29-8-0, Interior(1) 29-8-0 to 49-6-4 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 288 lb uplift at joint 15 and 288 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22](#) available from the Truss Plate Institute (www.tpiinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss A412	Truss Type Common	Qty 3	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443092
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Madera Comp Az, PHOENIX, AZ - 85043,

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5-1-0	12-4-8	19-9-0	24-8-8	29-8-0	37-0-8	44-4-0	49-8-0
5-1-0	7-3-8	7-4-8	4-11-8	4-11-8	7-4-8	7-3-8	5-4-0

Scale = 1:90.2

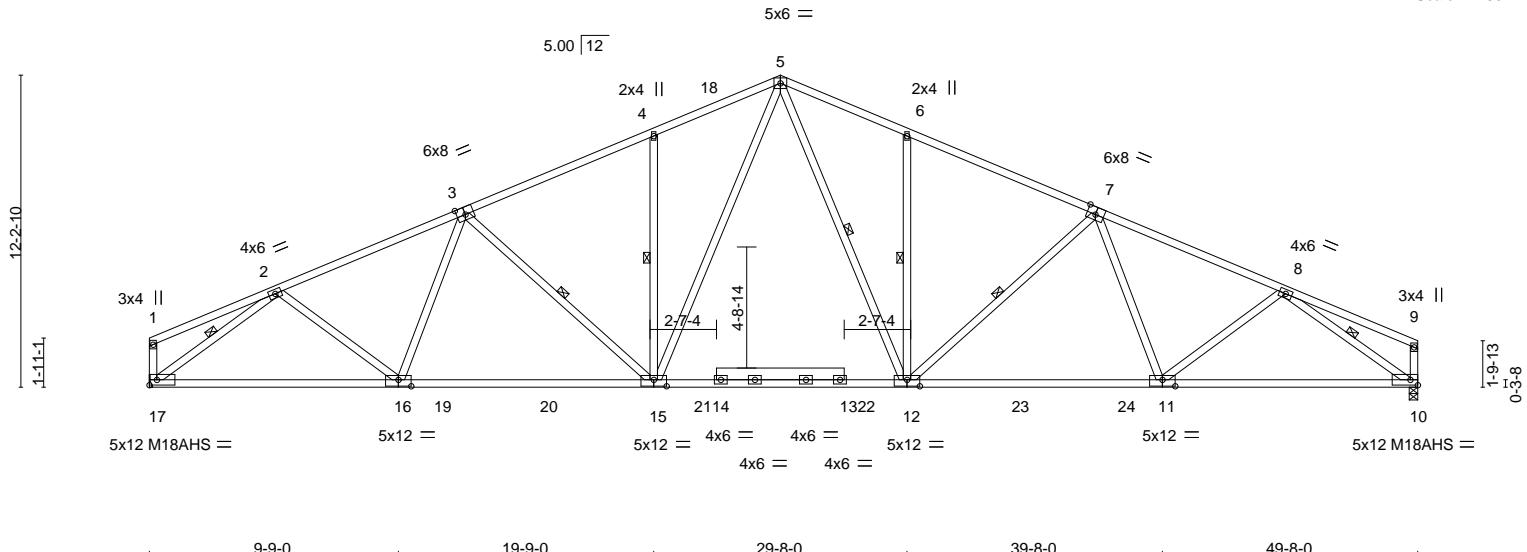


Plate Offsets (X,Y)-- [3:0-4-0-Edge], [7:0-4-0-Edge], [11:0-6-0-0-3-0], [12:0-6-0-0-3-0], [15:0-6-0-0-3-0], [16:0-6-0-0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.70	Vert(LL)	-0.40	11-12 >999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.86	Vert(CT)	-0.71	11-12 >836	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.20	10 n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.17	12 >999	240	Weight: 247 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF 1650F 1.5E *Except* 13-14: 2x6 SPF 1650F 1.5E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 HF/SPF Stud/Std *Except* 3-15.4-15.5-15.5-12.6-12.7-12: 2x4 SPF No.2	WEBS	1 Row at midpt 3-15, 4-15, 2-17, 5-12, 6-12, 7-12, 8-10

REACTIONS. (size) 17=Mechanical, 10=0-4-0
 Max Horz 17=-260(LC 10)
 Max Uplift 17=-209(LC 12), 10=-218(LC 12)
 Max Grav 17=2239(LC 17), 10=2231(LC 18)

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.
WEBS	1 Row at midpt 3-15, 4-15, 2-17, 5-12, 6-12, 7-12, 8-10

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3453/421, 3-4=-3117/418, 4-5=-3117/523, 5-6=-3092/529, 6-7=-3112/439, 7-8=-3506/444
BOT CHORD	16-17=-360/2823, 15-16=-321/3256, 12-15=-118/2435, 11-12=-323/3147, 10-11=-374/2748
WEBS	2-16=0/625, 3-15=-483/175, 4-15=-439/165, 5-15=-211/1207, 2-17=-3205/416, 5-12=-262/1189, 6-12=-390/214, 7-12=-532/171, 8-11=0/553, 8-10=-3259/437

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-11-6, Interior(1) 4-11-6 to 24-8-8, Exterior(2R) 24-8-8 to 29-8-0, Interior(1) 29-8-0 to 49-6-4 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
 - 3) 150.0lb AC unit load placed on the top chord, 23-5-8 from left end, supported at two points, 2-6-0 apart.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 17 and 218 lb uplift at joint 10.
 - 9) 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



EXPIRES: Jun 30, 2026
November 20, 2024



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MIKE REFERENCE PAGE MI-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/TP1 Quality Criteria and DSE-22](#) available from Truss Plate Institute ([www.tpinst.org](#)) and [RCSS Building Component Safety Information](#), available from the Structural Building Components Association ([www.sbccomponents.com](#)).

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400 Sunrise Ave., Suite 270
Roseville, CA 95661
(800) 755-2211 / (916) 773-1122

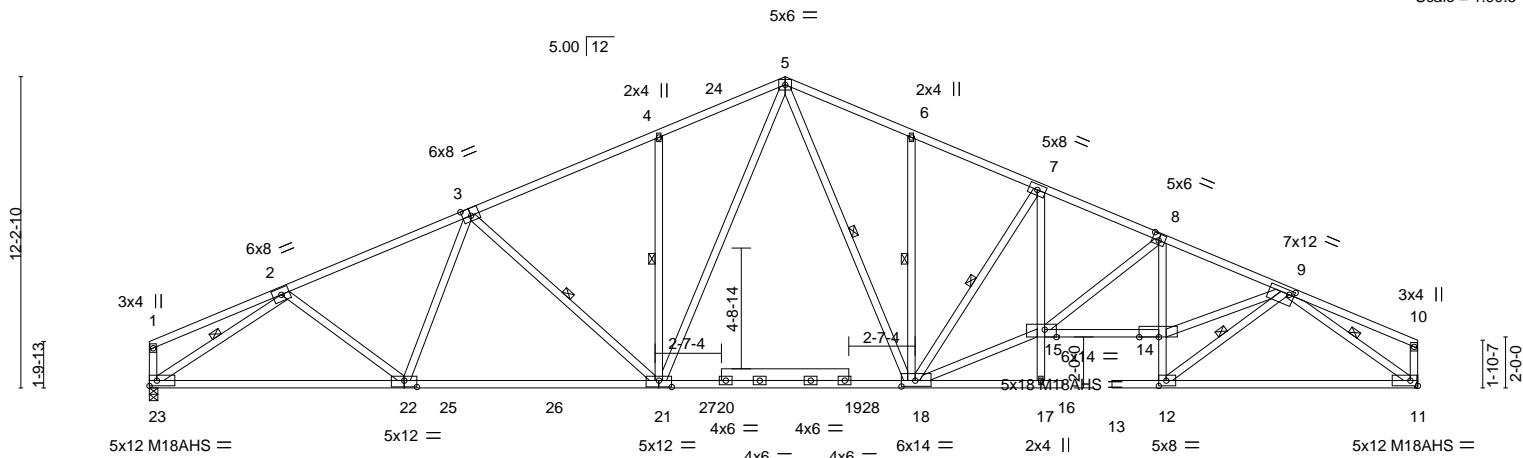
Job 24-1180-E	Truss A413	Truss Type Common	Qty 3	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443093
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:36 2024 Page 1

5-4-0 12-7-8 20-0-0 24-11-8 29-11-0 35-0-0 39-9-4 44-7-0 49-9-8
5-4-0 7-3-8 7-4-8 4-11-8 4-11-8 5-1-0 4-9-4 4-9-12 5-2-8

Scale = 1:90 5



10-0-0 20-0-0 29-11-0 35-0-0 39-9-4 49-9-8
10-0-0 20-0-0 29-11-0 35-0-0 39-9-4 49-9-8

Plate Offsets (X,Y)--		10-0-0	10-0-0	9-11-0	5-1-0	4-9-4	10-0-4
[3:0-4-0,Edge], [8:0-3-0,0-3-0], [9:0-2-7,0-2-0], [12:0-3-8,0-2-8], [14:0-9-4,0-0-0], [15:0-5-8,Edge], [18:0-6-8,0-2-12], [21:0-6-0,0-3-0], [22:0-6-0,0-3-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d
TCLL 16.0	Plate Grip DOL	1.25	TC 0.78	Vert(LL)	-0.45	11-12 >999	360
TCDL 14.0	Lumber DOL	1.25	BC 0.90	Vert(CT)	-0.91	11-12 >655	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.45	11 n/a	n/a
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.31	13 >999	240
						Weight: 274 lb	FT = 20%

LUMBER.

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF 1650F 1.5E *Except*

WEBS 19-20: 2x6 SPF 1650F 1.5E
2x4 SPF No.2 *Except*
2-22,3-22,9-12,1-23,2-23,10-11,9-11,8-15: 2x4 HF/SPF Stud/Std
9-14; 2x4 SPF 1650F 1.5E

BRACING.

REACTIONS. (size) 23=0-4-0, 11=Mechanical
 Max Horz 23=259(LC 11)
 Max Uplift 23=-205(LC 12), 11=-201
 Max Grav 23=2246(LC 17), 11=225

FORCES. (lb) - Max. Comp /Max. Ten - All forces 250 (lb) or less except when shown

FORCES. (lb) - Max. Comp./Max. Tens. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=3533/422, 3-4=3147/410, 4-5=3146/513, 5-6=3100/518, 6-7=-3088/430,
 7-8=4511/532, 8-9=-5213/586

BOT CHORD 11-12=-345/2664, 14-15=-465/4839, 22-23=-370/2953, 21-22=-319/3313,

WEBS 18-21=-112/2447
2-22=0/558, 3-21=-521/180, 4-21=-438/164, 5-21=-211/1250, 5-18=-247/1153,

$$6-18=-324/189,$$

NOTES

- NOTES-**

 - 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 5-2-6, Interior(1) 5-2-6 to 24-11-8, Exterior(2R) 24-11-8 to 29-11-0, Interior(1) 29-11-0 to 49-7-12 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
 - 3) 150.0lb AC unit load placed on the top chord, 23-8-8 from left end, supported at two points, 2-6-0 apart.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 23 and 201 lb uplift at joint 11.
 - 9) 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.



EXPIRES: Jun 30, 2026
November 20, 2024



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MI-4743 rev. 1/22/2023 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/TP1 Quality Criteria and DSB-22**, available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information**, available from the Structural Building Components Association (www.sbccomponents.com).

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400 Sunrise Ave., Suite 270
Roseville, CA 95661
(916) 755-2271, FAX: (916) 755-2272

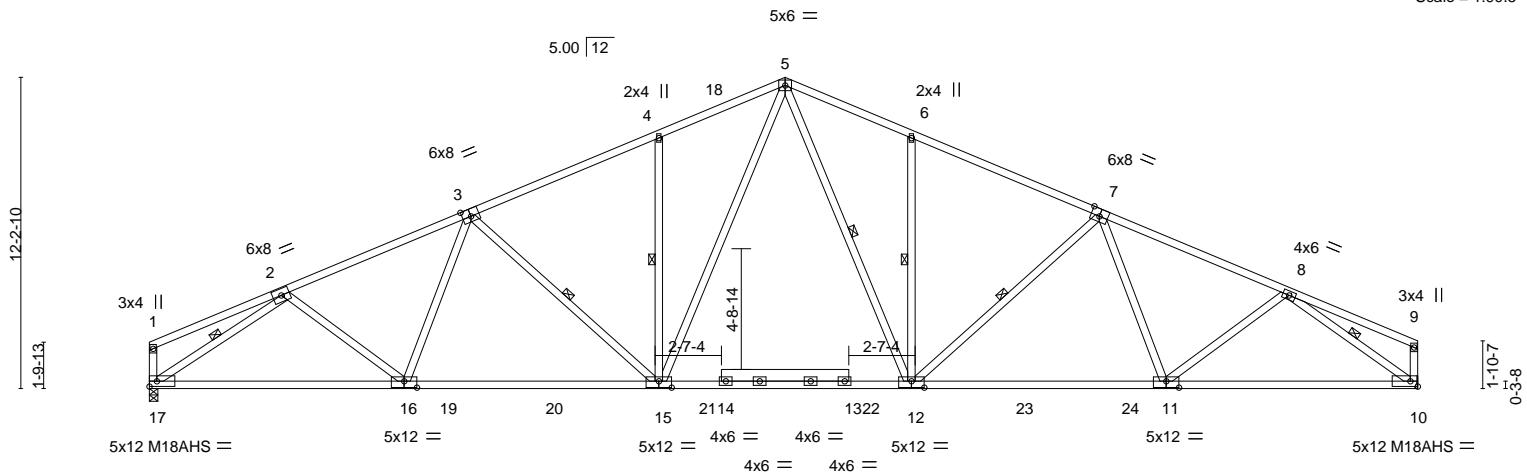
Job 24-1180-E	Truss A414	Truss Type Common	Qty 9	Ply 1	4-Plex-A - Farmhouse-Roof	R85443094
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:37 2024 Page 1

5-4-0 12-7-8 20-0-0 24-11-8 29-11-0 37-3-8 44-7-0 49-9-8
5-4-0 7-3-8 7-4-8 4-11-8 4-11-8 7-4-8 7-3-8 5-2-8

Scale = 1:90.5



10-0-0 20-0-0 29-11-0 39-11-0 49-9-8
10-0-0 10-0-0 9-11-0 10-0-0 9-10-8

Plate Offsets (X, Y)-- [3:0-4-0,Edge], [7:0-4-0,Edge], [11:0-6-0,0-3-0], [12:0-6-0,0-3-0], [15:0-6-0,0-3-0], [16:0-6-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	-0.40	15-16	>999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.72	15-16	>831	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.20	10	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.17	15	>999	Weight: 247 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E *Except*
13-14: 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
3-15,4-15,5-15,5-12,6-12,7-12: 2x4 SPF No.2

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.
WEBS 1 Row at midpt 3-15, 4-15, 5-12, 6-12, 7-12, 2-17, 8-10

REACTIONS.

(size) 17=0-4-0, 10=Mechanical
Max Horz 17=259(LC 11)
Max Uplift 17=210(LC 12), 10=-218(LC 12)
Max Grav 17=2244(LC 17), 10=2237(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3530/432, 3-4=-3142/422, 4-5=-3141/526, 5-6=-3099/531, 6-7=-3118/439,
7-8=-3483/440

BOT CHORD 16-17=-377/2951, 15-16=-329/3309, 12-15=-122/2448, 11-12=-324/3137,
10-11=-369/2697

WEBS 2-16=0/557, 3-15=-523/178, 4-15=-439/166, 5-15=-214/1236, 5-12=-260/1174,
6-12=-390/214, 7-12=-510/169, 8-11=0/591, 2-17=-3282/424, 8-10=-3235/434

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 5-2-6, Interior(1) 5-2-6 to 24-11-8, Exterior(2R) 24-11-8 to 29-11-0, Interior(1) 29-11-0 to 49-7-12 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
- 150.0lb AC unit load placed on the top chord, 23-8-8 from left end, supported at two points, 2-6-0 apart.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 17 and 218 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DS-B-22** available from Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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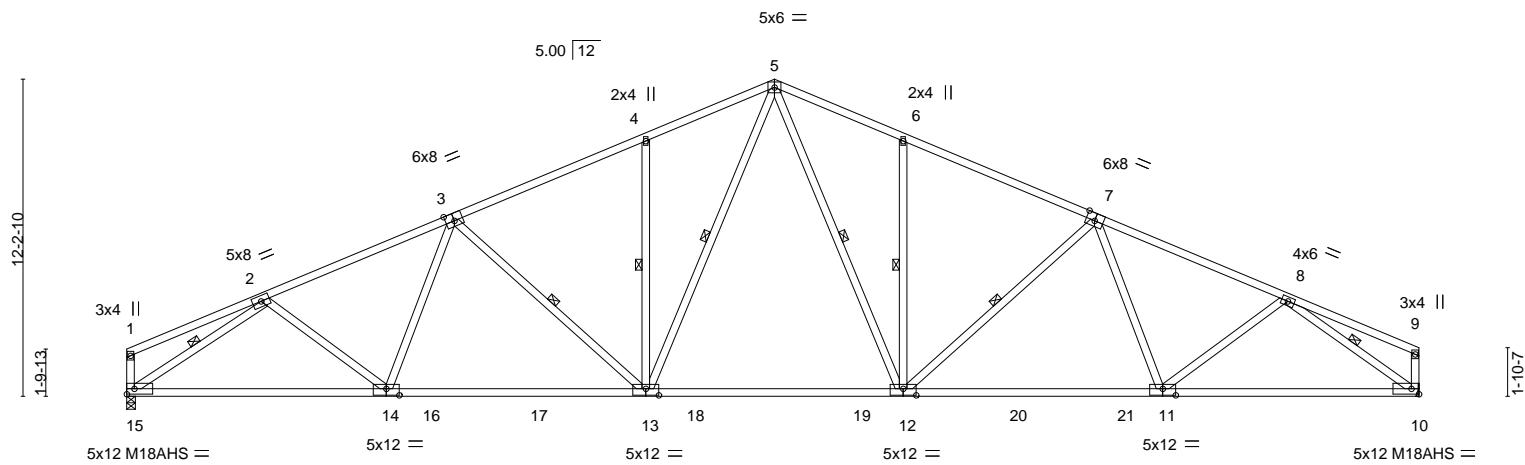
Job 24-1180-E	Truss A415	Truss Type Common	Qty 3	Ply 1	4-Plex-A - Farmhouse-Roof	R85443095
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:37 2024 Page 1

5-4-0 12-7-8 20-0-0 24-11-8 29-11-0 37-3-8 44-7-0 49-9-8
5-4-0 7-3-8 7-4-8 4-11-8 4-11-8 7-4-8 7-3-8 5-2-8

Scale = 1:88.8



10-0-0 20-0-0 29-11-0 39-11-0 49-9-8
10-0-0 10-0-0 9-11-0 10-0-0 9-10-8

Plate Offsets (X,Y)-- [3:0-4-0,Edge], [7:0-4-0,Edge], [11:0-6-0,0-3-0], [12:0-6-0,0-3-0], [13:0-6-0,0-3-0], [14:0-6-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.67	Vert(LL)	-0.43	12-13	>999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.74	12-13	>806	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.20	10	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.18	12-13	>999	Weight: 238 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
3-13,4-13,5-13,5-12,6-12,7-12: 2x4 SPF No.2

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.
WEBS 1 Row at midpt 3-13, 4-13, 5-13, 5-12, 6-12, 7-12, 2-15, 8-10

REACTIONS. (size) 15=0-4-0, 10=Mechanical

Max Horz 15=259(LC 11)
Max Uplift 15=-289(LC 12), 10=-289(LC 12)
Max Grav 15=2166(LC 17), 10=2165(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3380/579, 3-4=-2975/594, 4-5=-2958/685, 5-6=-2952/685, 6-7=-2970/592,

7-8=-3348/573

BOT CHORD 14-15=-486/2841, 13-14=-472/3167, 12-13=-270/2303, 11-12=-454/3008,

10-11=-464/2600

WEBS 2-14=0/521, 3-13=-539/156, 4-13=-395/210, 5-13=-244/1208, 5-12=-242/1194,

6-12=-395/210, 7-12=-520/154, 8-11=0/555, 2-15=-3145/558, 8-10=-3112/552

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 5-2-6, Interior(1) 5-2-6 to 24-11-8, Exterior(2R) 24-11-8 to 29-11-0, Interior(1) 29-11-0 to 49-7-12 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 289 lb uplift at joint 15 and 289 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 24-1180-E	Truss B100	Truss Type ROOF SPECIAL	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof	R85443097
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Madera Comp Az, PHOENIX, AZ - 85043,

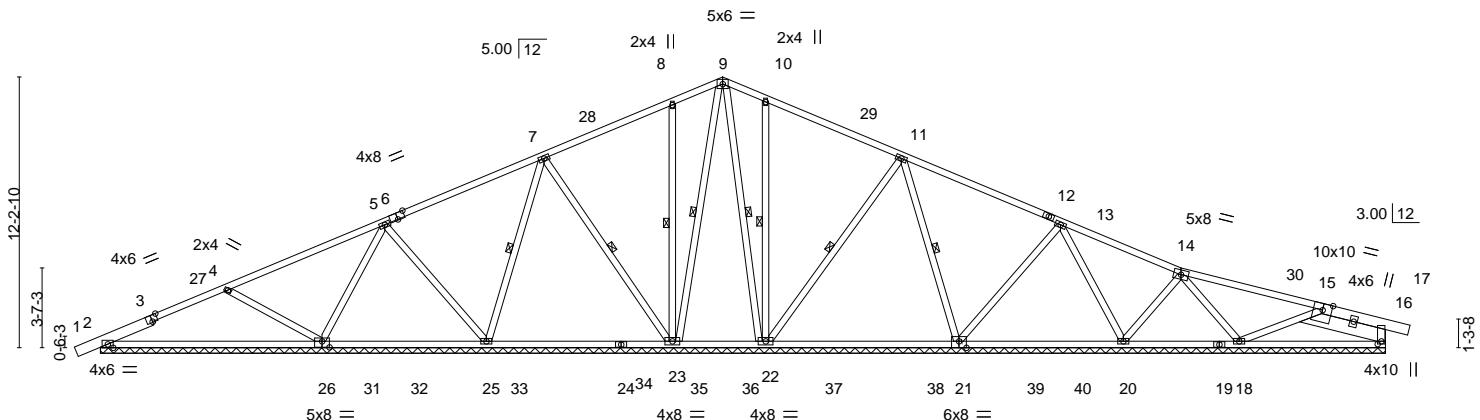
8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:39 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-zjBbuP1PEWo8ntdbOhabwrG_7duDLsO0KOrHqYHHXA

1-0-0 5-9-0 12-10-0 20-0-4 25-9-12 28-1-0 30-0-4 36-1-12 43-4-0 48-9-4 54-11-0 58-0-0 59-0-0

1-0-0 5-9-0 7-1-0 7-2-4 5-9-8 2-3-4 1-11-4 6-1-8 7-2-4 5-5-4 6-1-12 3-1-0 1-0-0

Scale = 1:104.0



10-0-0	17-5-0	25-9-12	30-0-4	38-9-0	46-2-0	51-4-12	58-0-0
10-0-0	7-5-0	8-4-12	4-2-8	8-8-12	7-5-0	5-2-12	6-7-4

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [6:0-4-0,Edge], [16:0-1-8,0-2-0], [21:0-4-0,Edge], [26:0-4-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.00	16	n/r	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.63	Vert(CT)	-0.00	16	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.46	Horz(CT)	0.01	22	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S					Weight: 300 lb	FT = 20%

LUMBER-TOP CHORD 2x4 SPF No.2 *Except*
15-17,1-3: 2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 *Except*

4-26,5-26,5-25,13-21,13-20,14-20,14-18,15-18: 2x4 HF/SPF Stud/Std

SLIDER Right 2x8 DF SS 3-11-10

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.

WEBS 1 Row at midpt 7-25, 7-23, 8-23, 9-22, 10-22, 11-21, 9-23, 11-22

REACTIONS. All bearings 58-0-0.

(lb) - Max Horz 2=229(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) except 2=222(LC 35), 26=381(LC 35), 25=176(LC 35), 23=171(LC 36), 21=190(LC 36), 20=205(LC 36), 18=-238(LC 36), 22=-180(LC 35), 16=-161(LC 36)

Max Grav All reactions 250 lb or less at joint(s) except 2=451(LC 49), 26=889(LC 17), 25=732(LC 17), 23=741(LC 17), 21=765(LC 18), 20=558(LC 18), 18=579(LC 18), 22=753(LC 18), 16=308(LC 50)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=589/409, 4-5=275/292, 5-7=-337/327, 7-8=-278/310, 9-10=-117/251, 10-11=-292/357, 11-13=-317/325, 15-16=-473/343

BOT CHORD 2-26=-395/629, 25-26=-242/305, 23-25=-243/315, 22-23=-226/314, 21-22=-249/337, 20-21=-227/302, 16-18=-341/433

WEBS 4-26=-550/268, 5-26=-556/444, 5-25=-386/367, 7-25=-440/351, 7-23=-365/362, 8-23=-309/203, 10-22=-327/214, 11-21=-430/341, 13-21=-341/320, 13-20=-440/344, 14-18=-414/321, 15-18=-538/273, 11-22=-372/355

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=58ft; eave=7ft; Cat II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 4-8-9, Interior(1) 4-8-9 to 28-1-0, Exterior(2R) 28-1-0 to 33-10-10, Interior(1) 33-10-10 to 59-0-11 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) All plates are 3x6 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 2, 381 lb uplift at joint 26, 176 lb uplift at joint 25, 171 lb uplift at joint 23, 190 lb uplift at joint 21, 205 lb uplift at joint 20, 238 lb uplift at joint 18, 180 lb uplift at joint 22 and 161 lb uplift at joint 16.

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



EXPIRES: Jun 30, 2026

November 20, 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/TPI1 Quality Criteria and DSB-22** available from the Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Roseville, CA 95661
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Job 24-1180-E	Truss B100	Truss Type ROOF SPECIAL	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443097
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:39 2024 Page 2

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NOTES-

- 9) This truss has been designed for a total drag load of 1700 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 58-0-0 for 29.3 plf.



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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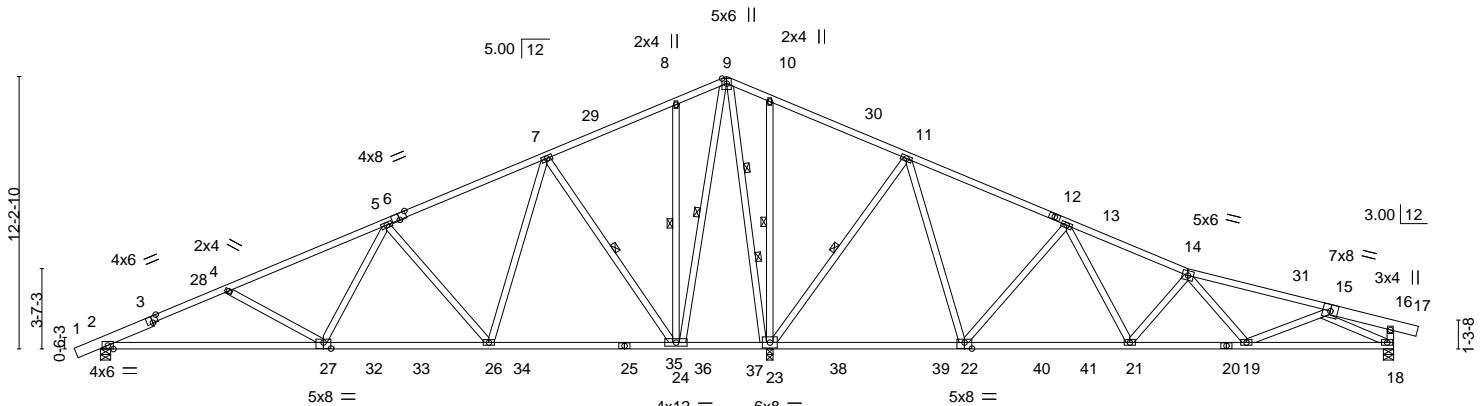
Job 24-1180-E	Truss B101	Truss Type Roof Special	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof	R85443098
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Madera Comp Az, PHOENIX, AZ - 85043,

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-1-0-0 5-9-0 12-10-0 20-0-4 25-9-12 28-1-0 30-0-4 36-1-12 43-4-0 48-9-4 54-11-0 58-0-0 59-0-0
1-0-0 5-9-0 7-1-0 7-2-4 5-9-8 2-3-4 1-11-4 6-1-8 7-2-4 5-5-4 6-1-12 3-1-0 1-0-0

Scale = 1:103.3



10-0-0 17-5-0 25-9-12 30-0-4 38-9-0 46-2-0 51-4-12 58-0-0
10-0-0 7-5-0 8-4-12 4-2-8 8-8-12 7-5-0 5-2-12 6-7-4

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [6:0-4-0,Edge], [22:0-4-0,0-3-4], [27:0-4-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.69	Vert(LL)	-0.24	2-27	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.71	Vert(CT)	-0.43	2-27	>837	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.03	23	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05	26-27	>999	240	Weight: 294 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 15-17,1-3: 2x6 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 4-5-13 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 5-5-0 oc bracing.
WEBS 2x4 HF/SPF Stud/Std *Except* 7-26,7-24,8-24,10-23,11-22,9-24,11-23: 2x4 SPF No.2 9-23: 2x4 SPF 1650F 1.5E	WEBS 1 Row at midpt 7-24, 8-24, 10-23, 9-24, 11-23 2 Rows at 1/3 pts 9-23

REACTIONS. (size) 2=0-5-8, 18=0-5-8, 23=(0-3-8 + TBE4 Simpson Strong-Tie) (req. 0-5-14)

Max Horz 2=249(LC 11)

Max Uplift 2=151(LC 12), 18=-129(LC 12), 23=-485(LC 12)

Max Grav 2=999(LC 25), 18=847(LC 26), 23=3751(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-1628/353, 4-5=-1280/245, 5-7=-530/268, 7-8=-30/832, 8-9=0/775, 9-10=-79/1459,

10-11=-171/1522, 11-13=-27/558, 13-14=-840/162, 14-15=-1276/206

BOT CHORD 2-27=-281/1542, 26-27=-64/917, 24-26=-335/216, 23-24=-1037/471, 22-23=-660/320,

21-22=-199/453, 19-21=-106/1069, 18-19=-256/1171

WEBS 4-27=-442/233, 5-27=-43/550, 5-26=-864/272, 7-26=-153/1001, 7-24=-1210/339,

8-24=-309/201, 9-23=-2371/432, 10-23=-364/222, 11-22=-156/1070, 13-22=-921/291,

13-21=-112/720, 14-21=-582/188, 15-18=-1299/315, 9-24=-434/1535, 11-23=-1284/355

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1 to 4-8-9, Interior(1) 4-8-9 to 28-1-0, Exterior(2R) 28-1-0 to 33-10-10, Interior(1) 33-10-10 to 59-0-11 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) All plates are 3x6 MT20 unless otherwise indicated.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 2 and 129 lb uplift at joint 18.

7) TBE4 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23. This connection is for uplift only and does not consider lateral forces.

8) 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.



EXPIRES: Jun 30, 2026

November 20,2024

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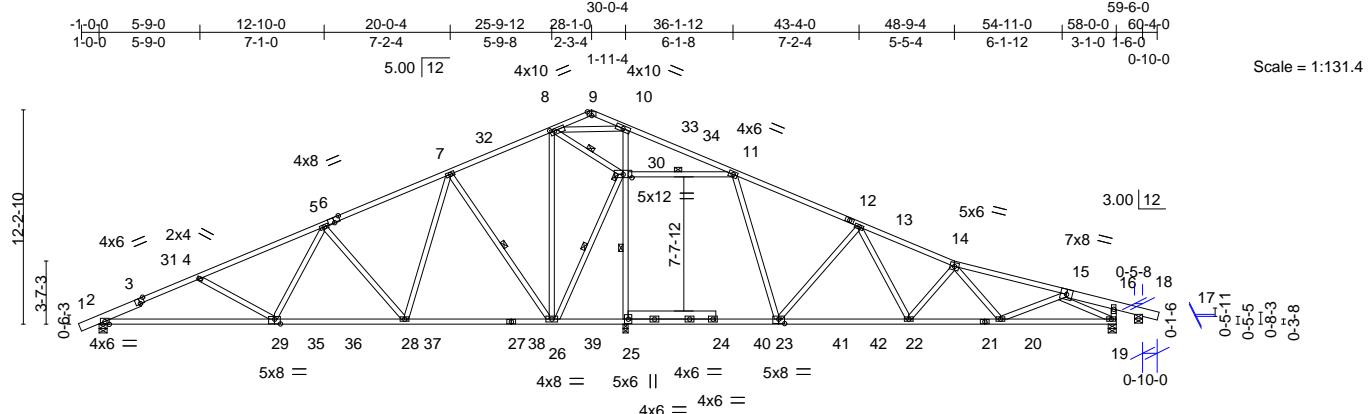
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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss B102	Truss Type ROOF SPECIAL	Qty 10	Ply 1	4-Plex-A - Farmhouse-Roof	R85443099
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:41 2024 Page 1

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NOTE: EXERCISE EXTREME CAUTION WHEN CUTTING SEAT FOR BEARING WALL. CUT MUST BE CLEANLY MADE WITHOUT OVER-CUTTING. TOP CHORD MUST BE FREE OF IMPERFECTIONS SUCH AS SPLITS, CHECKS, AND SHAKE IN THIS AREA.
MAX. VERTICAL CUT = 00-01-06
MAX. HORIZONTAL CUT = 00-05-08

10-0-0 17-5-0 25-9-12 30-0-4 38-9-0 46-2-0 51-4-12 58-0-0
10-0-0 7-5-0 8-4-12 4-2-8 8-8-12 7-5-0 5-2-12 6-7-4

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [6:0-4-0,Edge], [8:0-2-15,0-1-8], [9:0-3-0,Edge], [23:0-4-0,0-3-0], [29:0-4-0,0-3-4], [30:0-6-0,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.88	Vert(LL)	-0.24	2-29	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.43	2-29	>831	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.05	19	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.13	22-23	>999	240	Weight: 294 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 6-9,9-12: 2x4 SPF 1650F 1.5E, 15-18,1-3: 2x6 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 4-4-6 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 24-25: 2x6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 HF/SPF Stud/Std *Except* 7-28,7-26,8-26,11-23,26-30,8-10: 2x4 SPF No.2 10-25: 2x4 SPF 1650F 1.5E	WEBS 1 Row at midpt 7-26, 25-30, 26-30, 11-30, 8-30 JOINTS 1 Brace at Jt(s): 30

REACTIONS. (size) 2=0-5-8, 25=(0-3-8 + TBE4 Simpson Strong-Tie) (req. 0-5-15), 19=0-5-8, 17=0-5-8

Max Horz 2=250(LC 11)

Max Uplift 2=166(LC 12), 25=309(LC 12), 19=128(LC 12), 17=209(LC 18)

Max Grav 2=1048(LC 17), 25=3780(LC 19), 19=1224(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4-1717/409, 4-5-1374/303, 5-7-604/227, 8-9-0/685, 8-9-24/270,

10-11-709/3726, 11-13-195/437, 13-14-1014/208, 14-15-1356/234, 16-19-504/95

BOT CHORD 2-29-323/1660, 28-29-110/1048, 25-26-477/281, 23-25-520/291, 22-23-117/623,

20-22-128/1206, 19-20-226/1070

WEBS 4-29-430/229, 5-29-39/543, 5-28-864/271, 7-28-154/1002, 7-26-1198/338,

8-26-374/1564, 25-30-3461/658, 10-30-1950/320, 11-23-152/1045, 13-23-922/295,

13-22-107/703, 14-22-538/180, 15-19-1309/298, 26-30-892/309, 11-30-3006/751,

8-30-3456/839, 8-10-550/3147

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 4-8-9, Interior(1) 4-8-9 to 28-1-0, Exterior(2R) 28-1-0 to 33-10-10, Interior(1) 33-10-10 to 60-4-11 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 150.0lb AC unit load placed on the top chord, 31-5-0 from left end, supported at two points, 2-6-0 apart.

4) All plates are 3x6 MT20 unless otherwise indicated.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 2, 128 lb uplift at joint 19 and 209 lb uplift at joint 17.

8) TBE4 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 25. This connection is for uplift only and does not consider lateral forces.

9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 17.

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.



EXPIRES: Jun 30, 2026

November 20, 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 24-1180-E	Truss B103	Truss Type ROOF SPECIAL	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof	R85443100
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:42 2024 Page 1

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60-4-0

Scale = 1:109.1

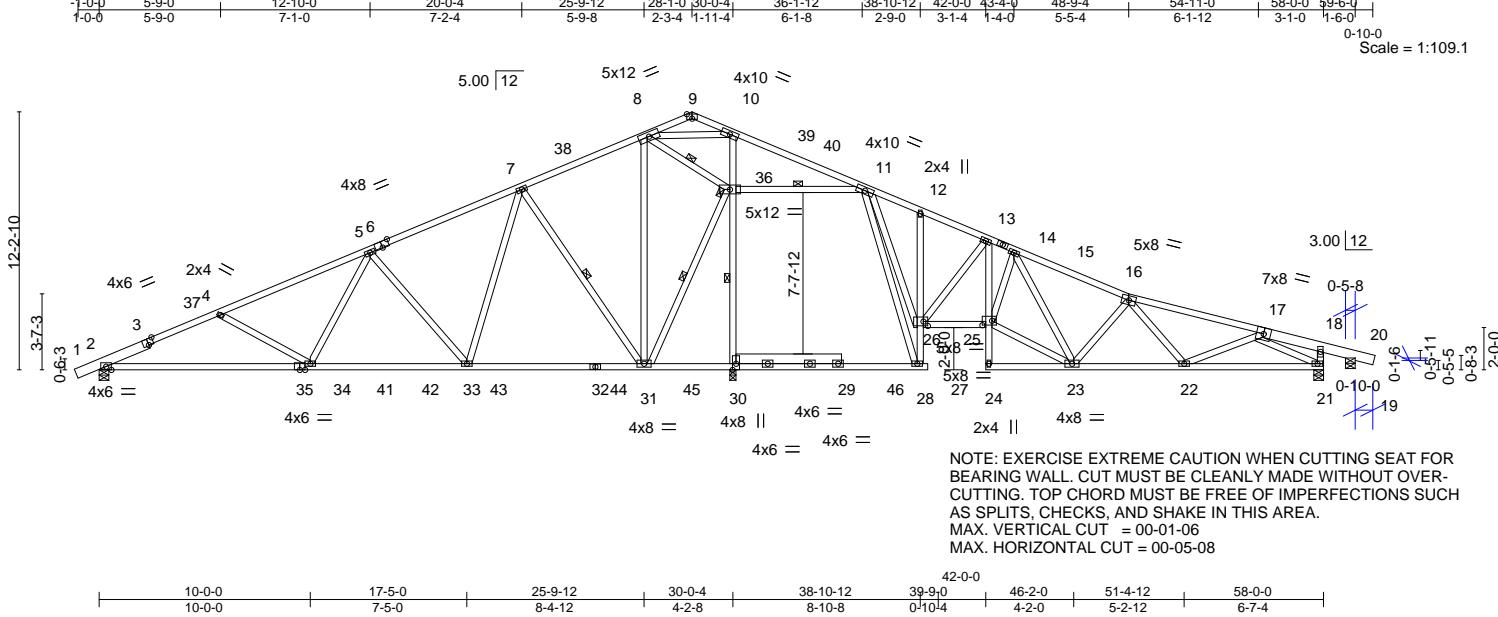


Plate Offsets (X,Y)-- [3:0-3-0,Edge], [6:0-4-0,Edge], [9:0-3-0,Edge], [25:0-5-8,0-2-8], [26:0-2-8,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.91	Vert(LL)	-0.30 28-30	>999	360		
TCDL 14.0	Lumber DOL 1.25	BC 0.88	Vert(CT)	-0.47 28-30	>710	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.93	Horz(CT)	0.05 30	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.12 27	>999	240	Weight: 323 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
6-9,9-14: 2x4 SPF 1650F 1.5E, 17-20,1-3: 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2 *Except*
29-30: 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
7-33,7-31,8-31,11-28,31-36,8-10,12-28: 2x4 SPF No.2
10-30: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-1-0 oc bracing.
WEBS 1 Row at midpt 7-31, 30-36, 31-36, 11-36, 8-36
JOINTS 1 Brace at Jt(s): 36

REACTIONS. All bearings 0-5-8 except (jt=length) 30=0-5-11 (input: 0-3-8 + TBE4 Simpson Strong-Tie).

- (lb) - Max Horz 2=250(LC 11)
- Max Uplift All uplift 100 lb or less at joint(s) except 2=215(LC 12), 30=-206(LC 12), 21=-188(LC 12), 19=-219(LC 18)
- Max Grav All reactions 250 lb or less at joint(s) 19 except 2=1138(LC 25), 30=3623(LC 19), 21=1274(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1946/547, 4-5=-1614/448, 5-7=-855/378, 7-8=0/560, 8-9=-43/314, 9-10=-42/270,
10-11=-569/3496, 11-12=-182/285, 13-15=-806/365, 15-16=-1039/385, 16-17=-1430/392,
18-21=-523/117
BOT CHORD 2-34=-432/1834, 33-34=-230/1239, 31-33=-206/481, 28-30=-282/125, 22-23=-282/1250,
21-22=-306/1061, 25-26=-83/687
WEBS 4-34=-419/218, 5-34=-33/532, 5-33=-859/268, 7-33=-151/1001, 7-31=-1197/336,
8-31=-428/1565, 30-36=-3259/565, 10-36=-1903/277, 11-28=-386/908, 16-23=-588/200,
17-22=0/273, 17-21=-1287/404, 31-36=-896/243, 11-36=-2923/763, 8-36=-3340/821,
8-10=-392/2880, 26-28=-720/409, 13-25=-219/923, 15-25=-410/183, 23-25=-158/899,
13-26=-950/233, 11-26=-208/413

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 4-8-9, Interior(1) 4-8-9 to 28-1-0, Exterior(2R) 28-1-0 to 33-10-10, Interior(1) 33-10-10 to 60-4-11 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 150.0lb AC unit load placed on the top chord, 31-5-0 from left end, supported at two points, 2-6-0 apart.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 2, 188 lb uplift at joint 19, and 219 lb uplift at joint 19.



EXPIRES: Jun 30, 2026

November 20, 2024

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MiTek
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss B103	Truss Type ROOF SPECIAL	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443100
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:42 2024 Page 2
ID:3mCmX7wpmmbw7h639aarmzZihj-NItkWR4IWRAieKM93P7IYTuQ6qr2Y6eS0M4yRtyHHX7

NOTES-

- 8) TBE4 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 30. This connection is for uplift only and does not consider lateral forces.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 19.
- 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.

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

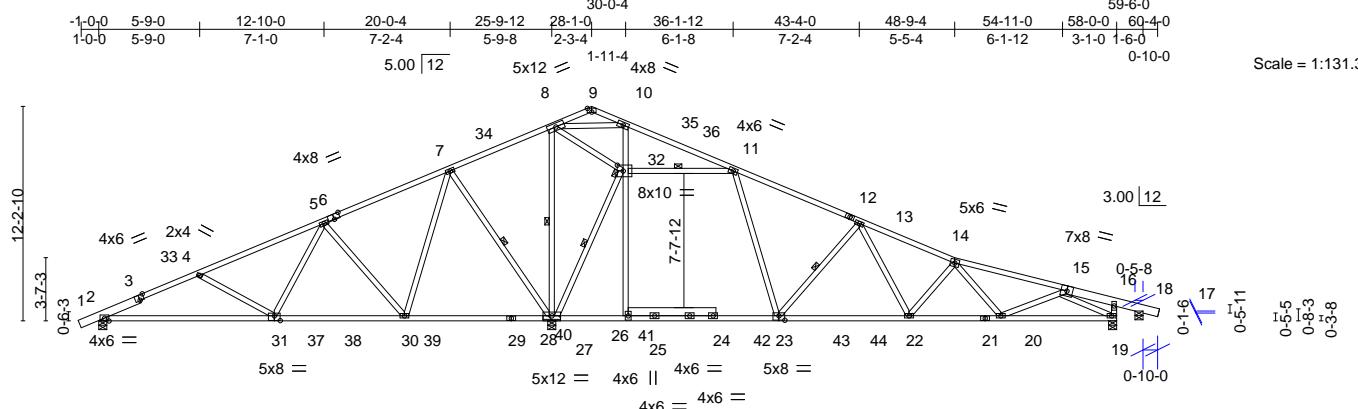
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Job 24-1180-E	Truss B104	Truss Type ROOF SPECIAL	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof	R85443101
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:43 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZlhj-rVR6kn4wHkIZGUxMd7eX4hRdkEeVhY9cF0pVzKyHHX6



10-0-0	17-5-0	25-9-12	30-0-4	38-9-0	46-2-0	51-4-12	58-0-0
10-0-0	7-5-0	8-4-12	4-2-8	8-8-12	7-5-0	5-2-12	6-7-4

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [6:0-4-0,Edge], [9:0-3-0,Edge], [23:0-4-0,0-3-0], [31:0-4-0,0-3-4], [32:0-4-0,0-4-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.78	Vert(LL)	-0.24	22-23	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.43	22-23	>895	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.04	19	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.13	22-23	>999	240	Weight: 295 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 6-9,9-12: 2x4 SPF 1650F 1.5E, 15-18,1-3: 2x6 SPF 1650F 1.5E	TOP CHORD	Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2 *Except* 24-25: 2x6 SPF 1650F 1.5E	BOT CHORD	Rigid ceiling directly applied or 5-8-12 oc bracing.
WEBS	2x4 HF/SPF Stud/Std *Except* 7-30,7-27,8-27,10-25,11-23,8-10: 2x4 SPF No.2 27-32: 2x4 SPF 1650F 1.5E	WEBS JOINTS	1 Row at midpt 7-27, 8-27, 13-23, 27-32, 11-32 1 Brace at Jt(s): 32

REACTIONS. (size) 2=0-5-8, 27=(0-5-8 + bearing block) (req. 0-6-3), 19=0-5-8, 17=0-5-8

Max Horz 2=250(LC 11)

Max Uplift 2=132(LC 12), 27=331(LC 12), 19=143(LC 12), 17=271(LC 18)

Max Grav 2=734(LC 23), 27=3932(LC 17), 19=1490(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4-1069/264, 4-5-650/255, 5-7-10/656, 7-8-141/1614, 10-11-639/3211, 11-13-654/154, 13-14-1551/290, 14-15-1819/305, 16-19-597/107

BOT CHORD 2-31-186/920, 30-31-324/336, 27-30-880/320, 25-27-204/268, 23-25-201/273, 22-23-48/1071, 20-22-207/1716, 19-20-269/1305

WEBS 4-31-490/241, 5-31-47/588, 5-30-884/274, 7-30-155/1007, 7-27-1207/340, 8-27-244/451, 25-32-0/320, 10-32-1736/290, 11-23-155/1067, 13-23-928/296, 13-22-109/716, 14-22-557/183, 15-20-0/439, 15-19-1576/347, 27-32-3521/666, 11-32-3062/760, 8-32-1929/582, 8-10-487/2689

NOTES-

1) 2x4 SPF No.2 bearing block 12" long at jt. 27 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.

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

3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 1-1-1 to 4-8-9, Interior(1) 4-8-9 to 28-1-0, Exterior(2R) 28-1-0 to 33-10-10, Interior(1) 33-10-10 to 60-4-11 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

4) 150.0lb AC unit load placed on the top chord, 31-5-0 from left end, supported at two points, 2-6-0 apart.

5) All plates are 3x6 MT20 unless otherwise indicated.

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

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 2, 331 lb uplift at joint 27, 143 lb uplift at joint 19 and 271 lb uplift at joint 17.

9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 17.

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/TPI1.

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

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



EXPIRES: Jun 30, 2026

November 20, 2024

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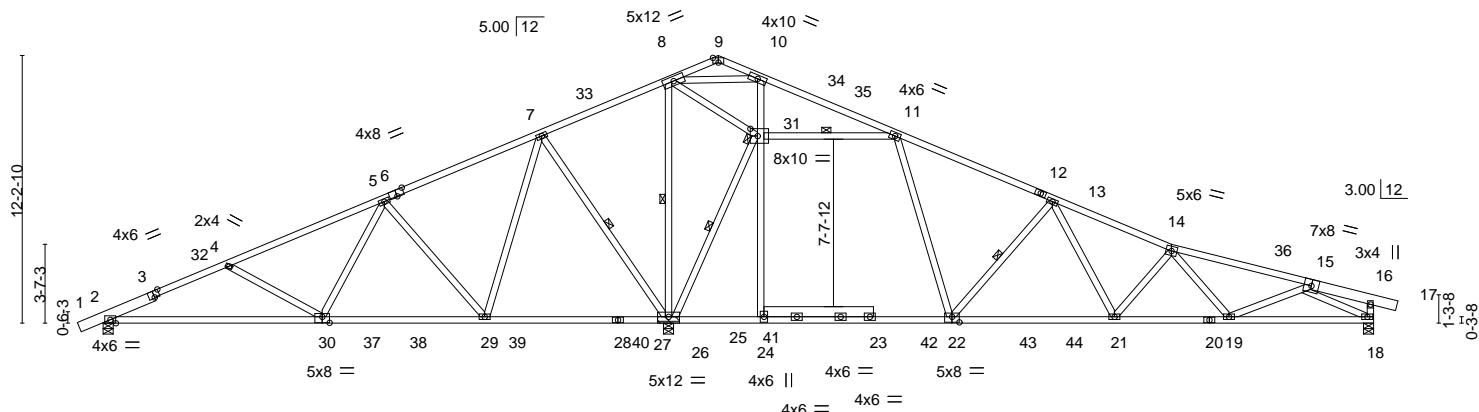
Job 24-1180-E	Truss B105	Truss Type ROOF SPECIAL	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof	R85443102
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:44 2024 Page 1

-1-0-0 5-9-0 | 12-10-0 7-1-0 | 20-0-4 7-2-4 | 25-9-12 5-9-8 | 28-1-0 30-0-4 2-3-4 1-11-4 | 36-1-12 6-1-8 | 43-4-0 7-2-4 | 48-9-4 5-5-4 | 54-11-0 6-1-12 | 58-0-0 59-0-0 3-1-0 1-0-0

Scale = 1:105.2



| 10-0-0 | 17-5-0 | 25-9-12 | 30-0-4 | 38-9-0 | 46-2-0 | 51-4-12 | 58-0-0 |
| 10-0-0 | 7-5-0 | 8-4-12 | 4-2-8 | 8-8-12 | 7-5-0 | 5-2-12 | 6-7-4 |

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [6:0-4-0,Edge], [9:0-3-0,Edge], [22:0-4-0,0-3-0], [30:0-4-0,0-3-4], [31:0-4-0,0-4-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.80	Vert(LL)	-0.24	21-22	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.44	21-22	>872	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.04	18	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.14	21-22	>999	240	Weight: 292 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2 *Except*
 6-9,9-12: 2x4 SPF 1650F 1.5E, 15-17,1-3: 2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF No.2 *Except*
 23-24: 2x6 SPF 1650F 1.5E
 WEBS 2x4 HF/SPF Stud/Std *Except*
 7-29,7-26,8-26,10-24,11-22,8-10: 2x4 SPF No.2
 26-31: 2x4 SPF 1650F 1.5E

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-7-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-7-7 oc bracing.
 WEBS 1 Row at midpt 7-26, 8-26, 13-22, 26-31, 11-31
 JOINTS 1 Brace at Jt(s): 31

REACTIONS. (size) 2=0-5-8, 26=(0-5-8 + bearing block) (req. 0-6-4), 18=0-5-8
 Max Horz 2=249(LC 11)
 Max Uplift 2=129(LC 12), 26=-336(LC 12), 18=-150(LC 12)
 Max Grav 2=729(LC 23), 26=3972(LC 19), 18=1114(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4-1057/253, 4-5-637/287, 5-7-20/690, 7-8-152/1644, 10-11-654/3279,
 11-13-651/148, 13-14-1597/291, 14-15-1950/319

BOT CHORD 2-30-182/909, 29-30-355/324, 26-29-914/318, 24-26-208/258, 22-24-205/263,
 21-22-55/1090, 19-21-226/1793, 18-19-327/1583

WEBS 4-30-492/241, 5-30-48/589, 5-29-884/274, 7-29-155/1008, 7-26-1207/340,

8-26-242/456, 24-31-0/320, 10-31-1765/297, 11-22-161/1096, 13-22-965/303,

13-21-116/768, 14-21-615/191, 15-19-0/275, 15-18-1713/394, 26-31-3576/676,

11-31-3114/767, 8-31-1964/586, 8-10-501/2750

NOTES-

1) 2x4 SPF No.2 bearing block 12" long at jt. 26 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.

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

3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 4-8-9, Interior(1) 4-8-9 to 28-1-0, Exterior(2R) 28-1-0 to 33-10-10, Interior(1) 33-10-10 to 59-0-11 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

4) 150.0lb AC unit load placed on the top chord, 31-5-0 from left end, supported at two points, 2-6-0 apart.

5) All plates are 3x6 MT20 unless otherwise indicated.

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

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.

8) Provides mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 2, 336 lb uplift at joint 26 and 150 lb uplift at joint 18.

9) 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.



EXPIRES: Jun 30, 2026

November 20,2024

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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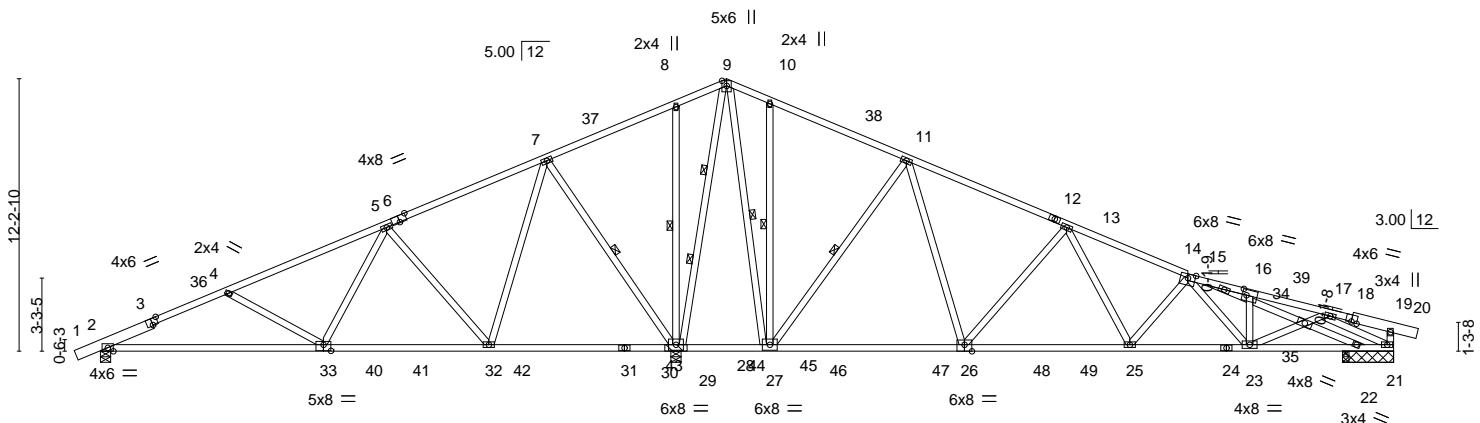
Job 24-1180-E	Truss B106	Truss Type Roof Special	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof	R85443103
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:45 2024 Page 1

-1-0-0 5-9-0 | 12-10-0 | 20-0-4 | 25-9-12 | 28-1-0 30-0-4 | 36-1-12 | 43-4-0 | 48-9-4 | 51-6-8 | 54-11-0 | 58-0-0 59-0-0
 1-0-0 5-9-0 | 7-1-0 | 7-2-4 | 5-9-8 | 2-3-4 1-11-4 | 6-1-8 | 7-2-4 | 5-5-4 | 2-9-4 | 3-4-8 | 3-1-0 1-0-0

Scale = 1:103.3



| 10-0-0 | 17-5-0 | 25-9-12 | 30-0-4 | 38-9-0 | 46-2-0 | 51-6-8 | 56-0-0 | 58-0-0 |
 10-0-0 | 7-5-0 | 8-4-12 | 4-2-8 | 8-8-12 | 7-5-0 | 5-4-8 | 4-5-8 | 2-0-1 |

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [6:0-4-0,Edge], [16:0-2-3,0-3-0], [26:0-4-0,Edge], [33:0-4-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.25 26-27	>999	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.63	Vert(CT)	-0.40 2-33	>761	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.04 21	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.06 23-25	>999	240	Weight: 305 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 18-20,1-3: 2x6 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 4-2-7 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 5-9-8 oc bracing.
WEBS 2x4 HF/SPF Stud/Stud *Except* 7-32,7-29,8-29,9-27,10-27,11-26,11-27: 2x4 SPF No.2 9-29: 2x4 SPF 1650F 1.5E	WEBS 1 Row at midpt 7-29, 8-29, 9-27, 10-27, 11-27 2 Rows at 1/3 pts 9-29

REACTIONS. All bearings 2-3-8 except (jt=length) 2=0-5-8, 29=0-5-13 (input: 0-5-8 + bearing block).

- (lb) - Max Horz. 2=250(LC 11)
- Max Uplift All uplift 100 lb or less at joint(s) 22 except 2=116(LC 12), 29=481(LC 12), 21=134(LC 12)
- Max Grav All reactions 250 lb or less at joint(s) except 2=761(LC 23), 29=3688(LC 17), 21=477(LC 24), 22=730(LC 18), 22=558(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=1129/230, 4-5=714/180, 5-7=50/579, 7-8=-180/1498, 8-9=-74/1420, 9-10=0/753, 10-11=-10/797, 11-13=-642/194, 13-14=-1503/326, 14-15=-1921/427, 15-16=-1017/242, 16-17=-918/192

BOT CHORD 2-33=-158/988, 32-33=-253/397, 29-32=-781/341, 27-29=-888/446, 26-27=-213/269, 25-26=-88/1037, 23-25=-256/1649, 22-23=-366/1712, 21-22=-176/716

WEBS 4-33=-482/243, 5-33=-49/584, 5-32=-883/276, 7-32=-153/1004, 7-29=-1201/337, 8-29=-336/208, 9-27=-453/1582, 10-27=-319/211, 11-26=-158/1049, 13-26=-887/290, 13-25=-109/682, 14-25=-525/189, 14-23=-85/311, 17-21=-911/214, 9-29=-2336/421, 11-27=-1280/359, 16-34=-251/103, 15-34=-942/185, 34-35=-1065/211, 22-35=-1092/213

NOTES-

1) 2x4 SPF No.2 bearing block 12" long at jt. 29 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.

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

3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 1-1-1 to 4-8-9 to 28-1-0, Exterior(2R) 28-1-0 to 33-10-10, Interior(1) 33-10-10 to 59-0-11 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

4) All plates are 3x6 MT20 unless otherwise indicated.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22 except (jt=lb) 2=116, 29=481, 21=134.

Continued on page 2



EXPIRES: Jun 30, 2026

November 20, 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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Roseville, CA 95661
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Job 24-1180-E	Truss B106	Truss Type Roof Special	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443103
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:45 2024 Page 2

ID:3mCmX7wpmmbw7h639aarmzZihj-otYs9T6ApMYHVo5kkYg?96W0V2xelSwuiKlc2CyHHX4

NOTES-

8) 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.



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 24-1180-E	Truss B400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443104
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:46 2024 Page 1

-1-0-0 2-0-0 6-0-0 10-0-0 12-0-0 13-0-0
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Scale = 1:27.7

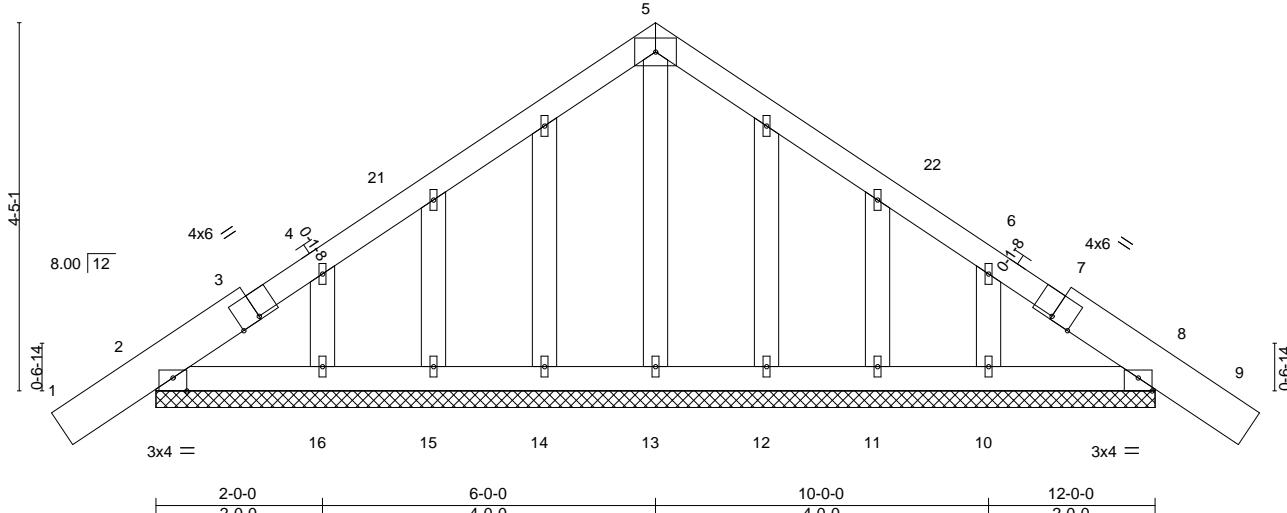


Plate Offsets (X,Y)-- [2:0-2-0,Edge], [8:0-2-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	-0.00	9	n/r	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	-0.00	9	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.11	Horz(CT)	0.00	13	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S					Weight: 56 lb	FT = 20%

LUMBER-TOP CHORD 2x6 SPF 1650F 1.5E *Except*
3-5,5-7: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 HF/SPF Stud/Std

OTHERS 2x4 SPF Utility

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. All bearings 12-0-0.

(lb) - Max Horz 2=104(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) except 2=551(LC 35), 8=551(LC 36), 16=125(LC 36),
10=125(LC 35)

Max Grav All reactions 250 lb or less at joint(s) 13, 14, 15, 12, 11, 16, 10 except 2=596(LC 34), 8=584(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=959/908, 4-5=-661/635, 5-6=-662/638, 6-8=-921/869

BOT CHORD 2-16=706/781, 15-16=-486/548, 14-15=-330/392, 11-12=-330/392, 10-11=-486/548,

8-10=-719/758

WEBS 4-16=-262/209, 6-10=-278/192

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 1-1-8 to 2-0-0, Interior(1) 2-0-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 1x3 MT20 unless otherwise indicated.

5) Cable requires continuous bottom chord bearing.

6) Gable studs spaced at 1-4-0 oc.

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

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 551 lb uplift at joint 2, 551 lb uplift at joint 8, 125 lb uplift at joint 16 and 125 lb uplift at joint 10.

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

11) This truss has been designed for a total drag load of 1400 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 12-0-0 for 116.7 plf.



EXPIRES: Jun 30, 2026

November 20,2024

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 24-1180-E	Truss B401	Truss Type COMMON	Qty 6	Ply 1	4-Plex-A - Farmhouse-Roof	R85443105
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:46 2024 Page 1

ID:3mCmX7wpmbwy7h639aarmzZihj-G46EMp7oafg87xfxFCEiJ3GOSLWU7F2x_29afyHHX3

-1-0-0 6-0-0 12-0-0 13-0-0
1-0-0 6-0-0 6-0-0 1-0-0

Scale = 1:28.3

4x6 =

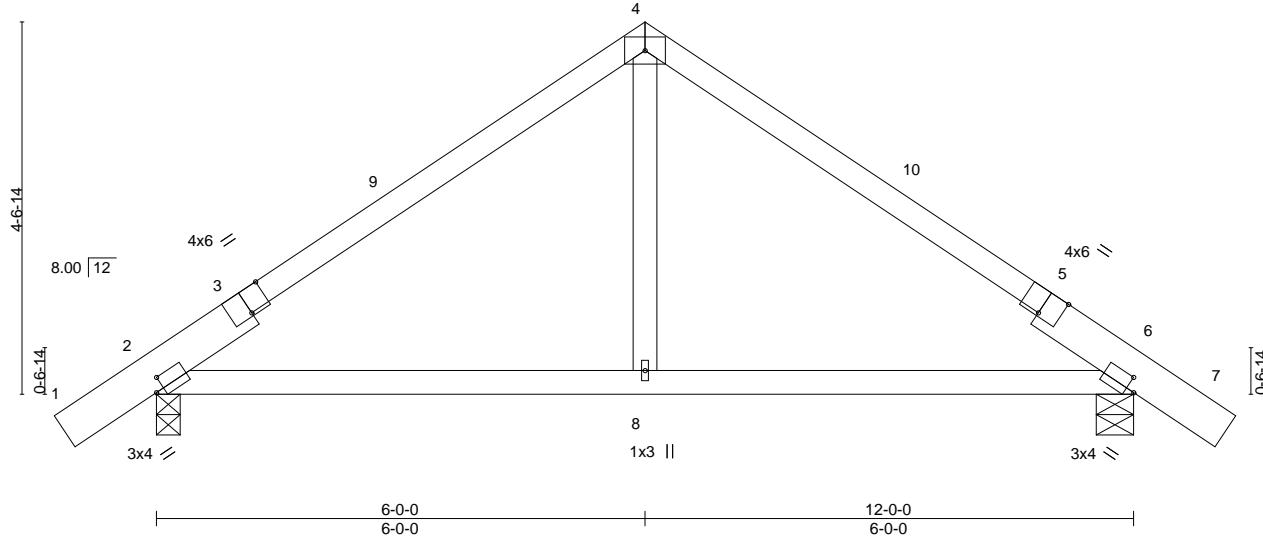


Plate Offsets (X,Y)-- [2:0-1-4,0-1-14], [3:0-3-0,Edge], [5:0-3-0,Edge], [6:0-1-4,0-1-14]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.31	Vert(LL)	-0.03	2-8	>999	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.27	Vert(CT)	-0.05	2-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	6	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	-0.02	2-8	>999	240	Weight: 42 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E *Except*
4-5,3-4: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-

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

REACTIONS. (size) 2=0-3-8, 6=0-5-8
Max Horz 2=-108(LC 10)
Max Uplift 2=-114(LC 12), 6=-118(LC 12)
Max Grav 2=506(LC 1), 6=512(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=515/159, 4-6=517/159
BOT CHORD 2-8=0/332, 6-8=0/332

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-8 to 1-10-8, Interior(1) 1-10-8 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 2 and 118 lb uplift at joint 6.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss B402	Truss Type COMMON	Qty 2	Ply 1	4-Plex-A - Farmhouse-Roof	R85443106
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:47 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-kGgdZ97RLzo?k5E7szjTFXcOTrhXDZRB9enj65yHHX2

6'-0" 6'-0" 12'-0" 6'-0" 13'-0" 1'-0"

Scale = 1:27.7

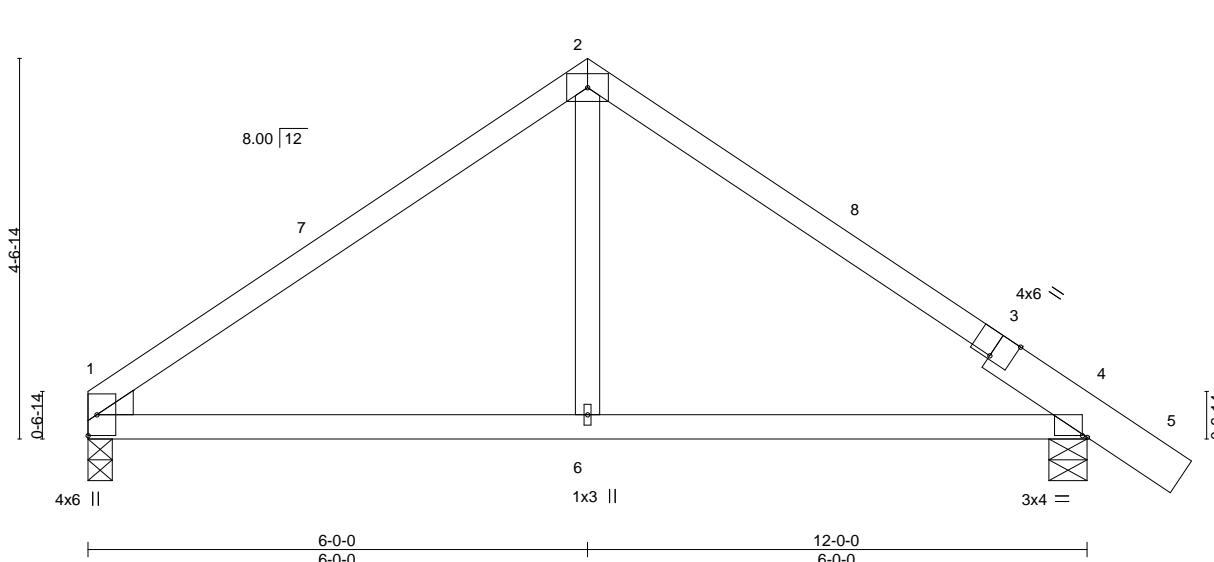


Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-0-11,0-0-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	-0.03	1-6	>999	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.28	Vert(CT)	-0.06	1-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.02	1-6	>999	240	Weight: 39 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2 *Except*
 3-5: 2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 HF/SPF Stud/Std
 WEDGE Left: 2x4 HFSPF Stud/Std

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) 4=0-5-8, 1=0-3-8
 Max Horz 1=-104(LC 10)
 Max Uplift 4=-121(LC 12), 1=-64(LC 12)
 Max Grav 4=516(LC 1), 1=425(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-507/157, 2-4=-526/163
 BOT CHORD 1-6=0/340, 4-6=0/340

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 4 and 64 lb uplift at joint 1.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



EXPIRES: Jun 30, 2026
 November 20,2024

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Job 24-1180-E	Truss B410	Truss Type GABLE	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443107
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Madera Comp Az, PHOENIX, AZ - 85043,

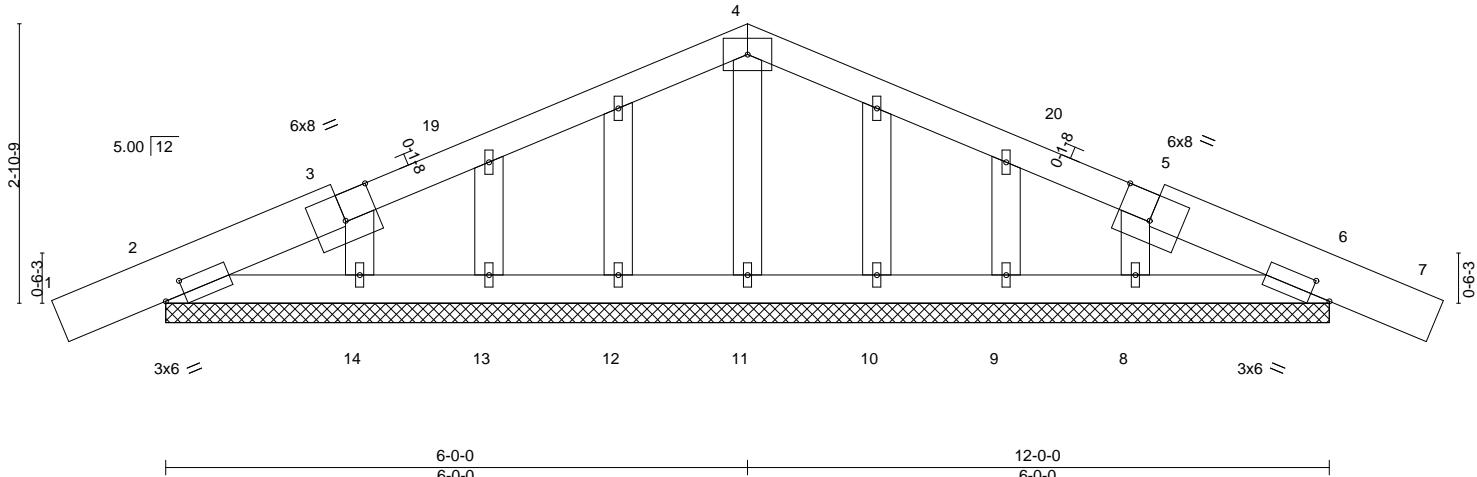
8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:48 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-CSE?nU836GwsMFpJQgEink8acF_y2?LOIXGeXyHHX1

-1-0-0 6-0-0 12-0-0 13-0-0
1-0-0 6-0-0 6-0-0 1-0-0

Scale: 1/2"=1'

4x6 =



6-0-0 12-0-0
6-0-0 6-0-0

Plate Offsets (X,Y)-- [2:0-2-8,0-1-12], [3:0-4-0,Edge], [5:0-4-0,Edge], [6:0-2-8,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.33	Vert(LL)	0.02	7	n/r	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	0.03	7	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	10	n/a		
BCDL 7.0	Code	IRC2018/TPI2014	Matrix-S					Weight: 46 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E *Except*
3-4-4-5: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 SPF Utility

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.

- All bearings 12-0-0.
- (lb) - Max Horz 2=41(LC 33)
Max Uplift All uplift 100 lb or less at joint(s) 11, 13, 14, 9, 8 except 2=-419(LC 35), 6=-419(LC 36)
Max Grav All reactions 250 lb or less at joint(s) 11, 12, 13, 14, 10, 9, 8 except 2=443(LC 44), 6=443(LC 43)

FORCES.

- (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 2-4=-979/934, 4-6=-978/947
- BOT CHORD 2-14=-786/839, 13-14=-553/606, 12-13=-397/446, 11-12=-226/295, 10-11=-226/295,
9-10=-397/451, 8-9=-553/606, 6-8=-786/839

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1 to 1-10-15, Interior(1) 1-10-15 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-1-1 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.
- 4) All plates are 1x3 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 13, 14, 9, 8 except (jt=lb) 2=419, 6=419.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss has been designed for a total drag load of 1400 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 12-0-0 for 116.7 plf.



EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss B411	Truss Type COMMON	Qty 2	Ply 1	4-Plex-A - Farmhouse-Roof	R85443108
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:48 2024 Page 1
ID:3mCmX7wpmmbw7h639aarmzZihj-CSE?nU836GwsMFpJQgEink8ZLF1Qy0iLOIXGeXyHHX1

6'-0"-0" 12'-0"-0" 13'-0"-0"
6'-0"-0" 6'-0"-0" 1'-0"-0"

Scale = 1:21.8

4x6 =

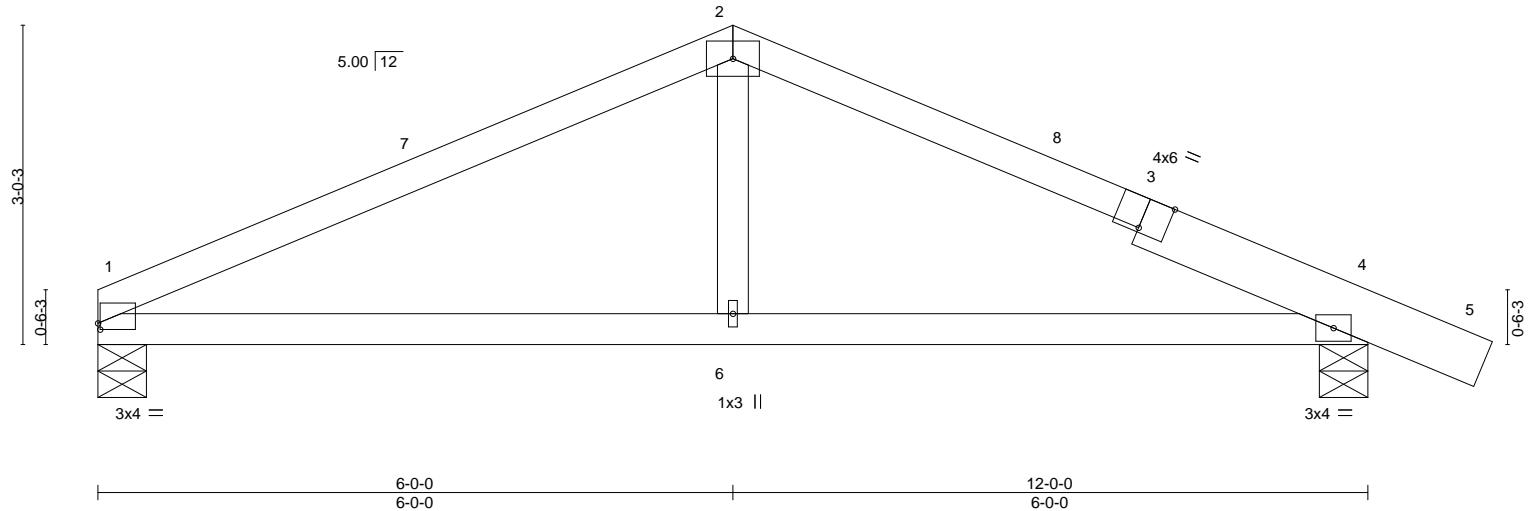


Plate Offsets (X,Y)-- [1:0-0-4,0-0-11], [3:0-3-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.41	Vert(LL)	-0.03	1-6	>999	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.31	Vert(CT)	-0.06	1-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.02	1-6	>999	240	Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
3-5: 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

REACTIONS.

(size) 1=0-5-8, 4=0-5-8
Max Horz 1=-44(LC 10)
Max Uplift 1=-64(LC 12), 4=-118(LC 12)
Max Grav 1=423(LC 1), 4=511(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-631/279, 2-4=-642/273
BOT CHORD 1-6=-147/507, 4-6=-147/507

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-1-1 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
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=118.
- 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.

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.



EXPIRES: Jun 30, 2026
November 20,2024

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BCDL 7.0 Code IRC2018/TP12014 Matrix-S Weight: 80 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF 1650F 1.5E *Except* 3-5: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 9-10,8-9.
WEBS	2x4 HF/SPF Stud/Std		
OTHERS	2x4 SPF Utility		

REACTIONS. All bearings 14-3-0.
(lb) - Max Horz 2=237(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 12, 13 except 6=-188(LC 30), 2=-251(LC 35), 10=-293(LC 35)
Max Grav All reactions 250 lb or less at joint(s) 7, 8, 9, 11, 12, 13 except 6=255(LC 31), 2=315(LC 34),
10=410(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-4=-644/434, 4-5=-451/338
BOT CHORD	2-13=-581/476, 12-13=-435/330, 11-12=-379/273, 10-11=-317/218, 9-10=-266/212, 8-9=-264/212, 7-8=-320/212, 6-7=-430/325
WEBS	4-10=-452/426, 4-6=-403/379

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 14-1-4 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
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 1x3 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 1-4-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8, 12, 13 except (jt=lb) 6=188, 2=251, 10=293.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) This truss has been designed for a total drag load of 600 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 14-3-0 for 42.1 plf.



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Job
24-1180-E

Truss
C101

Truss Type
MONOPITCH GIRDER

Qty
3

Ply
1

4-Plex-A - Farmhouse-Roof

R85443110

Madera Comp Az,
PHOENIX, AZ - 85043,

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ID:3mCmX7wpmmbwy7h639aarmzZihj-8rMICAJeuAacZziX5GAs9Eos3bnQnZesc0NjQyHHX?

3-11-8 | 9-0-0 | 11-6-12 | 14-3-0
3-11-8 | 5-0-8 | 2-6-12 | 2-8-4

3x4 || 4

Scale = 1:38.7

6.5'7

0'6.3

5.00 [12]

5x8 = 2

7x8 = 3

10 = 4

11 = 5

12 = 6

13 = 7

14 = 8

15 = 9

16 = 10

6 = 11

8x8 = 12

5x12 M18AHS = 13

LUS26 = 14

3x12 || = 15

LUS26 = 16

LUS24 = 17

LUS24 = 18

LUS24 = 19

LUS26 = 20

LUS26 = 21

10x10 = 22

LUS24 = 23

3-11-8 | 9-0-0 | 11-6-12 | 14-3-0
3-11-8 | 5-0-8 | 2-6-12 | 2-8-4

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

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.86	Vert(LL)	-0.12	7-8	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.82	Vert(CT)	-0.24	7-8	>700	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.75	Horz(CT)	0.05	5	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.10	7-8	>999	240	Weight: 75 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x6 DF SS

WEBS 2x4 SPF No.2 *Except*
4-5,2-7: 2x4 HF/SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-9-4 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-11-13 oc bracing
WEBS 1 Row at midpt 2-7, 3-5

REACTIONS.

Max Horz 1=276(LC 34)

Max Uplift 1=-686(LC 35)

Max Split
Max Gray

Max Grav 1-3452(EZ 2)

Max Comp / Max Top - All f

TOP CHOICE
BEST SHIRT

BOT CHORD 1-8-1492/5274, 7-8-1492/5274, 5-7-1125/2875
WEBS 2-8-201/1949, 2-7-2543/490, 3-7-386/3055, 3-5-3589/647

NOTES—

1) 2x6 DE SS bearing block 12" long at it. F attached to front face with

1) 2x6 DF SS bearing block 12" long at jt. 5 attached to front face with 3 rows of
fasteners. Holes for pins and bearing block to be 1/2" dia.

2) Wind:

- II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 14-1-4 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

 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except ($j=t=lb$)
 $1=686, 5=389$.
 - 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.
 - 8) This truss has been designed for a total drag load of 600 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 12-9-0 to 14-3-0 for 400.0 plf.
 - 9) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-11-12 from the left end to 4-11-12 to connect truss(es) to front face of bottom chord.
 - 10) Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-11-12 from the left end to 8-11-12 to connect truss(es) to front face of bottom chord.
 - 11) Use Simpson Strong-Tie LUS24 (4-10dx1 1/2 Girder, 2-10d Truss, Single Ply Girder) or equivalent at 10-11-12 from the left end to connect truss(es) to front face of bottom chord.
 - 12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 12-11-12 from the left end to connect truss(es) to front face of bottom chord.
 - 13) Fill all voided areas under joists and trusses with insulation.



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Job 24-1180-E	Truss C101	Truss Type MONOPITCH GIRDER	Qty 3	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443110
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Madera Comp Az, PHOENIX, AZ - 85043,

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NOTES-

- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=60, 1-5=14

Concentrated Loads (lb)

Vert: 7=-685(F) 11=-838(F) 12=-836(F) 13=-836(F) 14=-685(F) 15=-589(F) 16=-589(F)



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Plate Offsets (X,Y)-- [2:0-5-8,Edge], [3:0-3-0,0-1-0], [6:0-8-0,0-0-12], [17:0-3-0,0-3-0]										
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.79	Vert(LL)	-0.10	19-55	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.17	19-55	>811	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.38	Horz(CT)	0.04	11	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-MS	Wind(LL)	0.13	19-55	>999	240	Weight: 190 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD	Structural wood sheathing directly applied or 3-6-5 oc purlins.
5-7: 2x6 SPF 1650F 1.5E	Rigid ceiling directly applied or 4-9-5 oc bracing.
BOT CHORD	1 Row at midpt
2x4 SPF No.2	3-13
WEBS	
2x4 HF/SPF Stud/Std *Except*	
3-13,3-19: 2x4 SPF No.2	
OTHERS	
2x4 SPF Utility	
WEDGE	
Left: 2x4 HFSPE Stud/Std	

REACTIONS. All bearings 14-9-8 except (it=length) 1=0-5-8, 18=0-3-8, 18=0-3-8.

INS: All bearings 14-3-3 except (J=length) 1=0-3-3, 10=0-3-3, 18=0-3-3.

(lb) - Max Horz 1=247(LC 32)
Max Uplift All uplift 100 lb or less at joint(s) 13, 16, 15, 10, 9 except 6=-953(LC 36), 8=-152(LC 35), 1=-784(LC 35)
Max Grav All reactions 250 lb or less at joint(s) 16, 15, 14, 12, 11, 10, 9, 18, 6 except 6=972(LC 33), 13=1008(LC 1), 8=257(LC 18), 1=1307(LC 32), 18=260(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=2177/1234, 2-3=1509/638, 3-4=821/891, 4-6=1511/1480
BOT CHORD	1-19=1023/1887, 18-19=-1121/1536, 16-18=-1121/1536, 15-16=-662/1077, 14-15=416/854, 13-14=-215/631, 10-11=-369/403, 9-10=-593/626, 8-9=-816/849, 6-8=-1166/1200
WERS	3-13=-827/0, 4-13=-381/219, 3-19=-121/867, 2-19=-523/171

NOTES-

1) Unbal

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 13-2-0, Exterior(2R) 13-2-0 to 16-2-0, Interior(1) 16-2-0 to 27-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 1-4-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 16, 15, 10, 9 except (jt=lb) 6=953, 8=152, 1=784, 6=953.



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Job 24-1180-E	Truss C400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443111
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NOTES-

- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 12) This truss has been designed for a total drag load of 2400 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 12-0-0 to 26-4-0 for 167.4 plf.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-56=-60, 3-7=-60, 19-53=-14, 17-50=-14, 2-19=-30
 Trapezoidal Loads (plf)
 Vert: 56=-90-to-3=-105, 19=-44-to-17=-59
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-56=-52, 3-7=-52, 19-53=-29, 15-17=-44, 15-50=-29, 2-19=-30
 Trapezoidal Loads (plf)
 Vert: 56=-82-to-3=-97, 19=-59-to-59=-66, 59=-81-to-17=-89
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-56=-28, 3-7=-28, 19-53=-34, 17-50=-34, 2-19=-30
 Trapezoidal Loads (plf)
 Vert: 56=-58-to-3=-73, 19=-64-to-17=-79
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-56=20, 3-58=27, 6-58=20, 6-7=14, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-3=32, 3-58=39, 6-58=32, 6-7=26
 Trapezoidal Loads (plf)
 Vert: 56=-10-to-3=-25, 19=-38-to-17=-53
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-56=20, 3-6=20, 6-7=40, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-57=-32, 3-57=-39, 3-6=32, 6-7=52
 Trapezoidal Loads (plf)
 Vert: 56=-10-to-57=-16, 57=-9-to-3=-18, 19=-38-to-17=-53
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-56=-50, 3-6=-50, 6-7=-44, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-3=22, 3-6=22, 6-7=16
 Trapezoidal Loads (plf)
 Vert: 56=-80-to-3=-95, 19=-44-to-17=-59
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-56=-50, 3-6=-50, 6-7=-12, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-3=22, 3-6=22, 6-7=16
 Trapezoidal Loads (plf)
 Vert: 56=-80-to-3=-95, 19=-44-to-17=-59
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-56=0, 3-6=11, 6-7=5, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-3=12, 3-6=23, 6-7=17
 Trapezoidal Loads (plf)
 Vert: 56=-30-to-3=-45, 19=-38-to-17=-53
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-56=11, 3-6=0, 6-7=16, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-3=-23, 3-6=12, 6-7=28
 Trapezoidal Loads (plf)
 Vert: 56=-19-to-3=-34, 19=-38-to-17=-53
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-56=-40, 3-6=-17, 6-7=-11, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-3=12, 3-6=11, 6-7=17
 Trapezoidal Loads (plf)
 Vert: 56=-70-to-3=-85, 19=-44-to-17=-59
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-56=-17, 3-6=-40, 6-7=-34, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-3=-11, 3-6=12, 6-7=6
 Trapezoidal Loads (plf)
 Vert: 56=-47-to-3=-62, 19=-44-to-17=-59
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-56=20, 3-6=20, 6-7=36, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-3=32, 3-6=32, 6-7=48
 Trapezoidal Loads (plf)
 Vert: 56=-10-to-3=-25, 19=-38-to-17=-53

Continued on page 3

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Job 24-1180-E	Truss C400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443111
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8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:51 2024 Page 3
ID:3mCmX7wpmmbwy7h639aarmzZihj-c1w7PWbxBIRDjYu5onPPNm_cTwa9KWN4GiwFsyHHX_**LOAD CASE(S)** Standard

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-56=8, 3-6=8, 6-7=25, 19-53=-8, 17-50=-8, 2-19=-30

Horz: 1-3=20, 3-6=20, 6-7=37

Trapezoidal Loads (plf)

Vert: 56=-22-to-3=-37, 19=-38-to-17=-53

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-56=-29, 3-6=-29, 6-7=-23, 19-53=-14, 17-50=-14, 2-19=-30

Horz: 1-3=1, 3-6=-1, 6-7=5

Trapezoidal Loads (plf)

Vert: 56=-59-to-3=-74, 19=-44-to-17=-59

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-56=-29, 3-6=-29, 6-7=-23, 19-53=-14, 17-50=-14, 2-19=-30

Horz: 1-3=1, 3-6=-1, 6-7=5

Trapezoidal Loads (plf)

Vert: 56=-59-to-3=-74, 19=-44-to-17=-59

16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-56=-28, 3-7=-28, 19-53=-34, 15-17=-54, 15-50=-34, 2-19=-30

Trapezoidal Loads (plf)

Vert: 56=-58-to-3=-73, 19=-64-to-59=-71, 59=-91-to-17=-99

17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-56=-61, 3-6=-44, 6-7=-40, 19-53=-29, 15-17=-44, 15-50=-29, 2-19=-30

Horz: 1-3=9, 3-6=8, 6-7=12

Trapezoidal Loads (plf)

Vert: 56=-91-to-3=-106, 19=-59-to-59=-66, 59=-81-to-17=-89

18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-56=-44, 3-6=-61, 6-7=-56, 19-53=-29, 15-17=-44, 15-50=-29, 2-19=-30

Horz: 1-3=-8, 3-6=-9, 6-7=-4

Trapezoidal Loads (plf)

Vert: 56=-74-to-3=-89, 19=-59-to-59=-66, 59=-81-to-17=-89

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-56=-53, 3-6=-53, 6-7=-48, 19-53=-29, 15-17=-44, 15-50=-29, 2-19=-30

Horz: 1-3=1, 3-6=-1, 6-7=4

Trapezoidal Loads (plf)

Vert: 56=-83-to-3=-98, 19=-59-to-59=-66, 59=-81-to-17=-89

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-56=-53, 3-6=-53, 6-7=-48, 19-53=-29, 15-17=-44, 15-50=-29, 2-19=-30

Horz: 1-3=1, 3-6=-1, 6-7=4

Trapezoidal Loads (plf)

Vert: 56=-83-to-3=-98, 19=-59-to-59=-66, 59=-81-to-17=-89

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-56=-28, 3-7=-28, 19-53=-8, 17-50=-8, 2-19=-30

Horz: 1-3=16, 3-7=-16

Trapezoidal Loads (plf)

Vert: 56=-58-to-3=-73, 19=-38-to-17=-53

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-56=4, 3-7=4, 19-53=-8, 17-50=-8, 2-19=-30

Horz: 1-3=16, 3-7=16

Trapezoidal Loads (plf)

Vert: 56=-26-to-3=-41, 19=-38-to-17=-53

23) Dead + 0.6 C-C Wind (Pos. Internal) Case 2 + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=81, 2-54=80, 2-56=80, 3-5=-41, 5-51=-37, 6-51=-41, 6-7=40, 19-53=-8, 17-50=-8, 2-19=-30

Horz: 1-54=105, 2-54=107, 2-57=107, 3-57=101, 3-5=169, 5-51=178, 6-51=169, 6-7=52

Drag: 18-50=167

Trapezoidal Loads (plf)

Vert: 56=50-to-57=44, 57=50-to-3=41, 19=-38-to-17=-53

24) Dead + 0.6 C-C Wind (Pos. Internal) Case 2 + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=-41, 2-54=40, 2-56=-40, 3-5=-81, 5-51=77, 6-51=-81, 6-7=40, 19-53=-8, 17-50=-8, 2-19=-30

Horz: 1-54=169, 2-54=-171, 2-57=-171, 3-57=-178, 3-5=-105, 5-51=-114, 6-51=-105, 6-7=52

Drag: 18-50=167

Trapezoidal Loads (plf)

Vert: 56=-70-to-57=-76, 57=-69-to-3=-78, 19=-38-to-17=-53

25) Dead + 0.6 C-C Wind (Neg. Internal) Case 2 + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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Job 24-1180-E	Truss C400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443111
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:51 2024 Page 4
ID:3mCmX7wpmmbwy7h639aarmzZihj-c1w7PBWxPBIRDjYu5onPPNm_cTwa9KWN4GlwFsyHHX_**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-54=11, 2-54=9, 2-56=10, 3-5=-111, 5-51=-107, 6-51=-111, 6-7=-12, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-54=159, 2-54=161, 2-3=161, 3-5=115, 5-51=124, 6-51=115, 6-7=16

Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=-20-to-3=-35, 19=-44-to-17=-59

26) Dead + 0.6 C-C Wind (Neg. Internal) Case 2 + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=-111, 2-54=-110, 2-56=-110, 3-5=11, 5-51=7, 6-51=11, 6-7=-12, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-54=-115, 2-54=-117, 2-3=-117, 3-5=-159, 5-51=-168, 6-51=-159, 6-7=16

Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=-140-to-3=-155, 19=-44-to-17=-59

27) Dead + 0.6 MWFRS Wind (Pos. Internal) Left + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=61, 2-54=60, 2-56=60, 3-5=-50, 5-51=-46, 6-51=-50, 6-7=5, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-54=125, 2-54=127, 2-3=127, 3-5=159, 5-51=168, 6-51=159, 6-7=17

Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=30-to-3=15, 19=-38-to-17=-53

28) Dead + 0.6 MWFRS Wind (Pos. Internal) Left + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=-61, 2-54=-60, 2-56=-60, 3-5=71, 5-51=67, 6-51=71, 6-7=5, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-54=-149, 2-54=-151, 2-3=-151, 3-5=-114, 5-51=-123, 6-51=-114, 6-7=17

Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=-90-to-3=-105, 19=-38-to-17=-53

29) Dead + 0.6 MWFRS Wind (Pos. Internal) Right + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=71, 2-54=70, 2-56=70, 3-5=-61, 5-51=-57, 6-51=-61, 6-7=16, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-54=114, 2-54=117, 2-3=117, 3-5=149, 5-51=158, 6-51=149, 6-7=28

Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=40-to-3=25, 19=-38-to-17=-53

30) Dead + 0.6 MWFRS Wind (Pos. Internal) Right + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=-50, 2-54=-49, 2-56=-49, 3-5=61, 5-51=57, 6-51=61, 6-7=16, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-54=-159, 2-54=-162, 2-3=-162, 3-5=-125, 5-51=-134, 6-51=-125, 6-7=28

Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=-79-to-3=-94, 19=-38-to-17=-53

31) Dead + 0.6 MWFRS Wind (Neg. Internal) Left + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=21, 2-54=20, 2-56=20, 3-5=-78, 5-51=-74, 6-51=-78, 6-7=-11, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-54=148, 2-54=151, 2-3=151, 3-5=147, 5-51=157, 6-51=147, 6-7=17

Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=-10-to-3=-25, 19=-44-to-17=-59

32) Dead + 0.6 MWFRS Wind (Neg. Internal) Left + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=-100, 2-54=-99, 2-56=-99, 3-5=44, 5-51=40, 6-51=44, 6-7=-11, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-54=-125, 2-54=-128, 2-3=-128, 3-5=-126, 5-51=-135, 6-51=-126, 6-7=17

Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=-129-to-3=-144, 19=-44-to-17=-59

33) Dead + 0.6 MWFRS Wind (Neg. Internal) Right + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=44, 2-54=42, 2-56=42, 3-5=-100, 5-51=-97, 6-51=-100, 6-7=-34, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-54=126, 2-54=128, 2-3=128, 3-5=125, 5-51=134, 6-51=125, 6-7=-6

Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=12-to-3=-3, 19=-44-to-17=-59

34) Dead + 0.6 MWFRS Wind (Neg. Internal) Right + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=-78, 2-54=-77, 2-56=-77, 3-5=21, 5-51=17, 6-51=21, 6-7=-34, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-54=-147, 2-54=-150, 2-3=-150, 3-5=-148, 5-51=-158, 6-51=-148, 6-7=-6

Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=-107-to-3=-122, 19=-44-to-17=-59

35) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=81, 2-54=80, 2-56=80, 3-5=-41, 5-51=-37, 6-51=-41, 6-7=36, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-54=105, 2-54=107, 2-3=107, 3-5=169, 5-51=178, 6-51=169, 6-7=48

Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=50-to-3=35, 19=-38-to-17=-53

Continued on page 5

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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss C400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443111
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:51 2024 Page 5

ID:3mCmX7wpmmbw7h639aarmzZihj-c1w7PWbxBIRDjYu5onPPNm_cTwa9KWN4GiwFsyHHX_

LOAD CASE(S) Standard

36) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=-41, 2-54=-40, 2-56=-40, 3-5=81, 5-51=77, 6-51=81, 6-7=36, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-54=-169, 2-54=-171, 2-3=-171, 3-5=-105, 5-51=-114, 6-51=-105, 6-7=48
 Drag: 18-50=167

Trapezoidal Loads (plf)

Vert: 56=-70-to-3=-85, 19=-38-to-17=-53

37) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=-69, 2-54=68, 2-56=68, 3-5=-52, 5-51=-49, 6-51=-52, 6-7=25, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-54=116, 2-54=119, 2-3=119, 3-5=157, 5-51=166, 6-51=157, 6-7=37
 Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=-38-to-3=23, 19=-38-to-17=-53

38) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=-52, 2-54=-51, 2-56=-51, 3-5=69, 5-51=65, 6-51=69, 6-7=25, 19-53=-8, 17-50=-8, 2-19=-30
 Horz: 1-54=-157, 2-54=-160, 2-3=-160, 3-5=-116, 5-51=-126, 6-51=-116, 6-7=37
 Drag: 18-50=167

Trapezoidal Loads (plf)

Vert: 56=-81-to-3=-96, 19=-38-to-17=-53

39) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=32, 2-54=31, 2-56=31, 3-5=-90, 5-51=-86, 6-51=-90, 6-7=-23, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-54=138, 2-54=140, 2-3=140, 3-5=136, 5-51=145, 6-51=136, 6-7=5
 Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=1-to-3=-14, 19=-44-to-17=-59

40) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=-90, 2-54=-89, 2-56=-89, 3-5=32, 5-51=28, 6-51=32, 6-7=-23, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-54=-136, 2-54=-138, 2-3=-138, 3-5=-138, 5-51=-147, 6-51=-138, 6-7=5
 Drag: 18-50=167

Trapezoidal Loads (plf)

Vert: 56=-119-to-3=-134, 19=-44-to-17=-59

41) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=32, 2-54=31, 2-56=31, 3-5=-90, 5-51=-86, 6-51=-90, 6-7=-23, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-54=138, 2-54=140, 2-3=140, 3-5=136, 5-51=145, 6-51=136, 6-7=5
 Drag: 18-50=-167

Trapezoidal Loads (plf)

Vert: 56=1-to-3=-14, 19=-44-to-17=-59

42) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=-90, 2-54=-89, 2-56=-89, 3-5=32, 5-51=28, 6-51=32, 6-7=-23, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-54=-136, 2-54=-138, 2-3=-138, 3-5=-138, 5-51=-147, 6-51=-138, 6-7=5
 Drag: 18-50=167

Trapezoidal Loads (plf)

Vert: 56=-119-to-3=-134, 19=-44-to-17=-59

43) Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=33, 2-54=32, 2-56=32, 3-5=-89, 5-51=-85, 6-51=-89, 6-7=-28, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-54=137, 2-54=139, 2-3=139, 3-5=137, 5-51=146, 6-51=137
 Drag: 18-50=167

Trapezoidal Loads (plf)

Vert: 56=2-to-3=-13, 19=-44-to-17=-59

44) Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=-89, 2-54=-88, 2-56=-88, 3-5=33, 5-51=29, 6-51=33, 6-7=-28, 19-53=-14, 17-50=-14, 2-19=-30
 Horz: 1-54=-137, 2-54=-139, 2-3=-139, 3-5=-137, 5-51=-146, 6-51=-137
 Drag: 18-50=167

Trapezoidal Loads (plf)

Vert: 56=-118-to-3=-133, 19=-44-to-17=-59

45) 0.6 Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-54=44, 2-54=43, 2-56=43, 3-5=-78, 5-51=-74, 6-51=-78, 6-7=-17, 19-53=-8, 17-50=-8, 2-19=-18
 Horz: 1-54=137, 2-54=139, 2-3=139, 3-5=137, 5-51=146, 6-51=137
 Drag: 18-50=167

Trapezoidal Loads (plf)

Vert: 56=25-to-3=16, 19=-26-to-17=-35

46) 0.6 Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

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Job 24-1180-E	Truss C400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443111
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8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:51 2024 Page 6
ID:3mCmX7wpmmbwy7h639aarmzZihj-c1w7PWbxPBIRDjYu5onPPNm_cTwa9KWn4GlwFsyHHX_**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-54=-78, 2-54=-76, 2-56=-76, 3-5=44, 5-51=40, 6-51=44, 6-7=-17, 19-53=-8, 17-50=-8, 2-19=-18
Horz: 1-54=-137, 2-54=-139, 2-3=-139, 3-5=-137, 5-51=-146, 6-51=-137

Drag: 18-50=167

Trapezoidal Loads (plf)

Vert: 56=-94-to-3=-103, 19=-26-to-17=-35

47) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-56=-60, 3-7=-28, 19-53=-14, 17-50=-14, 2-19=-30

Trapezoidal Loads (plf)

Vert: 56=-90-to-3=-105, 19=-44-to-17=-59

48) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-56=-28, 3-7=-60, 19-53=-14, 17-50=-14, 2-19=-30

Trapezoidal Loads (plf)

Vert: 56=-58-to-3=-73, 19=-44-to-17=-59

49) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-56=-52, 3-7=-28, 19-53=-29, 15-17=-44, 15-50=-29, 2-19=-30

Trapezoidal Loads (plf)

Vert: 56=-82-to-3=-97, 19=-59-to-59=-66, 59=-81-to-17=-89

50) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-56=-28, 3-7=-52, 19-53=-29, 15-17=-44, 15-50=-29, 2-19=-30

Trapezoidal Loads (plf)

Vert: 56=-58-to-3=-73, 19=-59-to-59=-66, 59=-81-to-17=-89

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Job 24-1180-E	Truss C401	Truss Type COMMON	Qty 28	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443112
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Madera Comp Az, PHOENIX, AZ - 85043,

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L-FL-202-ZILL-MIETEK-12-14-2024-100-SP-6-L-VT-L-LLUM

R85443112

0-0-4	6-8-0	13-2-0	19-8-0	26-4-0	27-4-0
0-0-4	6-7-12	6-6-0	6-6-0	6-8-0	1-0-0

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L-FL-202-ZILL-MIETEK-12-14-2024-100-SP-6-L-VT-L-LLUM

26-1-0 27-1-0

Scale = 1:58.3

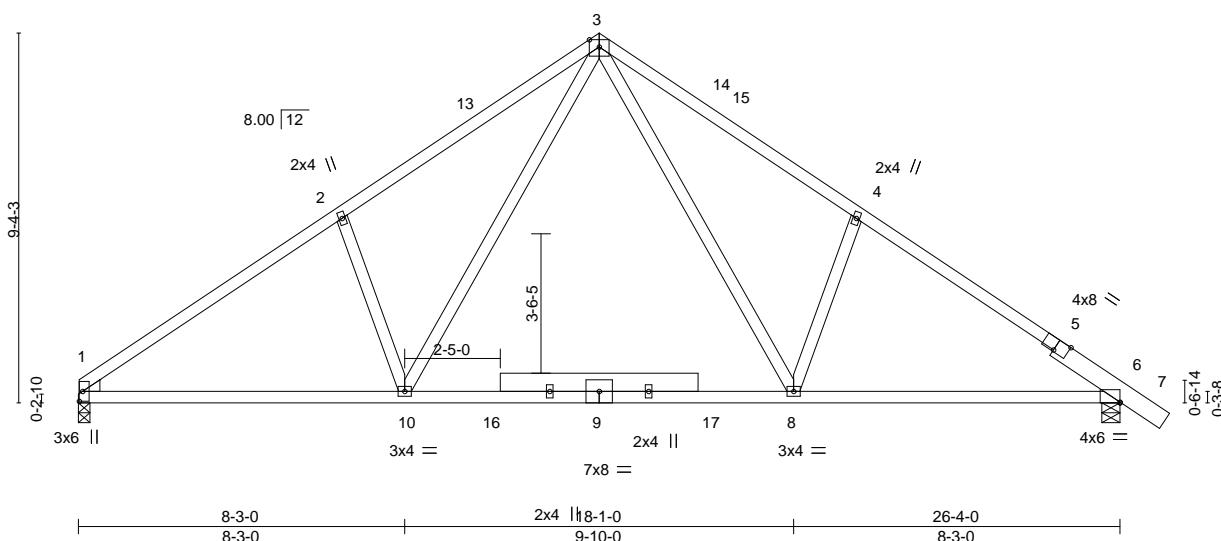


Plate Offsets (X,Y)-- [1:0-3-0,0-1-0], [5:0-4-0,Edge], [6:Edge,0-0-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.80	Vert(LL)	-0.39	8-10	>802	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.83	Vert(CT)	-0.56	8-10	>558	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.05	6	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05	1-10	>999	240	Weight: 113 lb	FT = 20%

LUMBER-

LUMBER
TOP CHORD 2x4 SPF No.2 *Except*
5-7: 2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*
11-12: 2x6 SPF 1650F 1.5E

WEBS 2x4 SPF No.2 *Except*
4-8,2-10: 2x4 HF/SPF Stud/Std

WEDGE

Left: 2x4 HFSPF Stud/Std

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

REACTIONS

REACTIONS: (size) 1=0-3-8, 0=0-3-8
Max Horz 1=210(LC 10)

Max Uplift 1=-82(LC 12)

Max Gray 1=1190(LC 17) 6=1284(LC 18)

Max Grav = 11150 (ES 17), 0 = 1204 (ES 18)

FORCES
TOB CH

- TOP CHORD** 1-2=-1694/149, 2-3=-1617/232, 3-4=-1602/244, 4-5=-1704/115
BOT CHORD 1-10=-11/1467, 8-10=0/979, 6-8=0/1316
WEBS 3-8=-116/745, 4-8=-359/188, 3-10=-157/776, 2-10=-354/230

NOTES-

 - 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-2-0, Exterior(2R) 13-2-0 to 16-2-0, Interior(1) 16-2-0 to 27-5-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 150.0lb AC unit load placed on the top chord, 14-5-0 from left end, supported at two points, 2-6-0 apart.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except ($j=t=l$) $l=120$.
 - 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



EXPIRES: Jun 30, 2026
November 20, 2024



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MI-74/75 rev. 11/2023 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/TP1 Quality Criteria and DSE-22**, available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information**, available from the Structural Building Components Association (www.sbcsccomponents.com).

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Job 24-1180-E	Truss C402	Truss Type ROOF SPECIAL GIRDER	Qty 4	Ply 3	4-Plex-A - Farmhouse-Roof	R85443113
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:53 2024 Page 2
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NOTES-

- 9) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-1-4 from the left end to 16-7-4 to connect truss(es) to back face of bottom chord.
- 10) Use Simpson Strong-Tie HGUS26 (20-SD10212 Girder, 8-SD10212 Truss) or equivalent at 18-7-4 from the left end to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 8-14=-14, 5-7=-60

Concentrated Loads (lb)

Vert: 10=-3183(B) 20=-876(B) 21=-876(B) 22=-876(B) 24=-876(B) 25=-876(B) 26=-876(B) 27=-876(B) 28=-876(B) 29=-876(B)



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Job 24-1180-E	Truss C403	Truss Type JACK-CLOSED	Qty 20	Ply 1	4-Plex-A - Farmhouse-Roof	R85443114
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:53 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-ZQ1uqCCCxpZ9T0iHCDqtUosNdGjdJz4YaE1JlyHHWY
-1-0-0 7-8-0 7-8-0

Scale = 1:34.6

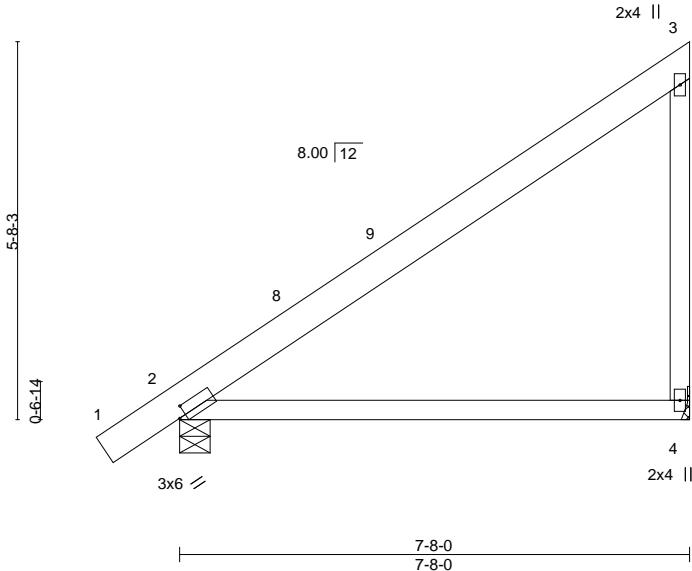


Plate Offsets (X,Y)-- [2:0-1-4,0-1-14]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.09	4-7	>964	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.20	4-7	>463	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-MP	Wind(LL)	0.07	4-7	>999	240	Weight: 34 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

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) 4=Mechanical, 2=0-5-8
Max Horz 2=211(LC 11)
Max Uplift 4=-76(LC 9), 2=-77(LC 12)
Max Grav 4=301(LC 17), 2=351(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-4=-285/256

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-8 to 1-10-8, Interior(1) 1-10-8 to 7-6-4 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
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 2.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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Roseville, CA 95661
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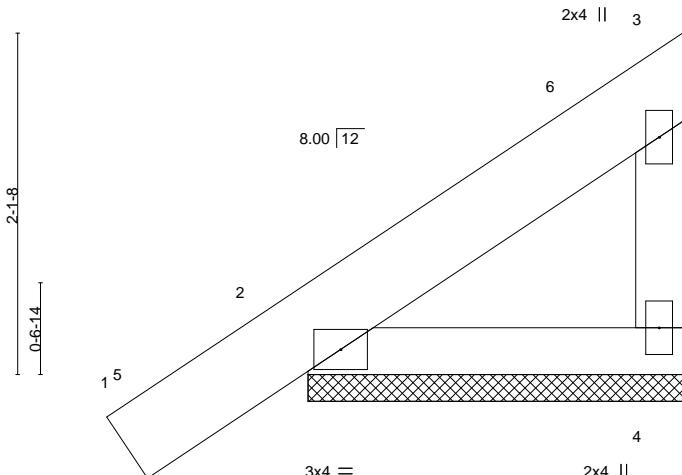
Job 24-1180-E	Truss C404	Truss Type MONOPITCH SUPPORTED	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443115
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Madera Comp Az, PHOENIX, AZ - 85043,

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ID:3mCmX7wpmmbw7h639aarmzZihj-ZQ1uqCCCxpZ9T0iHCDqtUosVBGondJz4YaE1JlyHHWY
 -1-0-0 2-4-0
 1-0-0 2-4-0

Scale = 1:14.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.08	Vert(LL)	-0.00	1	n/r	120	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 12 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 HF/SPF Stud/Std

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=2-4-0, 2=2-4-0
 Max Horz 2=72(LC 9)
 Max Uplift 4=23(LC 9), 2=64(LC 12)
 Max Grav 4=74(LC 17), 2=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-1-8 to 1-10-8, Exterior(2N) 1-10-8 to 2-2-4 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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.



EXPIRES: Jun 30, 2026
 November 20,2024

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Job 24-1180-E	Truss C410	Truss Type GABLE	Qty 3	Ply 2	4-Plex-A - Farmhouse-Roof	R85443116
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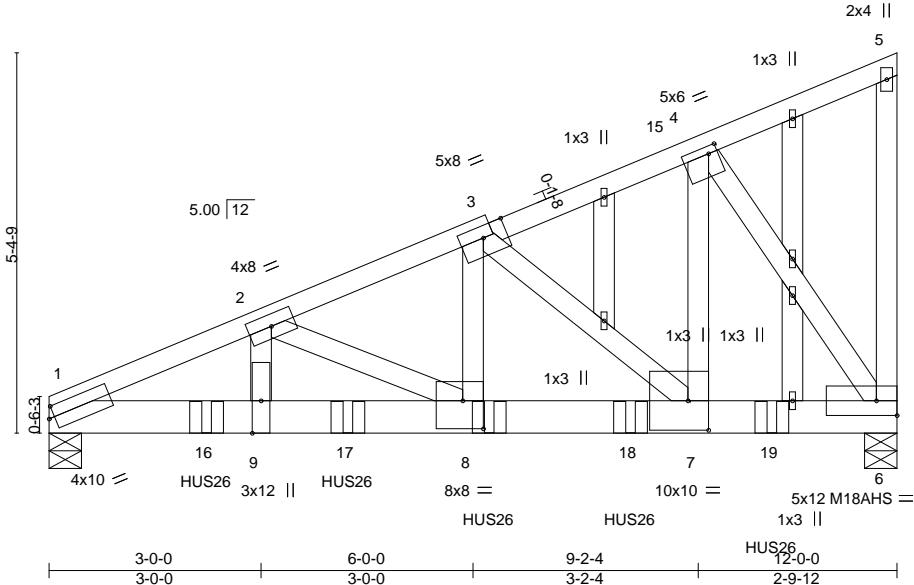
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ID:3mCmX7wpmmbwy7h639aarmzZihj-1cbG1YDqh6h?4AHTmxL61?OXLgxSMY6DmE_arByHHWx

3-0-0 6-0-0 9-2-4 12-0-0
3-0-0 3-0-0 3-2-4 2-9-12

Scale = 1:32.6



3-0-0 6-0-0 9-2-4 12-0-0
3-0-0 3-0-0 3-2-4 2-9-12

Plate Offsets (X,Y)-- [1:0-1-0,0-1-15], [4:0-1-8,0-1-4], [7:0-3-8,0-5-0], [8:0-3-8,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.70	Vert(LL)	-0.08	8-9	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.84	Vert(CT)	-0.17	8-9	>820	240	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.90	Horz(CT)	0.03	6	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.06	8-9	>999	240	Weight: 146 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 DF SS
WEBS 2x4 HF/SPF Stud/Std *Except*
3-8,4-7: 2x4 SPF No.2
OTHERS 2x4 SPF Utility

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 6=0-5-8

Max Horz 1=192(LC 11)
Max Uplift 1=-613(LC 12), 6=-459(LC 12)
Max Grav 1=5682(LC 2), 6=6140(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-11120/1329, 2-3=-8502/943, 3-4=-4056/453
BOT CHORD 1-9=-1366/9920, 8-9=-1366/9920, 7-8=-922/7376, 6-7=-464/3758
WEBS 3-8=-561/4788, 3-7=-4964/656, 4-7=-635/6643, 4-6=-6541/703, 2-8=-2232/423,
2-9=-334/2649

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-0-0, Interior(1) 3-0-0 to 11-10-4 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
- 4) 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.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
1=613, 6=459.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

Continued on page 2

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Job 24-1180-E	Truss C410	Truss Type GABLE	Qty 3	Ply 2	4-Plex-A - Farmhouse-Roof	R85443116
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NOTES-

- 11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent at 2-2-12 from the left end to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie HUS26 (14-16d Girder, 6-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-2-12 from the left end to 10-2-12 to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-60, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Concentrated Loads (lb)

Vert: 8=-1889(B) 16=-1818(B) 17=-1889(B) 18=-1889(B) 19=-1917(B)

- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-52, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Concentrated Loads (lb)

Vert: 8=-2173(B) 16=-2101(B) 17=-2173(B) 18=-2173(B) 19=-2186(B)

- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-28, 1-7=-34, 6-7=-64, 3-7=-40, 4-6=-20

Concentrated Loads (lb)

Vert: 8=-1572(B) 16=-1501(B) 17=-1572(B) 18=-1572(B) 19=-1641(B)

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=42, 2-5=35, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-2=-54, 2-5=-47, 5-6=42

Concentrated Loads (lb)

Vert: 8=226(B) 16=298(B) 17=226(B) 18=226(B) 19=209(B)

- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-15=35, 5-15=42, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-15=-47, 5-15=-54, 5-6=-27

Concentrated Loads (lb)

Vert: 8=226(B) 16=298(B) 17=226(B) 18=226(B) 19=209(B)

- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-48, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=20, 5-6=30

Concentrated Loads (lb)

Vert: 8=232(B) 16=303(B) 17=232(B) 18=232(B) 19=215(B)

- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-48, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=20, 5-6=-38

Concentrated Loads (lb)

Vert: 8=232(B) 16=303(B) 17=232(B) 18=232(B) 19=215(B)

- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=10, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-5=-22, 5-6=20

Concentrated Loads (lb)

Vert: 8=226(B) 16=298(B) 17=226(B) 18=226(B) 19=209(B)

- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=11, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-5=-23, 5-6=-16

Concentrated Loads (lb)

Vert: 8=226(B) 16=298(B) 17=226(B) 18=226(B) 19=209(B)

- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-31, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=3, 5-6=8

Concentrated Loads (lb)

Vert: 8=232(B) 16=303(B) 17=232(B) 18=232(B) 19=215(B)

- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-17, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=-11, 5-6=-28

Concentrated Loads (lb)

Vert: 8=232(B) 16=303(B) 17=232(B) 18=232(B) 19=215(B)

- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=20, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-5=-32, 5-6=25

Concentrated Loads (lb)

Vert: 8=226(B) 16=298(B) 17=226(B) 18=226(B) 19=209(B)

Continued on page 3

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 24-1180-E	Truss C410	Truss Type GABLE	Qty 3	Ply 2	4-Plex-A - Farmhouse-Roof	R85443116
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:54 2024 Page 3
ID:3mCmX7wpmmbwy7h639aarmzZihj-1cbG1YDqh6h?4AHTmxL61?OXLgxSMY6DmE_arByHHWx**LOAD CASE(S)** Standard

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=8, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-5=20, 5-6=25

Concentrated Loads (lb)

Vert: 8=226(B) 16=298(B) 17=226(B) 18=226(B) 19=209(B)

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-29, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=1, 5-6=14

Concentrated Loads (lb)

Vert: 8=232(B) 16=303(B) 17=232(B) 18=232(B) 19=215(B)

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-29, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=1, 5-6=14

Concentrated Loads (lb)

Vert: 8=232(B) 16=303(B) 17=232(B) 18=232(B) 19=215(B)

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-5=-28, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Concentrated Loads (lb)

Vert: 8=1739(B) 16=-1668(B) 17=-1739(B) 18=-1739(B) 19=-1748(B)

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-55, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=3, 5-6=6

Concentrated Loads (lb)

Vert: 8=33(B) 16=105(B) 17=33(B) 18=33(B) 19=16(B)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-44, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=-8, 5-6=21

Concentrated Loads (lb)

Vert: 8=33(B) 16=105(B) 17=33(B) 18=33(B) 19=16(B)

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-53, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=1, 5-6=10

Concentrated Loads (lb)

Vert: 8=33(B) 16=105(B) 17=33(B) 18=33(B) 19=16(B)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-53, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=1, 5-6=10

Concentrated Loads (lb)

Vert: 8=33(B) 16=105(B) 17=33(B) 18=33(B) 19=16(B)

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-28, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-5=16, 5-6=16

Concentrated Loads (lb)

Vert: 8=81(B) 16=152(B) 17=81(B) 18=81(B) 19=64(B)

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=4, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-5=16, 5-6=16

Concentrated Loads (lb)

Vert: 8=81(B) 16=152(B) 17=81(B) 18=81(B) 19=64(B)

23) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=42, 2-5=35, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-2=-54, 2-5=47, 5-6=42

Concentrated Loads (lb)

Vert: 8=1189(B) 16=-1118(B) 17=-1189(B) 18=-1189(B) 19=-1217(B)

24) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-15=35, 5-15=42, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-15=-47, 5-15=-54, 5-6=-27

Concentrated Loads (lb)

Vert: 8=1189(B) 16=-1118(B) 17=-1189(B) 18=-1189(B) 19=-1217(B)

25) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-48, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=20, 5-6=30

Continued on page 4

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

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Job 24-1180-E	Truss C410	Truss Type GABLE	Qty 3	Ply 2	4-Plex-A - Farmhouse-Roof	R85443116
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:54 2024 Page 4
ID:3mCmX7wpmmbwy7h639aarmzZihj-1cbG1YDqh6h?4AHTmxL61?OXLgxSMY6DmE_arByHHWx**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 8=-1183(B) 16=-1112(B) 17=-1183(B) 18=-1183(B) 19=-1212(B)

26) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-48, 1-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=20, 5-6=-38

Concentrated Loads (lb)

Vert: 8=-1183(B) 16=-1112(B) 17=-1183(B) 18=-1183(B) 19=-1212(B)

27) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=10, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-5=-22, 5-6=20

Concentrated Loads (lb)

Vert: 8=-1189(B) 16=-1118(B) 17=-1189(B) 18=-1189(B) 19=-1217(B)

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=11, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-5=-23, 5-6=16

Concentrated Loads (lb)

Vert: 8=-1189(B) 16=-1118(B) 17=-1189(B) 18=-1189(B) 19=-1217(B)

29) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-31, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=3, 5-6=8

Concentrated Loads (lb)

Vert: 8=-1183(B) 16=-1112(B) 17=-1183(B) 18=-1183(B) 19=-1212(B)

30) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-17, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=-11, 5-6=28

Concentrated Loads (lb)

Vert: 8=-1183(B) 16=-1112(B) 17=-1183(B) 18=-1183(B) 19=-1212(B)

31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=20, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-5=-32, 5-6=25

Concentrated Loads (lb)

Vert: 8=-1189(B) 16=-1118(B) 17=-1189(B) 18=-1189(B) 19=-1217(B)

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=8, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-5=-20, 5-6=25

Concentrated Loads (lb)

Vert: 8=-1189(B) 16=-1118(B) 17=-1189(B) 18=-1189(B) 19=-1217(B)

33) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-29, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=1, 5-6=14

Concentrated Loads (lb)

Vert: 8=-1183(B) 16=-1112(B) 17=-1183(B) 18=-1183(B) 19=-1212(B)

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-29, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=1, 5-6=14

Concentrated Loads (lb)

Vert: 8=-1183(B) 16=-1112(B) 17=-1183(B) 18=-1183(B) 19=-1212(B)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-55, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=3, 5-6=6

Concentrated Loads (lb)

Vert: 8=-1969(B) 16=-1897(B) 17=-1969(B) 18=-1969(B) 19=-1986(B)

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-44, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=8, 5-6=21

Concentrated Loads (lb)

Vert: 8=-1969(B) 16=-1897(B) 17=-1969(B) 18=-1969(B) 19=-1986(B)

37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-53, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=1, 5-6=10

Concentrated Loads (lb)

Vert: 8=-1969(B) 16=-1897(B) 17=-1969(B) 18=-1969(B) 19=-1986(B)

Continued on page 5

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Job 24-1180-E	Truss C410	Truss Type GABLE	Qty 3	Ply 2	4-Plex-A - Farmhouse-Roof	R85443116
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:54 2024 Page 5
ID:3mCmX7wpmmbwy7h639aarmzZihj-1cbG1YDqh6h?4AHTmxL61?OXLgxSMY6DmE_arByHHWx**LOAD CASE(S)** Standard

38) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-53, 1-7=-14, 6-7=-44, 3-7=-40, 4-6=-20

Horz: 1-5=1, 5-6=10

Concentrated Loads (lb)

Vert: 8=-1969(B) 16=-1897(B) 17=-1969(B) 18=-1969(B) 19=-1986(B)

39) Reversal: Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=-28, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-5=16, 5-6=16

Concentrated Loads (lb)

Vert: 8=-1043(B) 16=-972(B) 17=-1043(B) 18=-1043(B) 19=-1072(B)

40) Reversal: Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=4, 1-7=-8, 6-7=-38, 3-7=-40, 4-6=-20

Horz: 1-5=16, 5-6=16

Concentrated Loads (lb)

Vert: 8=-1043(B) 16=-972(B) 17=-1043(B) 18=-1043(B) 19=-1072(B)

⚠ 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 24-1180-E	Truss C410A	Truss Type GABLE	Qty 3	Ply 2	4-Plex-A - Farmhouse-Roof	R85443117
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:55 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-Vo9eFuESSQpsiKsfKesLZDxp4OR50tN?uj8NdyHHWw
1-5-12 5-1-9 7-10-4 11-1-0 12-1-0
1-5-12 3-7-13 2-8-11 3-2-12 1-0-0

Scale = 1:32.6

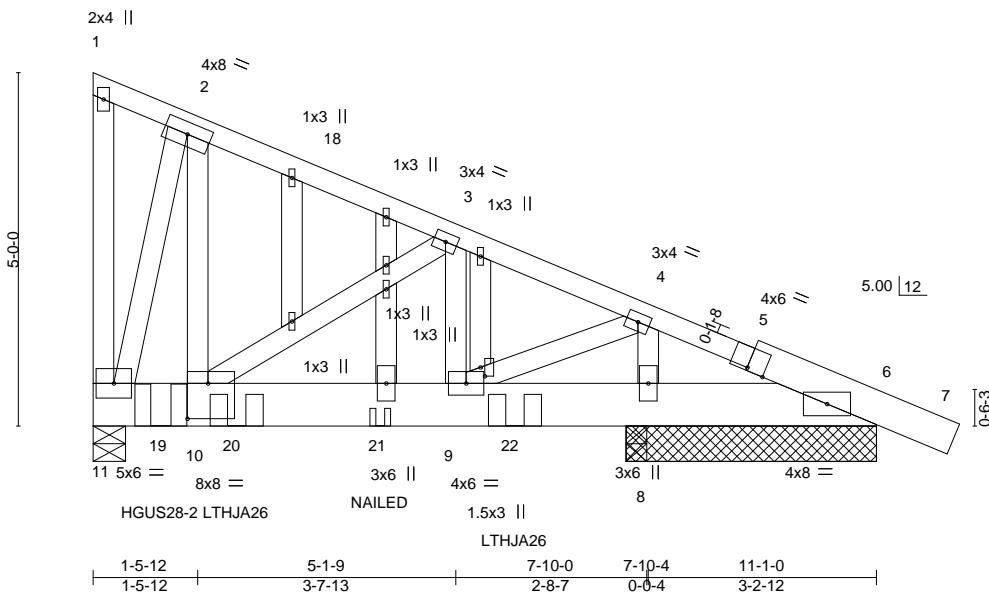


Plate Offsets (X,Y)-- [9:0-1-8,0-0-12], [10:0-3-8,0-6-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.21	Vert(LL)	-0.01	9-10	>999	360	
TCDL 14.0	Lumber DOL 1.25	BC 0.41	Vert(CT)	-0.03	9-10	>999	240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.87	Horz(CT)	0.00	8	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.01	9-10	>999	240	Weight: 159 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E *Except*	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
1-5: 2x4 SPF No.2	
BOT CHORD 2x8 DF SS	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 HF/SPF Stud/Std	
OTHERS 2x4 SPF Utility	

REACTIONS. All bearings 3-6-8 except (jt=length) 11=0-5-8.

- (lb) - Max Horz 11=-182(LC 27)
- Max Uplift All uplift 100 lb or less at joint(s) 8 except 11=-1167(LC 8), 6=-162(LC 31)
- Max Grav All reactions 250 lb or less at joint(s) 6 except 11=6046(LC 1), 8=1854(LC 1), 8=1854(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- TOP CHORD 2-3=-1129/268, 3-4=-1113/212, 4-6=-121/437
- BOT CHORD 10-11=-235/936, 9-10=-66/997, 8-9=-374/160, 6-8=-374/160
- WEBS 2-11=-3014/679, 2-10=-597/3150, 4-9=-224/1512, 4-8=-1377/295

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-2-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-2-1 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
- 4) 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.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 11=1167, 6=162.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Continued on page 2

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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EXPIRES: Jun 30, 2026
November 20,2024

MiTek
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss C410A	Truss Type GABLE	Qty 3	Ply 2	4-Plex-A - Farmhouse-Roof	R85443117
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Madera Comp Az, PHOENIX, AZ - 85043,

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ID:3mCmX7wpmmbw7y7h639aarmzZihj-Vo9eFuESSQpsiKsfKesLZDxdp4OR50tN?uj8NdjHHWw

NOTES-

- 11) Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply, Left Hand Hip) or equivalent at 2-0-6 from the left end to connect truss(es) to front face of bottom chord.
- 12) Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply, Right Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 13) Use Simpson Strong-Tie HGUS28-2 (36-16d Girder, 12-16d Truss) or equivalent at 0-11-8 from the left end to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)	Vert: 1-7=-60, 6-11=-64
Concentrated Loads (lb)	Vert: 19=-6223(B) 20=-98(F) 21=-45(F) 22=-98(F)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)	Vert: 1-7=-52, 6-11=-64
Concentrated Loads (lb)	Vert: 19=-6207(B) 20=-84(F) 21=-39(F) 22=-84(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)	Vert: 1-7=-28, 6-11=-84
Concentrated Loads (lb)	Vert: 19=-5006(B) 20=-40(F) 21=-21(F) 22=-40(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)	Vert: 1-18=44, 6-18=37, 6-7=31, 6-11=-58
Concentrated Loads (lb)	Vert: 19=1355(B) 20=75(F) 21=55(F) 22=75(F)
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)	Vert: 1-5=37, 5-6=44, 6-7=62, 6-11=-58
Concentrated Loads (lb)	Vert: 19=1355(B) 20=75(F) 21=55(F) 22=75(F)
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)	Vert: 1-6=-49, 6-7=-43, 6-11=-64
Concentrated Loads (lb)	Vert: 19=1360(B) 20=88(F) 21=60(F) 22=88(F)
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)	Vert: 1-6=-49, 6-7=-13, 6-11=-64
Concentrated Loads (lb)	Vert: 19=1360(B) 20=88(F) 21=60(F) 22=88(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)	Vert: 1-6=11, 6-7=5, 6-11=-58
Concentrated Loads (lb)	Vert: 19=1355(B) 20=75(F) 21=55(F) 22=75(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)	Vert: 1-6=10, 6-7=27, 6-11=-58
Concentrated Loads (lb)	Vert: 19=1355(B) 20=75(F) 21=55(F) 22=75(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)	Vert: 1-6=17, 6-7=-11, 6-11=-64
Concentrated Loads (lb)	Vert: 19=1360(B) 20=88(F) 21=60(F) 22=88(F)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)	Vert: 1-6=-31, 6-7=-26, 6-11=-64
Concentrated Loads (lb)	Vert: 19=1360(B) 20=88(F) 21=60(F) 22=88(F)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)	Vert: 1-6=20, 6-7=36, 6-11=-58
Concentrated Loads (lb)	Vert: 19=1355(B) 20=75(F) 21=55(F) 22=75(F)

Continued on page 3

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Job 24-1180-E	Truss C410A	Truss Type GABLE	Qty 3	Ply 2	4-Plex-A - Farmhouse-Roof	R85443117
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:55 2024 Page 3
ID:3mCmX7wpmmbwy7h639aarmzZihj-Vo9eFuESSQpsiKsfKesLZDxp4OR50tN?uj8NdyHHWw**LOAD CASE(S)** Standard

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=8, 6-7=25, 6-11=-58
Horz: 1-11=-25, 1-6=20, 6-7=37

Concentrated Loads (lb)

Vert: 19=1355(B) 20=75(F) 21=55(F) 22=75(F)

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-29, 6-7=-23, 6-11=-64
Horz: 1-11=-14, 1-6=1, 6-7=5

Concentrated Loads (lb)

Vert: 19=1360(B) 20=88(F) 21=60(F) 22=88(F)

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-29, 6-7=-23, 6-11=-64
Horz: 1-11=-14, 1-6=1, 6-7=5

Concentrated Loads (lb)

Vert: 19=1360(B) 20=88(F) 21=60(F) 22=88(F)

16) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-7=-28, 6-11=-64

Concentrated Loads (lb)

Vert: 19=-4233(B) 20=-40(F) 21=-21(F) 22=-40(F)

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-44, 6-7=-40, 6-11=-64
Horz: 1-11=21, 1-6=8, 6-7=12

Concentrated Loads (lb)

Vert: 19=632(B) 20=65(F) 21=44(F) 22=65(F)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-55, 6-7=-50, 6-11=-64
Horz: 1-11=-6, 1-6=-3, 6-7=2

Concentrated Loads (lb)

Vert: 19=632(B) 20=65(F) 21=44(F) 22=65(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-53, 6-7=-48, 6-11=-64
Horz: 1-11=-10, 1-6=1, 6-7=4

Concentrated Loads (lb)

Vert: 19=632(B) 20=65(F) 21=44(F) 22=65(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-53, 6-7=-48, 6-11=-64
Horz: 1-11=-10, 1-6=1, 6-7=4

Concentrated Loads (lb)

Vert: 19=632(B) 20=65(F) 21=44(F) 22=65(F)

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=-28, 6-11=-58
Horz: 1-11=16, 1-7=-16

Concentrated Loads (lb)

Vert: 19=873(B) 20=68(F) 21=55(F) 22=68(F)

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=4, 6-11=-58
Horz: 1-11=16, 1-7=16

Concentrated Loads (lb)

Vert: 19=638(B) 20=68(F) 21=55(F) 22=68(F)

23) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-18=44, 6-18=37, 6-7=31, 6-11=-58
Horz: 1-11=27, 1-18=56, 6-18=49, 6-7=43

Concentrated Loads (lb)

Vert: 19=-4289(B) 20=-55(F) 21=-23(F) 22=-55(F)

24) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=37, 5-6=44, 6-7=62, 6-11=-58
Horz: 1-11=-42, 1-5=49, 5-6=56, 6-7=74

Concentrated Loads (lb)

Vert: 19=-4289(B) 20=-55(F) 21=-23(F) 22=-55(F)

25) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-49, 6-7=-43, 6-11=-64
Horz: 1-11=39, 1-6=-21, 6-7=-15

Continued on page 4

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Job 24-1180-E	Truss C410A	Truss Type GABLE	Qty 3	Ply 2	4-Plex-A - Farmhouse-Roof	R85443117
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:55 2024 Page 4
ID:3mCmX7wpmmbwy7h639aarmzZihj-Vo9eFuESSQpsiKsfKesLZDxp4OR50tN?uj8NdyHHWw**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 19=-4284(B) 20=-42(F) 21=-17(F) 22=-42(F)

26) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-49, 6-7=-13, 6-11=-64

Horz: 1-11=-30, 1-6=21, 6-7=15

Concentrated Loads (lb)

Vert: 19=-4284(B) 20=-42(F) 21=-17(F) 22=-42(F)

27) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=11, 6-7=5, 6-11=-58

Horz: 1-11=16, 1-6=23, 6-7=17

Concentrated Loads (lb)

Vert: 19=-4289(B) 20=-55(F) 21=-23(F) 22=-55(F)

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=10, 6-7=27, 6-11=-58

Horz: 1-11=20, 1-6=22, 6-7=39

Concentrated Loads (lb)

Vert: 19=-4289(B) 20=-55(F) 21=-23(F) 22=-55(F)

29) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-17, 6-7=-11, 6-11=-64

Horz: 1-11=28, 1-6=11, 6-7=17

Concentrated Loads (lb)

Vert: 19=-4284(B) 20=-42(F) 21=-17(F) 22=-42(F)

30) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-31, 6-7=-26, 6-11=-64

Horz: 1-11=-8, 1-6=-3, 6-7=2

Concentrated Loads (lb)

Vert: 19=-4284(B) 20=-42(F) 21=-17(F) 22=-42(F)

31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=20, 6-7=36, 6-11=-58

Horz: 1-11=-25, 1-6=32, 6-7=48

Concentrated Loads (lb)

Vert: 19=-4289(B) 20=-55(F) 21=-23(F) 22=-55(F)

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=8, 6-7=25, 6-11=-58

Horz: 1-11=-25, 1-6=20, 6-7=37

Concentrated Loads (lb)

Vert: 19=-4289(B) 20=-55(F) 21=-23(F) 22=-55(F)

33) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-29, 6-7=-23, 6-11=-64

Horz: 1-11=-14, 1-6=1, 6-7=5

Concentrated Loads (lb)

Vert: 19=-4284(B) 20=-42(F) 21=-17(F) 22=-42(F)

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-29, 6-7=-23, 6-11=-64

Horz: 1-11=-14, 1-6=1, 6-7=5

Concentrated Loads (lb)

Vert: 19=-4284(B) 20=-42(F) 21=-17(F) 22=-42(F)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-44, 6-7=-40, 6-11=-64

Horz: 1-11=21, 1-6=8, 6-7=12

Concentrated Loads (lb)

Vert: 19=-5668(B) 20=-74(F) 21=-32(F) 22=-74(F)

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-55, 6-7=-50, 6-11=-64

Horz: 1-11=-6, 1-6=-3, 6-7=2

Concentrated Loads (lb)

Vert: 19=-5668(B) 20=-74(F) 21=-32(F) 22=-74(F)

37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-53, 6-7=-48, 6-11=-64

Horz: 1-11=-10, 1-6=1, 6-7=4

Concentrated Loads (lb)

Vert: 19=-5668(B) 20=-74(F) 21=-32(F) 22=-74(F)

Continued on page 5

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Job 24-1180-E	Truss C410A	Truss Type GABLE	Qty 3	Ply 2	4-Plex-A - Farmhouse-Roof	R85443117
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Madera Comp Az, PHOENIX, AZ - 85043,

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LOAD CASE(S) Standard

38) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-53, 6-7=-48, 6-11=-64

Horz: 1-11=-10, 1-6=1, 6-7=4

Concentrated Loads (lb)

Vert: 19=-5668(B) 20=-74(F) 21=-32(F) 22=-74(F)

39) Reversal: Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=-28, 6-11=-58

Horz: 1-11=16, 1-7=-16

Concentrated Loads (lb)

Vert: 19=-3808(B) 20=-49(F) 21=-23(F) 22=-49(F)

40) Reversal: Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=4, 6-11=-58

Horz: 1-11=16, 1-7=16

Concentrated Loads (lb)

Vert: 19=-3572(B) 20=-49(F) 21=-23(F) 22=-49(F)

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

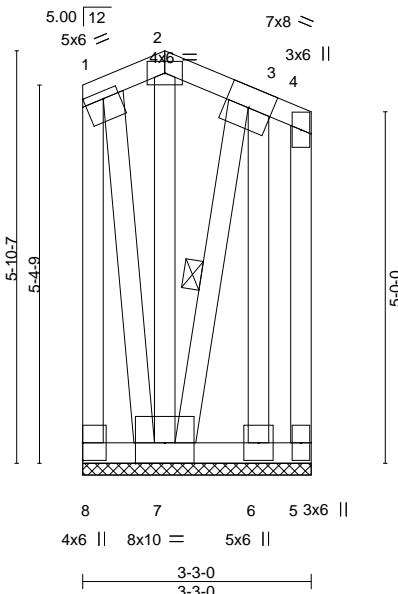
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Job 24-1180-E	Truss C410B	Truss Type GABLE	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof	R85443118
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:56 2024 Page 1

ID:3mCmX7wppmmbwy7h639aarmzZihj-z?j0SEE4DkxjKUQsuLNa6QUUpyUoFqT_WEXThw3yHHWv
1-2-0 3-3-0
1-2-0 2-1-0



Scale = 1:32.8

Plate Offsets (X,Y)-- [1:Edge,0-1-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.94	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 42 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF 1650F 1.5E *Except* 4-5: 2x4 HF/SPF Stud/Std, 3-7: 2x4 SPF No.2
OTHERS	2x4 SPF 1650F 1.5E *Except* 2-7: 2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 3-7

REACTIONS.

- All bearings 3-3-0.
- (lb) - Max Horz 8=-192(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 8=-2528(LC 27), 5=-561(LC 38), 7=-800(LC 27), 6=-2894(LC 30)
- Max Grav All reactions 250 lb or less at joint(s) except 8=2531(LC 34), 5=577(LC 31), 7=850(LC 34), 6=2961(LC 31)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-8=2677/2531, 1-2=-464/495, 2-3=616/644, 3-4=-251/246, 4-5=-575/585

BOT CHORD 7-8=-711/584, 6-7=-953/925, 5-6=-352/320

WEBS 2-7=-268/255, 3-6=-2946/3096, 3-7=-3713/3495, 1-7=-2421/2537

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2528 lb uplift at joint 8, 561 lb uplift at joint 5, 800 lb uplift at joint 7 and 2894 lb uplift at joint 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss has been designed for a total drag load of 1400 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 3-3-0 for 430.8 plf.



EXPIRES: Jun 30, 2026
November 20,2024

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Roseville, CA 95661
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Job 24-1180-E	Truss C411	Truss Type JACK-CLOSED	Qty 12	Ply 1	4-Plex-A - Farmhouse-Roof	R85443119
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:56 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZlhj-z?j0SEE4DkjKUQsuLNa6QUzpUnzqcZWEXThw3yHHWv

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1-0-0 5-1-0 4-11-0

2x4 ||

Scale = 1:28.2

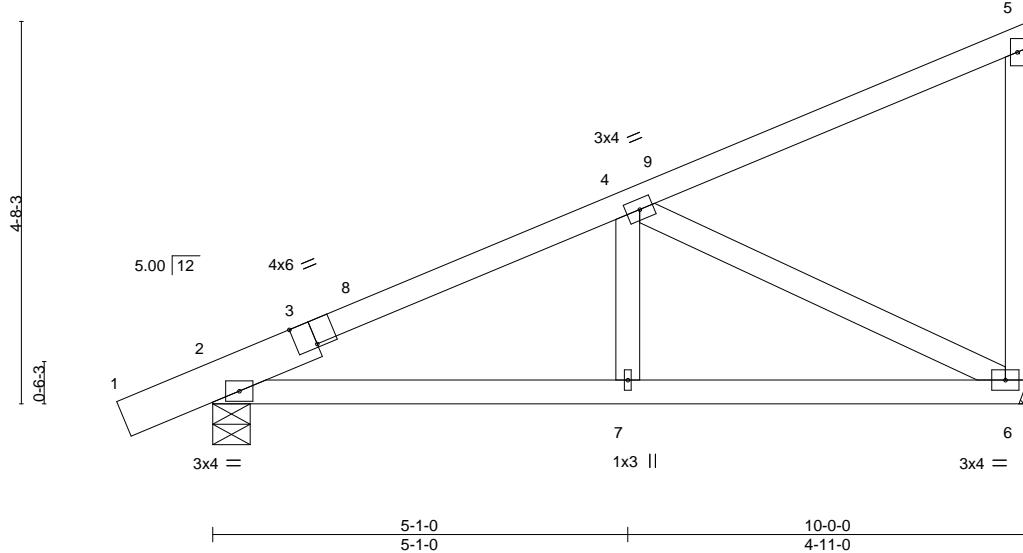


Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.31	Vert(LL)	-0.02	6-7	>999	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.20	Vert(CT)	-0.03	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.01	6	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.01	2-7	>999	240	Weight: 40 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E *Except*
3-5: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-

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

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

REACTIONS. (size) 6=Mechanical, 2=0-5-8

Max Horz 2=173(LC 9)

Max Uplift 6=-59(LC 12), 2=-101(LC 12)

Max Grav 6=351(LC 1), 2=441(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-531/154

BOT CHORD 2-7=-287/474, 6-7=-287/474

WEBS 4-6=-452/247

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 9-10-4 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 6 and 101 lb uplift at joint 2.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024



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

Job 24-1180-E	Truss C412	Truss Type JACK-CLOSED	Qty 7	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443120
Madera Comp Az, PHOENIX, AZ - 85043,						8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:56 2024 Page 1 ID:3mCmX7wpmmbwy7h639aarmzZihj-z?j0SEE4DkjKUQsuLnA6QUzsUnVqc4WEXThw3yHHWv
			5-1-0 5-1-0		10-0-0 4-11-0	
						2x4
						Scale = 1:28.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.31	Vert(LL) -0.02 1-5 >999 360	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.23	Vert(CT) -0.04 1-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.01 4 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.01 1-5 >999 240	Weight: 37 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 1=Mechanical, 4=Mechanical
Max Horz 1=168(LC 11)
Max Uplift 1=51(LC 12), 4=64(LC 12)
Max Grav 1=362(LC 1), 4=362(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-550/186
BOT CHORD 1-5=-296/497, 4-5=-296/497
WEBS 2-4=-505/257

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior(1) 3-0-12 to 9-10-4 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 1 and 64 lb uplift at joint 4.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss C413	Truss Type JACK-CLOSED STRUCTUR	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443121
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Madera Comp Az, PHOENIX, AZ - 85043,

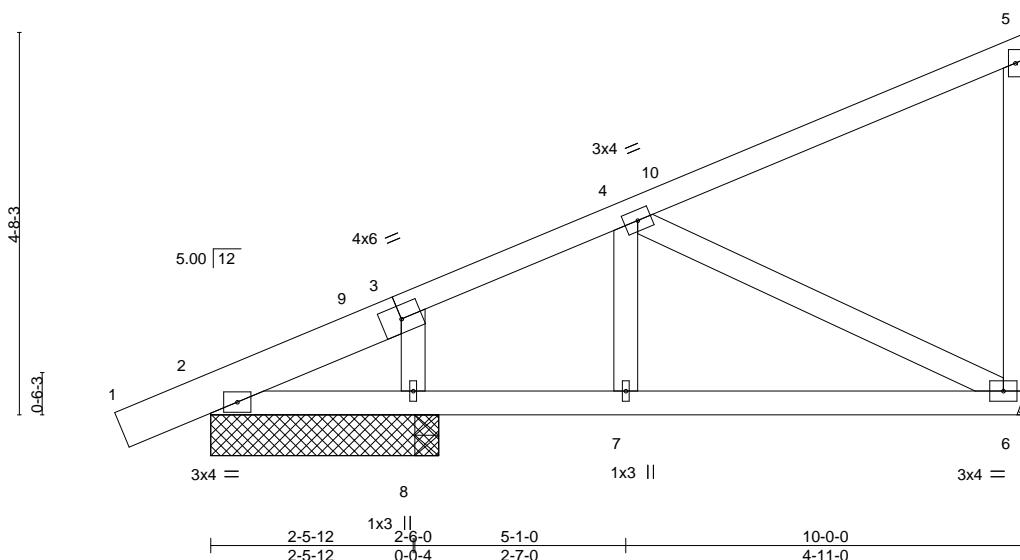
8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:57 2024 Page 1

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-1-0-0 2-5-12 5-1-0 10-0-0
1-0-0 2-5-12 2-7-4 4-11-0

2x4 II

Scale = 1:28.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.32	Vert(LL) -0.02 in (loc) l/defl L/d	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.19	Vert(CT) -0.04 6-7 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.01 6 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.01 6-7 >999 240	Weight: 42 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E *Except*
3-5: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

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. All bearings 2-9-8 except (jt=length) 6=Mechanical.

- (lb) - Max Horz 2=173(LC 9)
- Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 8
- Max Grav All reactions 250 lb or less at joint(s) 8, 8 except 6=324(LC 1), 2=324(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-436/101, 3-4=-401/134
BOT CHORD 2-8=-264/400, 7-8=-256/384, 6-7=-256/384
WEBS 4-6=-373/211

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 9-10-4 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 8.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss C414	Truss Type JACK-CLOSED	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443122
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:57 2024 Page 1

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1-0-0 3-6-12 4-1-4

2x4 ||

Scale = 1:28.1

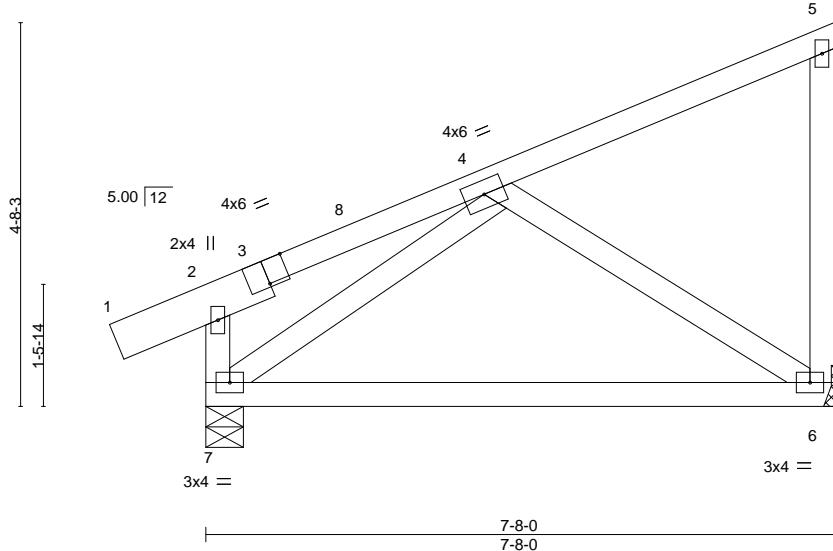


Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	-0.18	6-7	>499	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.30	6-7	>293	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	7	****	240	Weight: 37 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF 1650F 1.5E *Except* 3-5: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 HF/SPF Stud/Std		

REACTIONS. (size) 7=0-5-8, 6=Mechanical
Max Horz 7=173(LC 9)
Max Uplift 7=-81(LC 12), 6=-57(LC 9)
Max Grav 7=353(LC 1), 6=267(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

BOT CHORD 6-7=-297/289
WEBS 4-6=-266/284

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 7-6-4 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
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 7, 6.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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Roseville, CA 95661
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Job 24-1180-E	Truss CC1	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443123
Madera Comp Az,	PHOENIX, AZ - 85043,				8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:58 2024 Page 1 ID:3mCmX7wpmbwy7h639aarmzZlhj-vNrntvGKILBRZoaE?mP2BrZMwHWIICphyo_yyHHwt	

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Scale = 1:11.5

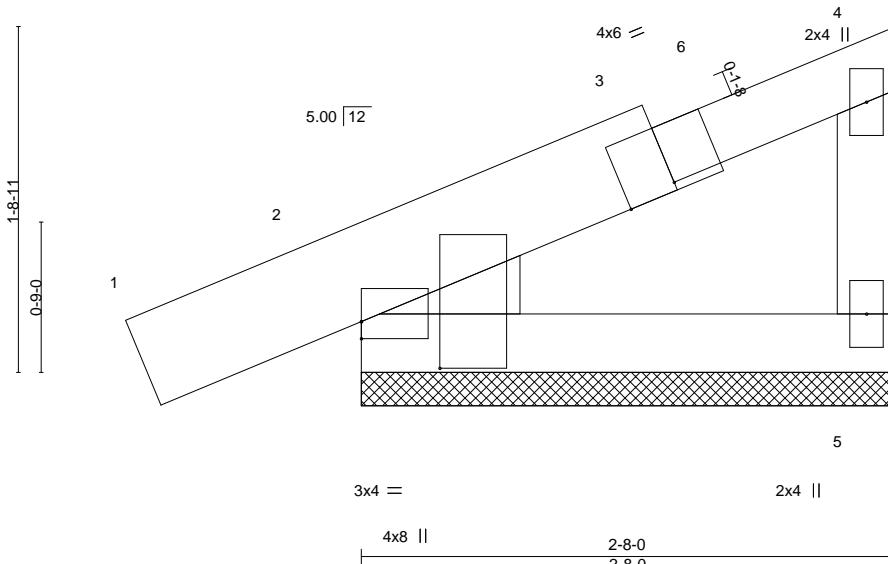


Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [2:0-2-13,0-4-11]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.08	Vert(LL)	0.00	1	n/r	120	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E *Except*
3-4: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
WEDGE Left: 2x4 HFSPF Stud/Std

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins,
except end verticals.

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

REACTIONS.

(size) 5=2-8-0, 2=2-8-0
Max Horz 2=54(LC 11)
Max Uplift 5=16(LC 9), 2=-60(LC 12)
Max Grav 5=79(LC 1), 2=173(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 2-6-4 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss CC2	Truss Type Jack-Closed	Qty 24	Ply 1	4-Plex-A - Farmhouse-Roof	R85443124
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:58 2024 Page 1

ID:3mCmX7wpmbwy7h639aarmzZihj-vNrvGKILBRZoaE?mP2BrZFIHOKIUpphyro_yyHHwt

-1-0-0 7-9-14 10-4-0
1-0-0 7-9-14 2-6-2

Scale = 1:33.3

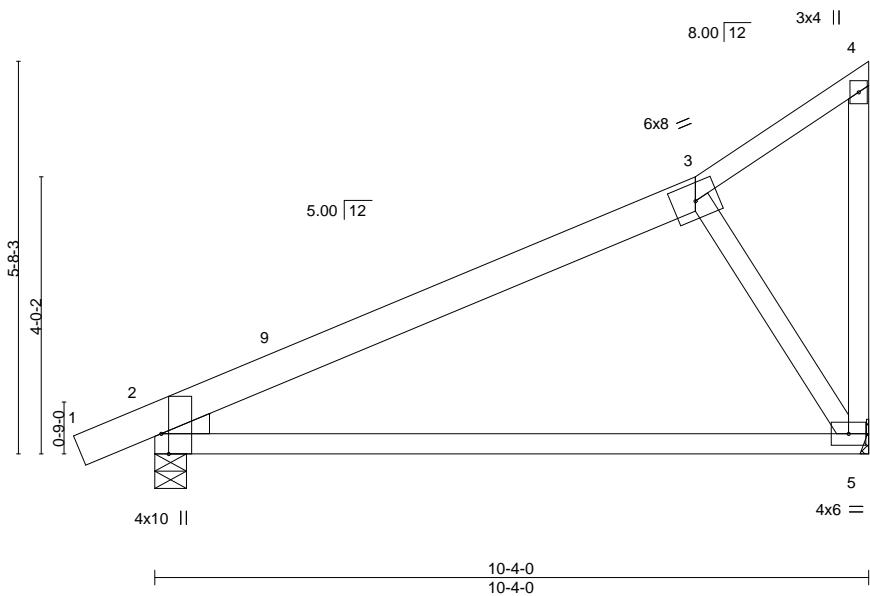


Plate Offsets (X,Y)-- [2:0-3-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.54	Vert(LL)	-0.22	5-8	>559	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.41	5-8	>299	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.02	2	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-MS	Wind(LL)	0.07	5-8	>999	240	Weight: 44 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E *Except*
3-4: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

WEDGE

Left: 2x4 HFSPF Stud/Std

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) 5=Mechanical, 2=0-5-8

Max Horz 2=208(LC 11)

Max Uplift 5=-67(LC 12), 2=-92(LC 12)

Max Grav 5=375(LC 17), 2=446(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-294/109

BOT CHORD 2-5=-180/262

WEBS 3-5=-350/212

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 10-2-4 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

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

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Refer to girder(s) for truss to truss connections.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.

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.



EXPIRES: Jun 30, 2026
November 20, 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/TPI1 Quality Criteria](#) and [DSB-22](#) available from the Truss Plate Institute (www.tpiinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss CC3	Truss Type Jack-Closed Structural Gable	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443125
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:53:59 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZlhj-NaP95FHyWfJIBx9RZUwHk35SGhox1zLywVhLWOyHHWs

-1-0-0 1-0-0 4-1-0 4-1-0 7-9-14 3-8-14 10-4-0 2-6-2

8.00 [12]

3x4 ||

Scale = 1:34.5

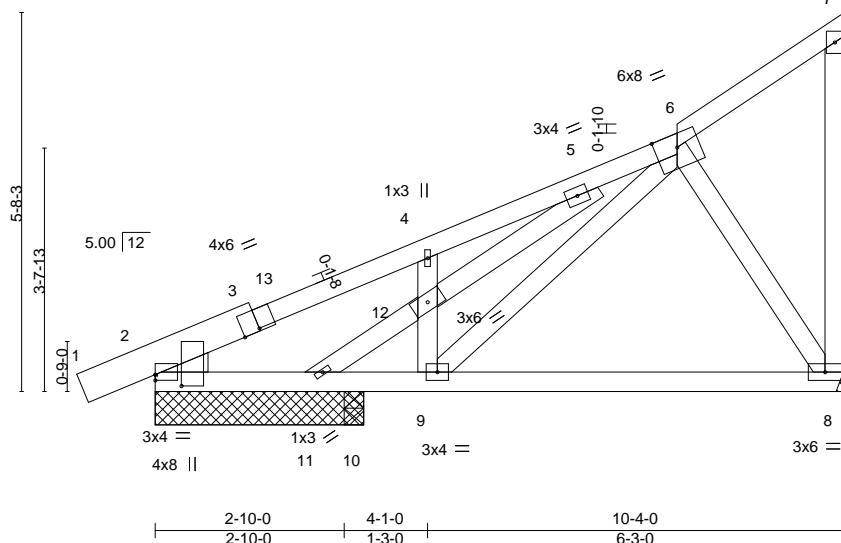


Plate Offsets (X,Y)-- [2:0-0,0,0-1-0], [2:0-2-1,0-4-11]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL)	-0.04	8-9	>999	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.25	Vert(CT)	-0.08	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.00	8	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.02	8-9	>999	240	Weight: 53 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
1-3: 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
WEDGE Left: 2x4 HFSPF Stud/Std

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. All bearings 3-1-8 except (jt=length) 8=Mechanical, 10=0-3-8.

(lb) - Max Horz 2=206(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 10

Max Grav All reactions 250 lb or less at joint(s) 11, 10 except 8=320(LC 17),

2=267(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-251/58, 4-5=-269/140, 5-6=-486/258

BOT CHORD 2-11=-288/316, 10-11=-277/460, 9-10=-277/460

WEBS 6-8=-252/193, 6-9=-181/362, 5-12=-252/114, 11-12=-294/103

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 10-2-4 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2, 10.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss D400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443126
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:00 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-rmyXlbhbHyR9o5kd7BSWGGeXM57imIP699Rv3ryHHWr

1-0-0 6-1-12 11-5-4 12-6-12 17-10-4 21-0-0 24-0-0 25-0-0
1-0-0 6-1-12 5-3-8 0-6-12 5-3-8 3-1-12 3-0-0 1-0-0
4x6 =

Scale = 1:66.3

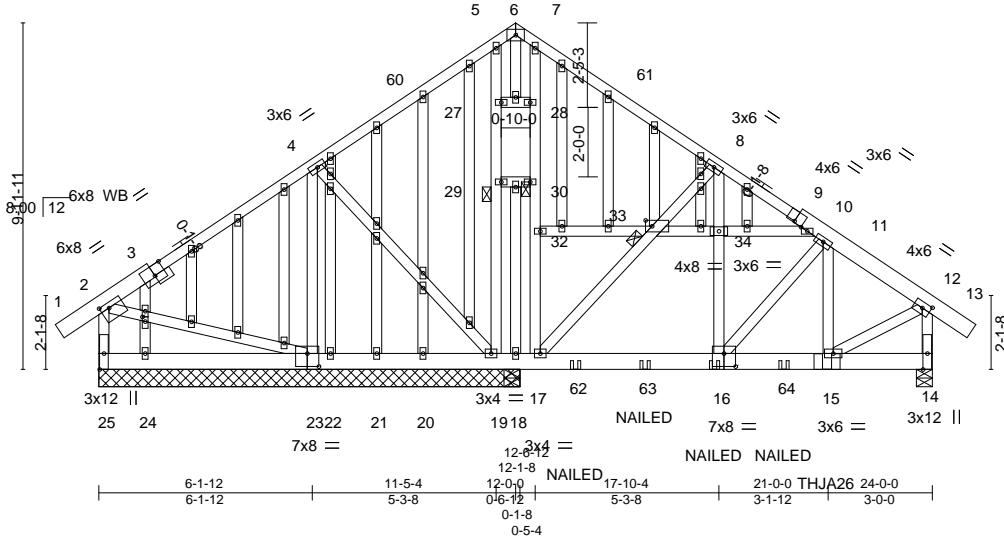


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [3:0-3-12,Edge], [12:0-2-14,0-2-0], [16:0-4-0,0-4-8], [23:0-4-0,0-4-8], [33:0-2-4,0-2-0], [48:0-1-10,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.79	Vert(LL)	0.03 16-17	>999	240	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.28	Vert(CT)	-0.03 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.72	Horz(CT)	-0.02 14	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S					Weight: 240 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E *Except*
3-6,6-9: 2x4 SPF No.2

BOT CHORD 2x6 SPF 1650F 1.5E *Except*
16-23: 2x6 DF SS

WEBS 2x4 HF/SPF Stud/Std *Except*
4-19,8-17,5-19,7-17: 2x4 SPF No.2

OTHERS 2x4 SPF Utility *Except*
3-3: 2x4 HF/SPF Stud/Std

REACTIONS.

All bearings 12-1-8 except (jt=length) 14=0-5-8.

(lb) - Max Horz 25=297(LC 34)

Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 24 except 25=-819(LC 35),
23=-281(LC 35), 19=-1157(LC 58), 14=-1218(LC 36), 18=-1396(LC 35), 22=-110(LC
3)

Max Grav All reactions 250 lb or less at joint(s) 20, 21, 24 except 25=886(LC 34),
23=533(LC 32), 19=1092(LC 31), 14=1153(LC 43), 18=2459(LC 64), 18=2024(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-4=-1049/936, 4-5=-711/681, 7-8=-615/590, 8-10=-846/911, 10-11=-914/966,
11-12=-1021/1125, 2-25=-899/777, 12-14=-1122/1217

BOT CHORD 24-25=-418/499, 23-24=-1305/1365, 22-23=-584/596, 21-22=-824/836, 20-21=-1064/1076,
19-20=-1443/1455, 18-19=-1229/1284, 17-18=-1229/1284, 16-17=-1061/1003,
15-16=-884/826

WEBS 4-23=-641/499, 4-19=-580/572, 17-33=-811/692, 8-33=-699/708, 16-34=-660/469,
8-34=-660/515, 2-23=-915/994, 19-29=-290/116, 27-29=-290/116, 5-27=-290/116,
17-32=-381/104, 30-32=-297/104, 28-30=-297/104, 7-28=-297/104, 11-16=-395/539,
11-15=-587/396, 12-15=-990/938

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 1-1-8 to 1-10-8, Interior(1) 1-10-8 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable studs spaced at 1-4-0 oc.

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

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide Corners between the bottom chord and any other members.



EXPIRES: Jun 30, 2026

November 20, 2024

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

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400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss D400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443126
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:00 2024 Page 2

ID:3mCmX7wpmmbw7h639aarmzZihj-rmyXlbhbHyR905kd7BSWGGeXM57imlP699Rv3ryHHWr

NOTES-

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 24 except ($j=lb$) 25=819, 23=281, 19=1157, 14=1218, 18=1396, 22=110.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss has been designed for a total drag load of 2100 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 11-8-0 for 180.0 plf.
- 12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 13) Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Left Hand Hip) or equivalent at 20-11-10 from the left end to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-6=-60, 6-12=-60, 12-13=-60, 14-25=-14, 33-34=-25, 10-34=-15
 Concentrated Loads (lb)
 Vert: 16=-68(B) 15=-166(B) 62=-68(B) 63=-68(B) 64=-68(B)
 Trapezoidal Loads (plf)
 Vert: 32=-56-to-33=-35
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-52, 2-6=-52, 6-12=-52, 12-13=-52, 14-25=-14, 33-34=-25, 10-34=-15
 Concentrated Loads (lb)
 Vert: 16=-60(B) 15=-146(B) 62=-60(B) 63=-60(B) 64=-60(B)
 Trapezoidal Loads (plf)
 Vert: 32=-56-to-33=-35
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-28, 2-6=-28, 6-12=-28, 12-13=-28, 14-25=-34, 33-34=-25, 10-34=-15
 Concentrated Loads (lb)
 Vert: 16=-42(B) 15=-103(B) 62=-42(B) 63=-42(B) 64=-42(B)
 Trapezoidal Loads (plf)
 Vert: 32=-56-to-33=-35
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=40, 2-6=20, 6-61=27, 12-61=20, 12-13=14, 14-25=-8, 33-34=-25, 10-34=-15
 Horz: 1-2=-52, 2-6=-32, 6-61=39, 12-61=32, 12-13=26, 2-25=27, 12-14=42
 Concentrated Loads (lb)
 Vert: 16=109(B) 15=308(B) 62=109(B) 63=109(B) 64=109(B)
 Trapezoidal Loads (plf)
 Vert: 32=-56-to-33=-35
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=14, 2-6=20, 6-60=27, 6-12=20, 12-13=40, 14-25=-8, 33-34=-25, 10-34=-15
 Horz: 1-2=-26, 2-6=-32, 6-60=39, 6-12=32, 12-13=52, 2-25=-42, 12-14=-27
 Concentrated Loads (lb)
 Vert: 16=109(B) 15=308(B) 62=109(B) 63=109(B) 64=109(B)
 Trapezoidal Loads (plf)
 Vert: 32=-56-to-33=-35
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-12, 2-6=-50, 6-12=-50, 12-13=-44, 14-25=-14, 33-34=-25, 10-34=-15
 Horz: 1-2=-16, 2-6=22, 6-12=-22, 12-13=-16, 2-25=39, 12-14=30
 Concentrated Loads (lb)
 Vert: 16=114(B) 15=322(B) 62=114(B) 63=114(B) 64=114(B)
 Trapezoidal Loads (plf)
 Vert: 32=-56-to-33=-35
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-44, 2-6=-50, 6-12=-50, 12-13=-12, 14-25=-14, 33-34=-25, 10-34=-15
 Horz: 1-2=-16, 2-6=22, 6-12=-22, 12-13=-16, 2-25=-30, 12-14=-39
 Concentrated Loads (lb)
 Vert: 16=114(B) 15=322(B) 62=114(B) 63=114(B) 64=114(B)
 Trapezoidal Loads (plf)
 Vert: 32=-56-to-33=-35
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=16, 2-6=0, 6-12=11, 12-13=5, 14-25=-8, 33-34=-25, 10-34=-15
 Horz: 1-2=-28, 2-6=-12, 6-12=23, 12-13=17, 2-25=16, 12-14=20
 Concentrated Loads (lb)
 Vert: 16=109(B) 15=308(B) 62=109(B) 63=109(B) 64=109(B)
 Trapezoidal Loads (plf)
 Vert: 32=-56-to-33=-35

Continued on page 3

⚠ 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 24-1180-E	Truss D400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443126
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:00 2024 Page 3
ID:3mCmX7wpmmbwy7h639aarmzZihj-rmyXlblbHyR9o5kd7BSWGGeXM57imIP699Rv3ryHHWr**LOAD CASE(S) Standard**

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=5, 2-6=11, 6-12=0, 12-13=16, 14-25=-8, 33-34=-25, 10-34=-15

Horz: 1-2=-17, 2-6=-23, 6-12=12, 12-13=28, 2-25=-20, 12-14=-16

Concentrated Loads (lb)

Vert: 16=109(B) 15=308(B) 62=109(B) 63=109(B) 64=109(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34, 2-6=-39, 6-12=-17, 12-13=-11, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=6, 2-6=11, 6-12=11, 12-13=17, 2-25=28, 12-14=8

Concentrated Loads (lb)

Vert: 16=114(B) 15=322(B) 62=114(B) 63=114(B) 64=114(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-11, 2-6=-17, 6-12=-39, 12-13=-34, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=-17, 2-6=-11, 6-12=-11, 12-13=-6, 2-25=-8, 12-14=-28

Concentrated Loads (lb)

Vert: 16=114(B) 15=322(B) 62=114(B) 63=114(B) 64=114(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=36, 2-6=20, 6-12=20, 12-13=36, 14-25=-8, 33-34=-25, 10-34=-15

Horz: 1-2=48, 2-6=32, 6-12=32, 12-13=48, 2-25=-25, 12-14=25

Concentrated Loads (lb)

Vert: 16=109(B) 15=308(B) 62=109(B) 63=109(B) 64=109(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=25, 2-6=8, 6-12=8, 12-13=25, 14-25=-8, 33-34=-25, 10-34=-15

Horz: 1-2=37, 2-6=20, 6-12=20, 12-13=37, 2-25=-25, 12-14=25

Concentrated Loads (lb)

Vert: 16=109(B) 15=308(B) 62=109(B) 63=109(B) 64=109(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-23, 2-6=-29, 6-12=-29, 12-13=-23, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=-5, 2-6=1, 6-12=-1, 12-13=5, 2-25=-14, 12-14=14

Concentrated Loads (lb)

Vert: 16=114(B) 15=322(B) 62=114(B) 63=114(B) 64=114(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-23, 2-6=-29, 6-12=-29, 12-13=-23, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=-5, 2-6=1, 6-12=-1, 12-13=5, 2-25=-14, 12-14=14

Concentrated Loads (lb)

Vert: 16=114(B) 15=322(B) 62=114(B) 63=114(B) 64=114(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-2=-28, 2-6=-28, 6-12=-28, 12-13=-28, 14-25=-14, 33-34=-25, 10-34=-15

Concentrated Loads (lb)

Vert: 16=-34(B) 15=-84(B) 62=-34(B) 63=-34(B) 64=-34(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-56, 2-6=-61, 6-12=-44, 12-13=-40, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=4, 2-6=9, 6-12=8, 12-13=12, 2-25=21, 12-14=6

Concentrated Loads (lb)

Vert: 16=64(B) 15=189(B) 62=64(B) 63=64(B) 64=64(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-40, 2-6=-44, 6-12=-61, 12-13=-56, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=-12, 2-6=-8, 6-12=-9, 12-13=-4, 2-25=-6, 12-14=-21

Continued on page 4

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

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Job 24-1180-E	Truss D400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443126
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:00 2024 Page 4
ID:3mCmX7wpmmbwy7h639aarmzZihj-rmyXlbhbHyR9o5kd7BSWGGeXM57imIP699Rv3ryHHWr**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 16=64(B) 15=189(B) 62=64(B) 63=64(B) 64=64(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-48, 2-6=-53, 6-12=-53, 12-13=-48, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=-4, 2-6=1, 6-12=-1, 12-13=4, 2-25=10, 12-14=10

Concentrated Loads (lb)

Vert: 16=64(B) 15=189(B) 62=64(B) 63=64(B) 64=64(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-48, 2-6=-53, 6-12=-53, 12-13=-48, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=-4, 2-6=1, 6-12=-1, 12-13=4, 2-25=10, 12-14=10

Concentrated Loads (lb)

Vert: 16=64(B) 15=189(B) 62=64(B) 63=64(B) 64=64(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-6=-28, 6-12=-28, 12-13=-28, 14-25=-8, 33-34=-25, 10-34=-15

Horz: 1-2=16, 2-6=16, 6-12=-16, 12-13=16, 2-25=16, 12-14=16

Concentrated Loads (lb)

Vert: 16=101(B) 15=272(B) 62=101(B) 63=101(B) 64=101(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-6=4, 6-12=4, 12-13=4, 14-25=-8, 33-34=-25, 10-34=-15

Horz: 1-2=16, 2-6=16, 6-12=16, 12-13=16, 2-25=16, 12-14=16

Concentrated Loads (lb)

Vert: 16=101(B) 15=272(B) 62=101(B) 63=101(B) 64=101(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

47) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-60, 2-6=-60, 6-12=-28, 12-13=-28, 14-25=-14, 33-34=-25, 10-34=-15

Concentrated Loads (lb)

Vert: 16=-68(B) 15=-166(B) 62=-68(B) 63=-68(B) 64=-68(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

48) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-28, 2-6=-28, 6-12=-60, 12-13=-60, 14-25=-14, 33-34=-25, 10-34=-15

Concentrated Loads (lb)

Vert: 16=-68(B) 15=-166(B) 62=-68(B) 63=-68(B) 64=-68(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

49) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-52, 2-6=-52, 6-12=-28, 12-13=-28, 14-25=-14, 33-34=-25, 10-34=-15

Concentrated Loads (lb)

Vert: 16=-60(B) 15=-146(B) 62=-60(B) 63=-60(B) 64=-60(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

50) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-28, 2-6=-28, 6-12=-52, 12-13=-52, 14-25=-14, 33-34=-25, 10-34=-15

Concentrated Loads (lb)

Vert: 16=-60(B) 15=-146(B) 62=-60(B) 63=-60(B) 64=-60(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

51) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=40, 2-6=20, 6-61=27, 12-61=20, 12-13=14, 14-25=-8, 33-34=-25, 10-34=-15

Horz: 1-2=-52, 2-6=-32, 6-61=39, 12-61=32, 12-13=26, 2-25=27, 12-14=42

Concentrated Loads (lb)

Vert: 16=-113(B) 15=-280(B) 62=-113(B) 63=-113(B) 64=-113(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

52) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 5

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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss D400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443126
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:01 2024 Page 5
ID:3mCmX7wpmmbwy7h639aarmzZihj-KyWvVxID2GZ0QFJpgvzlpUBi6VTxVlfFOpASbHyHHWq**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-2=14, 2-6=20, 6-60=27, 6-12=20, 12-13=40, 14-25=-8, 33-34=-25, 10-34=-15
Horz: 1-2=26, 2-60=32, 6-60=-39, 6-12=32, 12-13=52, 2-25=-42, 12-14=-27

Concentrated Loads (lb)

Vert: 16=-113(B) 15=-280(B) 62=-113(B) 63=-113(B) 64=-113(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

53) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-12, 2-6=-50, 6-12=-50, 12-13=-44, 14-25=-14, 33-34=-25, 10-34=-15
Horz: 1-2=-16, 2-6=22, 6-12=-22, 12-13=-16, 2-25=39, 12-14=30

Concentrated Loads (lb)

Vert: 16=-107(B) 15=-267(B) 62=-107(B) 63=-107(B) 64=-107(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

54) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-44, 2-6=-50, 6-12=-50, 12-13=-12, 14-25=-14, 33-34=-25, 10-34=-15
Horz: 1-2=16, 2-6=22, 6-12=-22, 12-13=16, 2-25=-30, 12-14=-39

Concentrated Loads (lb)

Vert: 16=-107(B) 15=-267(B) 62=-107(B) 63=-107(B) 64=-107(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

55) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=16, 2-6=0, 6-12=11, 12-13=5, 14-25=-8, 33-34=-25, 10-34=-15
Horz: 1-2=28, 2-6=12, 6-12=23, 12-13=17, 2-25=16, 12-14=20

Concentrated Loads (lb)

Vert: 16=-113(B) 15=-280(B) 62=-113(B) 63=-113(B) 64=-113(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

56) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=5, 2-6=11, 6-12=0, 12-13=16, 14-25=-8, 33-34=-25, 10-34=-15
Horz: 1-2=17, 2-6=23, 6-12=12, 12-13=28, 2-25=-20, 12-14=-16

Concentrated Loads (lb)

Vert: 16=-113(B) 15=-280(B) 62=-113(B) 63=-113(B) 64=-113(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

57) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34, 2-6=-39, 6-12=-17, 12-13=-11, 14-25=-14, 33-34=-25, 10-34=-15
Horz: 1-2=6, 2-6=11, 6-12=11, 12-13=17, 2-25=28, 12-14=8

Concentrated Loads (lb)

Vert: 16=-107(B) 15=-267(B) 62=-107(B) 63=-107(B) 64=-107(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

58) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-11, 2-6=-17, 6-12=-39, 12-13=-34, 14-25=-14, 33-34=-25, 10-34=-15
Horz: 1-2=17, 2-6=11, 6-12=-11, 12-13=-6, 2-25=-8, 12-14=-28

Concentrated Loads (lb)

Vert: 16=-107(B) 15=-267(B) 62=-107(B) 63=-107(B) 64=-107(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

59) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=36, 2-6=20, 6-12=20, 12-13=36, 14-25=-8, 33-34=-25, 10-34=-15

Horz: 1-2=48, 2-6=32, 6-12=32, 12-13=48, 2-25=-25, 12-14=25

Concentrated Loads (lb)

Vert: 16=-113(B) 15=-280(B) 62=-113(B) 63=-113(B) 64=-113(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

60) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=25, 2-6=8, 6-12=8, 12-13=25, 14-25=-8, 33-34=-25, 10-34=-15

Horz: 1-2=37, 2-6=20, 6-12=20, 12-13=37, 2-25=-25, 12-14=25

Concentrated Loads (lb)

Vert: 16=-113(B) 15=-280(B) 62=-113(B) 63=-113(B) 64=-113(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

61) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-23, 2-6=-29, 6-12=-29, 12-13=-23, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=5, 2-6=1, 6-12=-1, 12-13=5, 2-25=-14, 12-14=14

Continued on page 6



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Job 24-1180-E	Truss D400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443126
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:01 2024 Page 6
ID:3mCmX7wpmmbw7h639aarmzZihj-KyWvVxID2GZ0QFJpgvzlpUBi6VTxVlfFOpASbHyHHWq**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 16=-107(B) 15=-267(B) 62=-107(B) 63=-107(B) 64=-107(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

62) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-23, 2-6=-29, 6-12=-29, 12-13=-23, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=-5, 2-6=1, 6-12=-1, 12-13=5, 2-25=-14, 12-14=14

Concentrated Loads (lb)

Vert: 16=-107(B) 15=-267(B) 62=-107(B) 63=-107(B) 64=-107(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

63) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-56, 2-6=-61, 6-12=-44, 12-13=-40, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=4, 2-6=9, 6-12=8, 12-13=12, 2-25=21, 12-14=6

Concentrated Loads (lb)

Vert: 16=-108(B) 15=-267(B) 62=-108(B) 63=-108(B) 64=-108(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

64) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-40, 2-6=-44, 6-12=-61, 12-13=-56, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=-12, 2-6=-8, 6-12=-9, 12-13=-4, 2-25=6, 12-14=21

Concentrated Loads (lb)

Vert: 16=-108(B) 15=-267(B) 62=-108(B) 63=-108(B) 64=-108(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

65) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-48, 2-6=-53, 6-12=-53, 12-13=-48, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=4, 2-6=1, 6-12=-1, 12-13=4, 2-25=10, 12-14=10

Concentrated Loads (lb)

Vert: 16=-108(B) 15=-267(B) 62=-108(B) 63=-108(B) 64=-108(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

66) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-48, 2-6=-53, 6-12=-53, 12-13=-48, 14-25=-14, 33-34=-25, 10-34=-15

Horz: 1-2=-4, 2-6=1, 6-12=-1, 12-13=4, 2-25=-10, 12-14=10

Concentrated Loads (lb)

Vert: 16=-108(B) 15=-267(B) 62=-108(B) 63=-108(B) 64=-108(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

67) Reversal: Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-6=-28, 6-12=-28, 12-13=-28, 14-25=-8, 33-34=-25, 10-34=-15

Horz: 1-2=16, 2-6=16, 6-12=-16, 12-13=-16, 2-25=16, 12-14=16

Concentrated Loads (lb)

Vert: 16=-105(B) 15=-244(B) 62=-105(B) 63=-105(B) 64=-105(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

68) Reversal: Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-6=4, 6-12=4, 12-13=4, 14-25=-8, 33-34=-25, 10-34=-15

Horz: 1-2=16, 2-6=16, 6-12=16, 12-13=16, 2-25=16, 12-14=16

Concentrated Loads (lb)

Vert: 16=-105(B) 15=-244(B) 62=-105(B) 63=-105(B) 64=-105(B)

Trapezoidal Loads (plf)

Vert: 32=-56-to-33=-35

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400 Sunrise Ave., Suite 270
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Job 24-1180-E	Truss D401	Truss Type COMMON	Qty 16	Ply 1	4-Plex-A - Farmhouse-Roof	R85443127
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:01 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-KyWvVxD2GZ0QFJpgvzlpUBpoVTWVr?FOpASbHyHHWq

6'-0" 12'-0" 18'-0" 24'-0" 25'-0"
6'-0" 6'-0" 6'-0" 6'-0" 1'-0"

4x6 =

Scale = 1:58.6

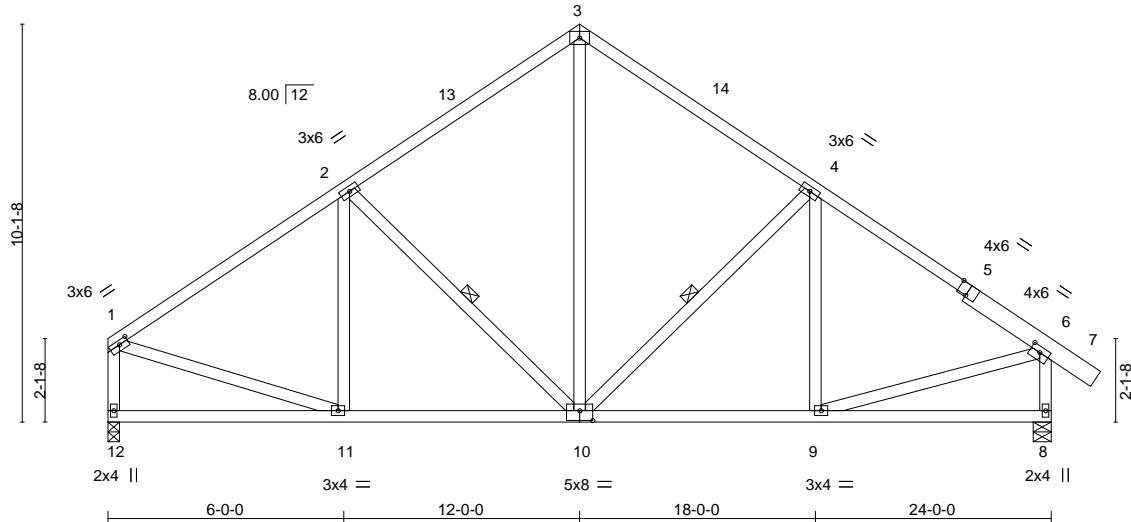


Plate Offsets (X,Y)-- [1:0-2-12,0-1-4], [5:0-3-0,Edge], [6:0-3-0,0-1-12], [10:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.36	Vert(LL)	-0.03 11-12	>999	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.30	Vert(CT)	-0.06 10-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.01 8	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.02 10	>999	240	Weight: 124 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 5-7: 2x6 SPF 1650F 1.5E	TOP CHORD	Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 HF/SPF Stud/Std *Except* 3-10,4-10,2-10: 2x4 SPF No.2	WEBS	1 Row at midpt 4-10, 2-10

REACTIONS. (size) 12-0-3-8, 8=0-5-8
 Max Horz 12=-258(LC 10)
 Max Uplift 12=-140(LC 12), 8=-184(LC 12)
 Max Grav 12=875(LC 1), 8=956(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.TOP CHORD 1-2=-935/201, 2-3=-762/257, 3-4=-760/257, 4-6=-942/204, 1-12=-836/176,
6-8=-917/226BOT CHORD 11-12=-218/268, 10-11=-110/782, 9-10=-93/699
WEBS 3-10=-142/456, 4-10=-278/146, 2-10=-289/145, 1-11=-103/691, 6-9=-60/679**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=140, 8=184.
- 6) 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.

EXPIRES: Jun 30, 2026
November 20,2024

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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MiTek®
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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss D402	Truss Type COMMON GIRDER	Qty 4	Ply 3	4-Plex-A - Farmhouse-Roof	R85443128
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:02 2024 Page 1

ID:3mCmX7wpmmbw7y639aarmzZlhj-o94ijHJrpah2Pu?EcU_Mhr6ulkEF6PcTw?7jyHHWp

5-7-9 12-0-0 18-4-7 24-0-0
5-7-9 6-4-7 6-4-7 5-7-9

Scale = 1:62.7

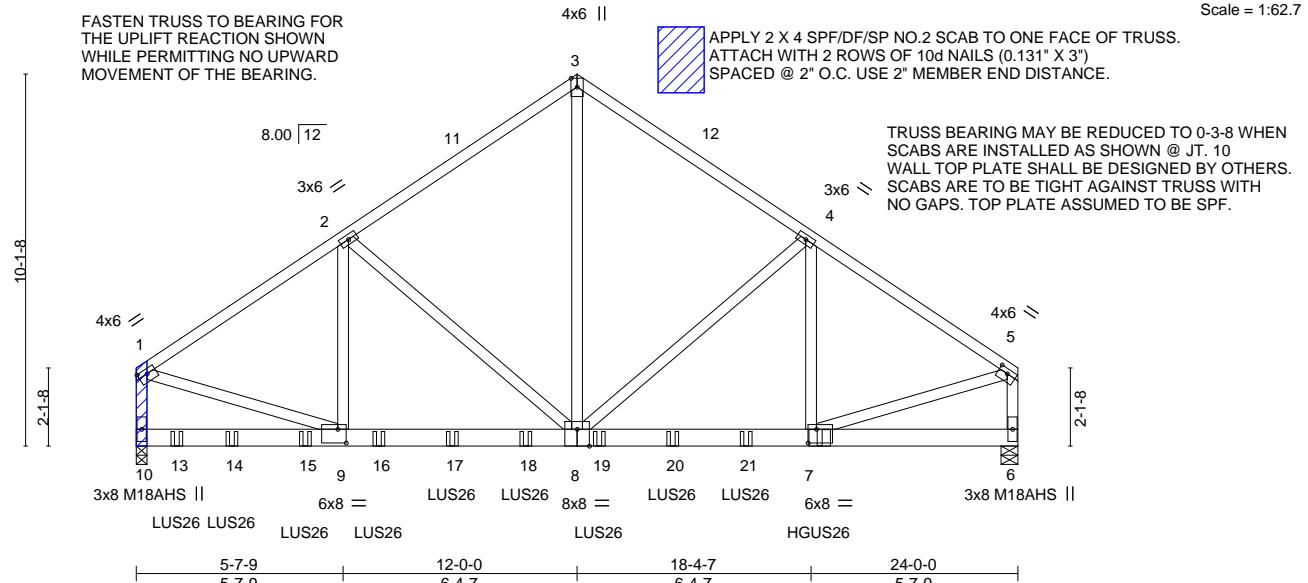


Plate Offsets (X,Y)-- [1:0-3-0,0-1-8], [5:0-3-0,0-1-8], [7:0-2-12,0-4-8], [8:0-4-0,Edge], [9:0-2-12,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.90	Vert(LL)	-0.10	7-8 >999	360	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.56	Vert(CT)	-0.19	7-8 >999	240	M18AHS	145/140
BCLL 0.0 *	Rep Stress Incr NO	WB 0.52	Horz(CT)	0.02	6 n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.08	7-8 >999	240	Weight: 423 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 DF SS
WEBS 2x4 SPF No.2 *Except*
4-7,2-9,1-10,5-6: 2x4 HF/SPF Stud/Stud

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 (req. 0-3-15), 6=0-5-8

Max Horz 10=-241(LC 10)
Max Uplift 10=-1234(LC 12), 6=-1481(LC 12)
Max Grav 10=7535(LC 2), 6=6587(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-7362/1293, 2-3=-5951/1219, 3-4=-5951/1218, 4-5=-7938/1820, 1-10=-6096/1071,

5-6=-6637/1516

BOT CHORD 9-10=-252/417, 8-9=-1071/6061, 7-8=-1491/6543

WEBS 3-8=-1194/6170, 4-8=-2229/861, 4-7=-957/2283, 2-8=-1591/283, 2-9=-292/1552,

1-9=-1024/6092, 5-7=-1508/6805

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-7 2x4 - 1 row at 0-4-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 23-10-4 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

5) All plates are MT20 plates unless otherwise indicated.

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

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) WARNING: Required bearing size at joint(s) 10 greater than input bearing size.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
10=1234, 6=1481.

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

11) Use Simpson Strong-Tie LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-1-4 from the left end to 16-7-4 to connect truss(es) to front face of bottom chord.

Continued on page 2

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

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EXPIRES: Jun 30, 2026

November 20, 2024

MiTek
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-Us.com

Job 24-1180-E	Truss D402	Truss Type COMMON GIRDER	Qty 4	Ply 3	4-Plex-A - Farmhouse-Roof	R85443128
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:02 2024 Page 2
ID:3mCmX7wpmmbw7h639aarmzzlhj-o94ijHJrpah2Pu?EcU_Mhjr6ulkEF6PcTw?7jyHHWp

NOTES-

- 12) Use Simpson Strong-Tie HGUS26 (20-SD10212 Girder, 8-SD10212 Truss) or equivalent at 18-7-4 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg to the left, sloping 0.0 deg. down.
13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 6-10=-14

Concentrated Loads (lb)

Vert: 7=-2807(F) 13=-876(F) 14=-876(F) 15=-876(F) 16=-876(F) 17=-876(F) 18=-876(F) 19=-876(F) 20=-876(F) 21=-876(F)



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 24-1180-E	Truss D411	Truss Type GABLE	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof	R85443129
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:03 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-GLegwdKTatpkfZTCoK?DuvG5UI8jzimYr7fZf9yHHWo

2-2-4 | 6-2-4 | 11-8-0
2-2-4 4-0-0 5-5-12

Scale = 1:37.4

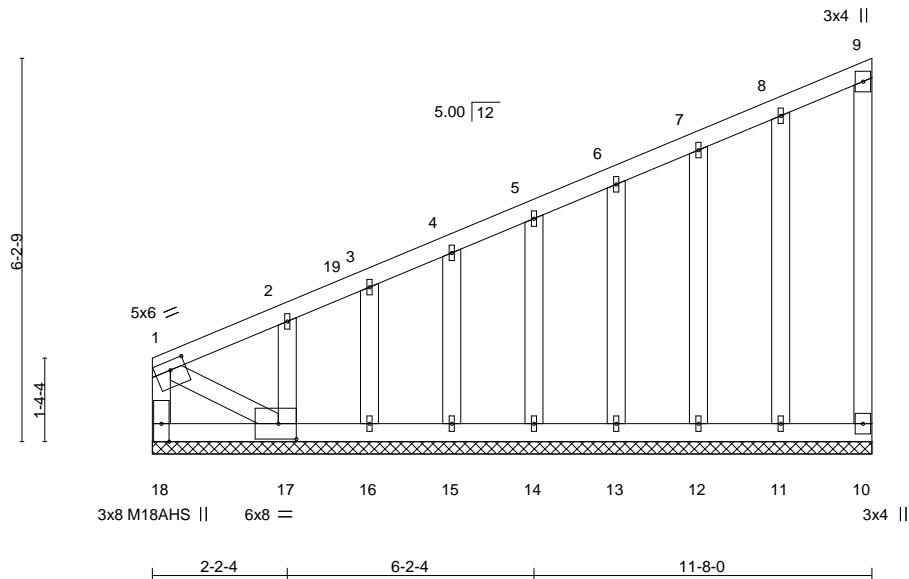


Plate Offsets (X,Y)-- [1:0-3-0,0-1-12], [17:0-3-8,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.54	Vert(LL)	n/a	-	n/a	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.38	Vert(CT)	n/a	-	n/a	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.56	Horz(CT)	-0.01	10	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S				n/a	Weight: 65 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std *Except*
1-18,1-17: 2x4 SPF No.2
OTHERS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-9 oc purlins,
except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-5-3 oc bracing.

REACTIONS. All bearings 11-8-0.
(lb) - Max Horz 18=224(LC 33)
Max Uplift All uplift 100 lb or less at joint(s) 10, 14, 11, 12, 13, 15, 16 except 18=-1975(LC 31), 17=-1229(LC 30)
Max Grav All reactions 250 lb or less at joint(s) 10, 14, 11, 12, 13, 15, 16 except 18=2124(LC 34),
17=1249(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-2204/1968, 1-2=2476/2217, 2-3=-2080/1853, 3-4=-1799/1595, 4-5=-1516/1334,
5-6=-1233/1073, 6-7=-945/823, 7-8=-653/576, 8-9=-362/317
BOT CHORD 17-18=-702/405, 16-17=-1788/1751, 15-16=-1524/1511, 14-15=-1308/1271,
13-14=-1068/1031, 12-13=-828/791, 11-12=-588/551, 10-11=-348/311
WEBS 1-17=-2343/2619

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-6-4 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.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 14, 11, 12, 13, 15, 16 except (jt=lb) 18=-1975, 17=-1229.
- 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.
- This truss has been designed for a total drag load of 2100 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 11-8-0 for 180.0 plf.



EXPIRES: Jun 30, 2026
November 20,2024

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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss D420	Truss Type GABLE	Qty 3	Ply 3	4-Plex-A - Farmhouse-Roof	R85443130
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:07 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-86tBm_N_e6J98Amz19493lRr0vU8vU88mldmoxyHHWk
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04-0 4-2-8 3-7-8 4-2-0 1-0-0

Scale = 1:41.3

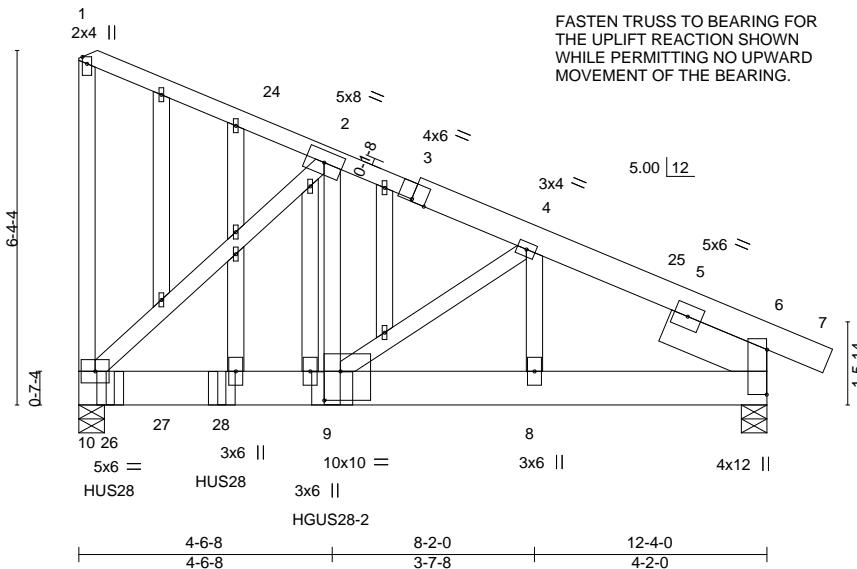


Plate Offsets (X,Y)-- [6:0-9-11,0-0-1], [9:0-3-8,0-6-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.03	9-10	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.07	9-10	>999	240	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66	Horz(CT)	0.02	6	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-MS	Wind(LL)	0.04	8-9	>999	240	Weight: 292 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E *Except* 1-3: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x8 DF SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 HF/SPF Stud/Std *Except* 2-9: 2x4 SPF No.2	
OTHERS 2x4 SPF Utility	
SLIDER Right 2x8 DF SS 2-0-0	

REACTIONS.

(size) 6=0-5-8, 10=0-5-8
Max Horz 10=-409(LC 31)
Max Uplift 6=-1620(LC 36), 10=-1383(LC 35)
Max Grav 6=3152(LC 2), 10=8160(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-928/889, 2-4=-5809/2472, 4-6=-4561/2272
BOT CHORD 9-10=-2889/5417, 8-9=-2148/3988, 6-8=-2148/3988
WEBS 2-9=-1674/6755, 4-9=-1197/1785, 4-8=-1026/559, 2-10=-7455/1805

NOTES-

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 4 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 2 rows staggered at 0-4-0 oc, Except member 9-4 2x4 - 1 row at 0-9-0 oc, member 4-8 2x4 - 1 row at 0-9-0 oc, member 10-2 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-5-1 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
- 4) 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.
- 5) All plates are 1x3 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1620, 10=1383.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss D420	Truss Type GABLE	Qty 3	Ply 3	4-Plex-A - Farmhouse-Roof	R85443130
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:07 2024 Page 2

ID:3mCmX7wpmmbw7h639aarmzZihj-86tBm_N_e6J98Amz19493lRr0vU8vU88mlmoxyHHWk

NOTES-

- 11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) This truss has been designed for a total drag load of 2100 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-6-0 for 1400.0 plf.
- 13) Use MiTek HUS28 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-6-12 from the left end to 2-6-12 to connect truss(es) to front face of bottom chord.
- 14) Use Simpson Strong-Tie HGUS28-2 (36-16d Girder, 12-16d Truss) or equivalent at 4-6-8 from the left end to connect truss(es) to front face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) Studding applied to ply: 1(Front), 3(Back)

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-7=-60, 10-20=-14, 4-9=-10, 2-10=-40

Concentrated Loads (lb)

Vert: 9=-5950(F) 26=-1896(F) 28=-1813(F)

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-7=-52, 10-20=-14, 4-9=-10, 2-10=-40

Concentrated Loads (lb)

Vert: 9=-5962(F) 26=-2180(F) 28=-2097(F)

- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-7=-28, 10-20=-34, 4-9=-10, 2-10=-40

Concentrated Loads (lb)

Vert: 9=-4773(F) 26=-1586(F) 28=-1497(F)

- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-24=41, 6-24=35, 6-7=29, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-24=53, 6-24=47, 6-7=41, 1-10=26

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-25=35, 6-25=41, 6-7=61, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-25=47, 6-25=53, 6-7=73, 1-10=-41

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-48, 6-7=-42, 10-20=-14, 4-9=-10, 2-10=-40

Horz: 1-6=-20, 6-7=-14, 1-10=38

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-48, 6-7=-14, 10-20=-14, 4-9=-10, 2-10=-40

Horz: 1-6=-20, 6-7=14, 1-10=-29

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=11, 6-7=5, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-6=23, 6-7=17, 1-10=16

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=10, 6-7=27, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-6=22, 6-7=39, 1-10=-20

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-17, 6-7=-11, 10-20=-14, 4-9=-10, 2-10=-40

Horz: 1-6=11, 6-7=17, 1-10=28

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-31, 6-7=-26, 10-20=-14, 4-9=-10, 2-10=-40

Horz: 1-6=-3, 6-7=2, 1-10=8

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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

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Job 24-1180-E	Truss D420	Truss Type GABLE	Qty 3	Ply 3	4-Plex-A - Farmhouse-Roof	R85443130
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:07 2024 Page 3
ID:3mCmX7wpmmbwy7h639aarmzZihj-86tBm_N_e6J98Amz19493lRr0vU8vU88mldmoxyHHWk**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-6=20, 6-7=36, 10-20=-8, 4-9=-10, 2-10=-40
Horz: 1-6=32, 6-7=48, 1-10=25

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=8, 6-7=25, 10-20=-8, 4-9=-10, 2-10=-40
Horz: 1-6=20, 6-7=37, 1-10=-25

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-29, 6-7=-23, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-6=1, 6-7=5, 1-10=-14

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-29, 6-7=-23, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-6=1, 6-7=5, 1-10=-14

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

16) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-7=-28, 10-20=-14, 4-9=-10, 2-10=-40

Concentrated Loads (lb)

Vert: 9=4078(F) 26=1748(F) 28=-1665(F)

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-44, 6-7=-40, 10-20=-14, 4-9=-10, 2-10=-40

Horz: 1-6=8, 6-7=12, 1-10=21

Concentrated Loads (lb)

Vert: 9=646(F) 26=21(F) 28=104(F)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-55, 6-7=-50, 10-20=-14, 4-9=-10, 2-10=-40

Horz: 1-6=-3, 6-7=2, 1-10=6

Concentrated Loads (lb)

Vert: 9=646(F) 26=21(F) 28=104(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-53, 6-7=-48, 10-20=-14, 4-9=-10, 2-10=-40

Horz: 1-6=1, 6-7=4, 1-10=10

Concentrated Loads (lb)

Vert: 9=646(F) 26=21(F) 28=104(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-53, 6-7=-48, 10-20=-14, 4-9=-10, 2-10=-40

Horz: 1-6=1, 6-7=4, 1-10=10

Concentrated Loads (lb)

Vert: 9=646(F) 26=21(F) 28=104(F)

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=-28, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-7=16, 1-10=16

Concentrated Loads (lb)

Vert: 9=888(F) 26=70(F) 28=152(F)

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=4, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-7=16, 1-10=16

Concentrated Loads (lb)

Vert: 9=653(F) 26=70(F) 28=152(F)

23) Dead + 0.6 C-C Wind (Pos. Internal) Case 2 + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-36, 3-4=-32, 4-25=-36, 6-25=-29, 6-7=61, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-3=456, 3-4=477, 4-25=456, 6-25=462, 6-7=73, 1-10=-41

Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

24) Dead + 0.6 C-C Wind (Pos. Internal) Case 2 + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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Job 24-1180-E	Truss D420	Truss Type GABLE	Qty 3	Ply 3	4-Plex-A - Farmhouse-Roof	R85443130
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:07 2024 Page 4
ID:3mCmX7wpmmbwy7h639aarmzZihj-86tBm_N_e6J98Amz19493lRr0vU8vU88mldmoxyHHWk**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-3=106, 3-4=102, 4-25=106, 6-25=112, 6-7=61, 10-20=-8, 4-9=-10, 2-10=-40
 Horz: 1-3=362, 3-4=-383, 4-25=-362, 6-25=-355, 6-7=73, 1-10=-41
 Drag: 10-27=1400

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

25) Dead + 0.6 C-C Wind (Neg. Internal) Case 2 + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-118, 3-4=-115, 4-6=-118, 6-7=-14, 10-20=-14, 4-9=-10, 2-10=-40
 Horz: 1-3=389, 3-4=411, 4-6=389, 6-7=14, 1-10=-29
 Drag: 10-27=1400

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

26) Dead + 0.6 C-C Wind (Neg. Internal) Case 2 + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=23, 3-4=20, 4-6=23, 6-7=-14, 10-20=-14, 4-9=-10, 2-10=-40
 Horz: 1-3=-428, 3-4=-450, 4-6=-428, 6-7=14, 1-10=-29
 Drag: 10-27=1400

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

27) Dead + 0.6 MWFRS Wind (Pos. Internal) Left + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-57, 4-6=-60, 6-7=5, 10-20=-8, 4-9=-10, 2-10=-40
 Horz: 1-3=431, 3-4=453, 4-6=431, 6-7=17, 1-10=16
 Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

28) Dead + 0.6 MWFRS Wind (Pos. Internal) Left + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=81, 3-4=78, 4-6=81, 6-7=5, 10-20=-8, 4-9=-10, 2-10=-40
 Horz: 1-3=-386, 3-4=-408, 4-6=-386, 6-7=17, 1-10=16
 Drag: 10-27=1400

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

29) Dead + 0.6 MWFRS Wind (Pos. Internal) Right + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-61, 3-4=-57, 4-6=-61, 6-7=27, 10-20=-8, 4-9=-10, 2-10=-40
 Horz: 1-3=431, 3-4=453, 4-6=431, 6-7=39, 1-10=20
 Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

30) Dead + 0.6 MWFRS Wind (Pos. Internal) Right + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=81, 3-4=78, 4-6=81, 6-7=27, 10-20=-8, 4-9=-10, 2-10=-40
 Horz: 1-3=-386, 3-4=-408, 4-6=-386, 6-7=39, 1-10=20
 Drag: 10-27=1400

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

31) Dead + 0.6 MWFRS Wind (Neg. Internal) Left + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-88, 3-4=-85, 4-6=-88, 6-7=-11, 10-20=-14, 4-9=-10, 2-10=-40
 Horz: 1-3=419, 3-4=441, 4-6=419, 6-7=17, 1-10=28
 Drag: 10-27=1400

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

32) Dead + 0.6 MWFRS Wind (Neg. Internal) Left + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=54, 3-4=50, 4-6=54, 6-7=-11, 10-20=-14, 4-9=-10, 2-10=-40
 Horz: 1-3=-398, 3-4=-420, 4-6=-398, 6-7=17, 1-10=28
 Drag: 10-27=1400

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

33) Dead + 0.6 MWFRS Wind (Neg. Internal) Right + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-102, 3-4=-99, 4-6=-102, 6-7=-26, 10-20=-14, 4-9=-10, 2-10=-40
 Horz: 1-3=405, 3-4=427, 4-6=405, 6-7=2, 1-10=-8
 Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

34) Dead + 0.6 MWFRS Wind (Neg. Internal) Right + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=39, 3-4=36, 4-6=39, 6-7=-26, 10-20=-14, 4-9=-10, 2-10=-40
 Horz: 1-3=-412, 3-4=-434, 4-6=-412, 6-7=2, 1-10=-8
 Drag: 10-27=1400

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

Continued on page 5

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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss D420	Truss Type GABLE	Qty 3	Ply 3	4-Plex-A - Farmhouse-Roof	R85443130
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:07 2024 Page 5
ID:3mCmX7wpmmbw7h639aarmzZihj-86tBm_N_e6J98Amz19493lRrvU8vU88mlmoxyHHWk**LOAD CASE(S)** Standard

35) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-51, 3-4=-47, 4-6=-51, 6-7=36, 10-20=-8, 4-9=-10, 2-10=-40
Horz: 1-3=441, 3-4=462, 4-6=441, 6-7=48, 1-10=-25

Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

36) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=91, 3-4=87, 4-6=91, 6-7=36, 10-20=-8, 4-9=-10, 2-10=-40
Horz: 1-3=-377, 3-4=-398, 4-6=-377, 6-7=48, 1-10=-25

Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

37) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-63, 3-4=-59, 4-6=-63, 6-7=25, 10-20=-8, 4-9=-10, 2-10=-40
Horz: 1-3=429, 3-4=451, 4-6=429, 6-7=37, 1-10=-25

Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

38) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=79, 3-4=76, 4-6=79, 6-7=25, 10-20=-8, 4-9=-10, 2-10=-40
Horz: 1-3=-388, 3-4=-410, 4-6=-388, 6-7=37, 1-10=-25

Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=1347(F) 26=215(F) 28=297(F)

39) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-100, 3-4=-96, 4-6=-100, 6-7=-23, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-3=408, 3-4=429, 4-6=408, 6-7=5, 1-10=-14

Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

40) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=42, 3-4=38, 4-6=42, 6-7=-23, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-3=410, 3-4=431, 4-6=-410, 6-7=5, 1-10=-14

Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

41) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-100, 3-4=-96, 4-6=-100, 6-7=-23, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-3=408, 3-4=429, 4-6=408, 6-7=5, 1-10=-14

Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

42) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=42, 3-4=38, 4-6=42, 6-7=-23, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-3=410, 3-4=431, 4-6=-410, 6-7=5, 1-10=-14

Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=1353(F) 26=219(F) 28=302(F)

43) Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=-99, 3-4=-95, 4-6=-99, 6-7=-28, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-3=409, 3-4=430, 4-6=409

Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=-3703(F) 26=-1106(F) 28=-1023(F)

44) Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=43, 3-4=39, 4-6=43, 6-7=-28, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-3=409, 3-4=430, 4-6=-409

Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=-3703(F) 26=-1106(F) 28=-1023(F)

45) 0.6 Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 6

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 24-1180-E	Truss D420	Truss Type GABLE	Qty 3	Ply 3	4-Plex-A - Farmhouse-Roof	R85443130
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:07 2024 Page 6
ID:3mCmX7wpmmbwy7h639aarmzZihj-86tBm_N_e6J98Amz19493lRr0vU8vU88mldmoxyHHWk**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-3=-88, 3-4=-84, 4-6=-88, 6-7=-17, 10-20=-8, 4-9=-6, 2-10=-24

Horz: 1-3=409, 3-4=430, 4-6=409

Drag: 10-27=-1400

Concentrated Loads (lb)

Vert: 9=-2316(F) 26=-664(F) 28=-614(F)

46) 0.6 Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)

Vert: 1-3=54, 3-4=51, 4-6=54, 6-7=-17, 10-20=-8, 4-9=-6, 2-10=-24

Horz: 1-3=409, 3-4=430, 4-6=409

Drag: 10-27=1400

Concentrated Loads (lb)

Vert: 9=-2316(F) 26=-664(F) 28=-614(F)

47) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-24=41, 6-24=35, 6-7=29, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-24=53, 6-24=47, 6-7=41, 1-10=26

Concentrated Loads (lb)

Vert: 9=-4131(F) 26=-1196(F) 28=-1114(F)

48) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-25=35, 6-25=41, 6-7=61, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-25=47, 6-25=53, 6-7=73, 1-10=-41

Concentrated Loads (lb)

Vert: 9=-4131(F) 26=-1196(F) 28=-1114(F)

49) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-48, 6-7=-42, 10-20=-14, 4-9=-10, 2-10=-40

Horz: 1-6=-20, 6-7=-14, 1-10=38

Concentrated Loads (lb)

Vert: 9=-4125(F) 26=-1192(F) 28=-1108(F)

50) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-48, 6-7=-14, 10-20=-14, 4-9=-10, 2-10=-40

Horz: 1-6=-20, 6-7=14, 1-10=-29

Concentrated Loads (lb)

Vert: 9=-4125(F) 26=-1192(F) 28=-1108(F)

51) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=11, 6-7=5, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-6=23, 6-7=17, 1-10=16

Concentrated Loads (lb)

Vert: 9=-4131(F) 26=-1196(F) 28=-1114(F)

52) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=10, 6-7=27, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-6=22, 6-7=39, 1-10=20

Concentrated Loads (lb)

Vert: 9=-4131(F) 26=-1196(F) 28=-1114(F)

53) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-17, 6-7=-11, 10-20=-14, 4-9=-10, 2-10=-40

Horz: 1-6=11, 6-7=17, 1-10=28

Concentrated Loads (lb)

Vert: 9=-4125(F) 26=-1192(F) 28=-1108(F)

54) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-31, 6-7=-26, 10-20=-14, 4-9=-10, 2-10=-40

Horz: 1-6=-3, 6-7=2, 1-10=8

Concentrated Loads (lb)

Vert: 9=-4125(F) 26=-1192(F) 28=-1108(F)

55) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=20, 6-7=36, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-6=32, 6-7=48, 1-10=25

Concentrated Loads (lb)

Vert: 9=-4131(F) 26=-1196(F) 28=-1114(F)

56) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=8, 6-7=25, 10-20=-8, 4-9=-10, 2-10=-40

Horz: 1-6=20, 6-7=37, 1-10=25

Concentrated Loads (lb)

Vert: 9=-4131(F) 26=-1196(F) 28=-1114(F)

57) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 7

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2023 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/TP1 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.sbcsccomponents.com)

Job 24-1180-E	Truss D420	Truss Type GABLE	Qty 3	Ply 3	4-Plex-A - Farmhouse-Roof	R85443130
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:07 2024 Page 7
ID:3mCmX7wpmmbwy7h639aarmzZihj-86tBm_N_e6J98Amz19493lRr0vU8vU88mldmoxyHHWk**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-6=-29, 6-7=-23, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-6=1, 6-7=5, 1-10=-14

Concentrated Loads (lb)

Vert: 9=-4125(F) 26=-1192(F) 28=-1108(F)

58) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-29, 6-7=-23, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-6=1, 6-7=5, 1-10=-14

Concentrated Loads (lb)

Vert: 9=-4125(F) 26=-1192(F) 28=-1108(F)

59) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-44, 6-7=-40, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-6=8, 6-7=12, 1-10=21

Concentrated Loads (lb)

Vert: 9=-5461(F) 26=-1976(F) 28=-1892(F)

60) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-55, 6-7=-50, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-6=3, 6-7=2, 1-10=6

Concentrated Loads (lb)

Vert: 9=-5461(F) 26=-1976(F) 28=-1892(F)

61) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-53, 6-7=-48, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-6=1, 6-7=4, 1-10=10

Concentrated Loads (lb)

Vert: 9=-5461(F) 26=-1976(F) 28=-1892(F)

62) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-6=-53, 6-7=-48, 10-20=-14, 4-9=-10, 2-10=-40
Horz: 1-6=1, 6-7=4, 1-10=10

Concentrated Loads (lb)

Vert: 9=-5461(F) 26=-1976(F) 28=-1892(F)

63) Reversal: Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=-28, 10-20=-8, 4-9=-10, 2-10=-40
Horz: 1-7=16, 1-10=16

Concentrated Loads (lb)

Vert: 9=-3671(F) 26=-1050(F) 28=-969(F)

64) Reversal: Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-7=4, 10-20=-8, 4-9=-10, 2-10=-40
Horz: 1-7=16, 1-10=16

Concentrated Loads (lb)

Vert: 9=-3436(F) 26=-1050(F) 28=-969(F)



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Job 24-1180-E	Truss E400	Truss Type GABLE	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443131
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Madera Comp Az, PHOENIX, AZ - 85043,

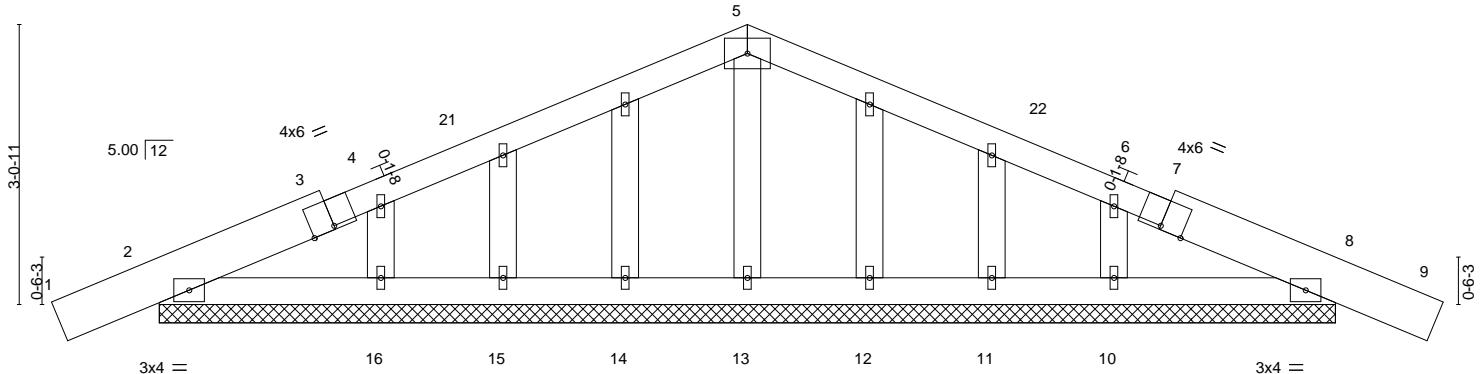
8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:08 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-clRZZKocOQR0mKL9atbObyz2fJwTe4QH?PNKLNyHHWj

-1-0-0 2-5-0 6-5-0 10-5-0 12-10-0 13-10-0
1-0-0 2-5-0 4-0-0 4-0-0 2-5-0 1-0-0

Scale = 1:25.1

4x6 =



2-5-0 6-5-0 10-5-0 12-10-0
2-5-0 4-0-0 4-0-0 2-5-0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.13	Vert(LL) -0.00 9 n/r 120	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.03	Vert(CT) -0.00 9 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00 8 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-S		Weight: 50 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E *Except*
3-5-5-7: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 SPF Utility

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. All bearings 12-10-0.

(lb) - Max Horz 2=44(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 16, 10

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 13, 14, 15, 12, 11 except 16=252(LC 23), 10=252(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed: MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 6-5-0, Exterior(2R) 6-5-0 to 9-5-0, Interior(1) 9-5-0 to 13-11-1 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.
- 4) All plates are 1x3 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 16, 10.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.
- 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.



EXPIRES: Jun 30, 2026
November 20, 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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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss E401	Truss Type COMMON	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443132
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:08 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzzIzh-clRZzK0cOQR0mKL9atbObyzzOJrDe3PH?PNKLNyHHWj

6-5-0
6-5-0

12-10-0
6-5-0

Scale = 1:21.2

5x6 =

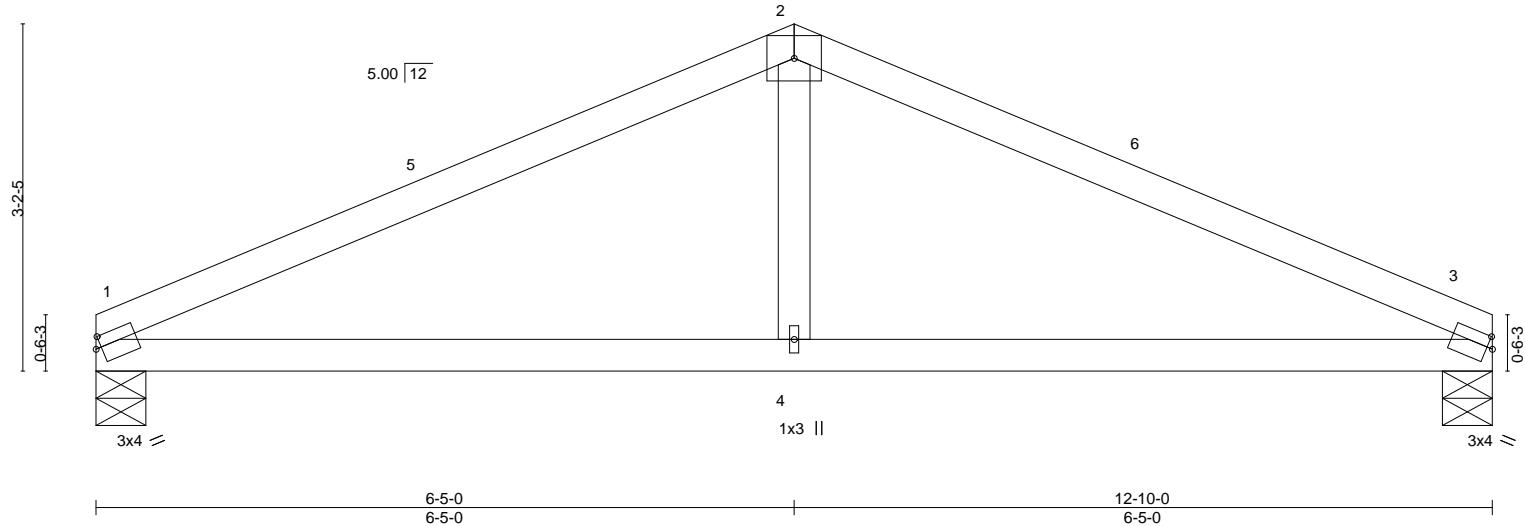


Plate Offsets (X,Y)-- [1:0-0-10,0-1-4], [3:0-0-10,0-1-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	-0.04	3-4	>999	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.36	Vert(CT)	-0.08	3-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	3	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.02	1-4	>999	240	Weight: 34 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 3=0-5-8
Max Horz 1=41(LC 10)
Max Uplift 1=72(LC 12), 3=72(LC 12)
Max Grav 1=458(LC 1), 3=458(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=702/294, 2-3=702/297
BOT CHORD 1-4=185/570, 3-4=185/570
WEBS 2-4=0/263

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 6-5-0, Exterior(2R) 6-5-0 to 9-5-0, Interior(1) 9-5-0 to 12-7-4 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.



EXPIRES: Jun 30, 2026
November 20,2024

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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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss E402	Truss Type COMMON GIRDER	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443133
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:09 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-5V?xBgOE9jatNUwM8a6d8AW2Oj6oNMaRD37tpyHHWi

6-5-0
6-5-0

12-10-0
6-5-0

Scale = 1:22.5

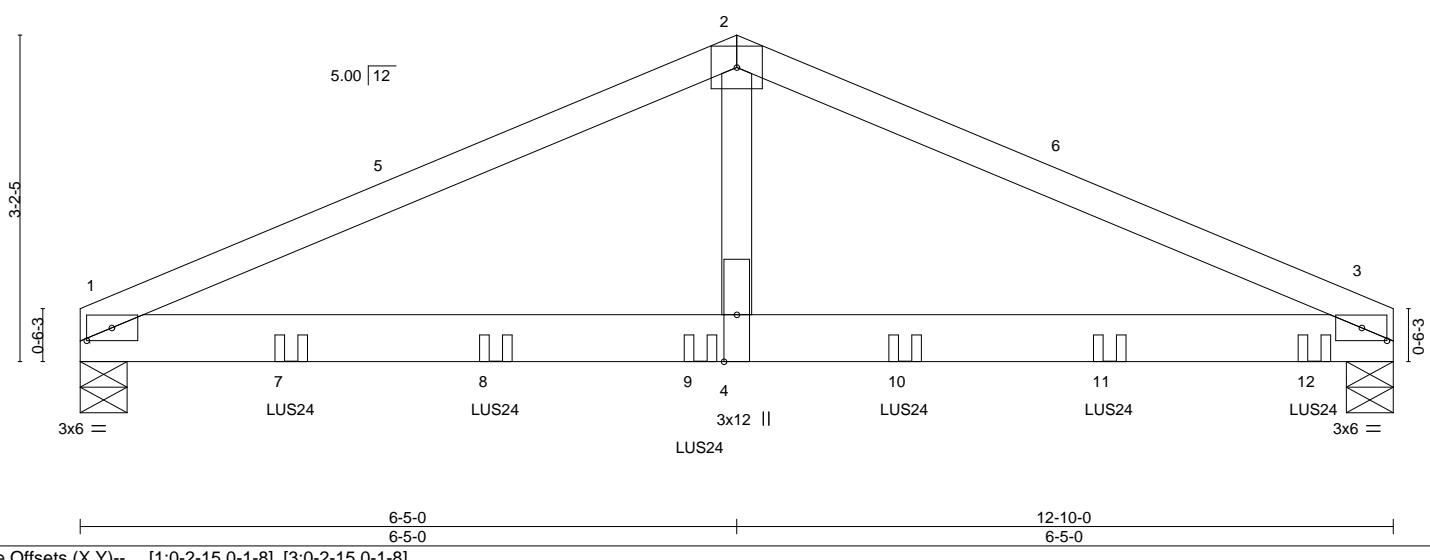


Plate Offsets (X,Y)-- [1:0-2-15,0-1-8], [3:0-2-15,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.83	Vert(LL)	-0.06	3-4	>999	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.15	3-4	>995	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.79	Horz(CT)	0.02	3	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.06	3-4	>999	240	Weight: 42 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Stds

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 3=0-5-8
Max Horz 1=40(LC 34)
Max Uplift 1=-231(LC 12), 3=-266(LC 12)
Max Grav 1=1394(LC 1), 3=1615(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-2289/567, 2-3=-2273/570
BOT CHORD 1-4=-436/2020, 3-4=-436/2020
WEBS 2-4=-192/1431

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 6-5-0, Exterior(2R) 6-5-0 to 9-5-0, Interior(1) 9-5-0 to 12-7-4 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
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=231, 3=266.
- 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.
- Use Simpson Strong-Tie LUS24 (4-10dx1 1/2 Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 12-0-12 to connect truss(es) to front face of bottom 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 + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 1-3=-14
Concentrated Loads (lb)
Vert: 7=-348(F) 8=-348(F) 9=-348(F) 10=-348(F) 11=-348(F) 12=-352(F)



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DS-B-22** available from the Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss F100	Truss Type GABLE	Qty 20	Ply 1	4-Plex-A - Farmhouse-Roof	R85443134
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:10 2024 Page 1
ID:3mCmX7wpmbwy7h639aarmzZlhj-ZhZJO0Psw1ik?eVYildsgN3F37ar6oCaSjsQPFyHHWh

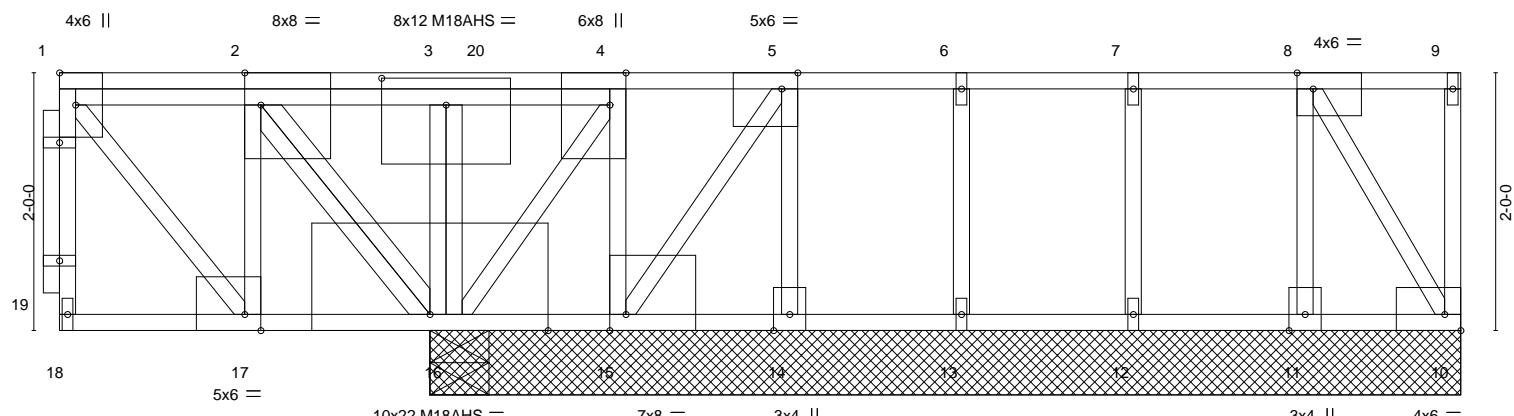
0-1-8

1-3-12

1-1-12 0-1-8 1-2-8

4-1-8

1-0-4 Scale = 1:17.9



SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

3-0-0 3-1-8 4-5-8 5-9-8 7-1-8 8-5-8 9-9-8 11-0-0
3-0-0 0-1-8 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-2-8

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-6-0,0-2-8], [4:0-3-0,Edge], [5:0-1-8,Edge], [8:0-1-8,Edge], [10:Edge,0-1-8], [15:0-1-8,Edge], [17:0-1-8,Edge]

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 0.71	Vert(LL)	0.00 15-16	>999	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.16	Vert(CT)	0.00 15-16	>999	360	M18AHS	142/136
BCLL 0.0	Rep Stress Incr	NO	WB 0.89	Horz(CT)	-0.01 10	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 66 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat)
OTHERS 2x4 HF/SPF Stud/Std(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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 17-18.

REACTIONS. All bearings 8-0-0 except (j=length) 16=0-7-0 (input: 0-5-8), 16=0-7-0 (input: 0-5-8).

(lb) - Max Horz 16=6(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) except 15=-231(LC 12), 14=-913(LC 12), 11=-329(LC 6), 10=-697(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 15 except 16=10373(LC 1), 16=10373(LC 1), 14=255(LC 4), 13=429(LC 9), 12=447(LC 1), 11=966(LC 1), 10=386(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=0/697, 2-3=0/2429, 3-4=0/2429, 4-5=0/1215, 5-6=-86/333, 6-7=-2/312,
7-8=-124/352

BOT CHORD 16-17=-697/0, 15-16=-1205/85, 14-15=-584/411, 13-14=-464/261, 12-13=-339/94,
11-12=-332/85, 10-11=-428/213

WEBS 3-16=-6561/0, 2-16=-2718/0, 2-17=0/836, 1-17=-1093/0, 4-15=-152/1296,
5-14=-241/931, 6-13=-417/0, 7-12=-433/0, 8-11=-952/342, 4-16=-2067/152,
8-10=-437/842, 5-15=-1540/270

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1x3 MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 16 = 7%
- Gable studs spaced at 1-4-0 oc.
- WARNING: Required bearing size at joint(s) 16, 16 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 15, 913 lb uplift at joint 14, 329 lb uplift at joint 11 and 697 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 8, 9 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- This truss has been designed for a total drag load of 1000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 3-0-0 to 11-0-0 for 125.0 pif.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

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

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



EXPIRES: Jun 30, 2026

November 20, 2024

MiTek
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss F100	Truss Type GABLE	Qty 20	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443134
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:10 2024 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 10-18--10

Concentrated Loads (lb)

Vert: 3=-5820 1=-465

Trapezoidal Loads (plf)

Vert: 1=-675-to-20=-692, 20=-294-to-9=-332

8) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 10-18--10

Concentrated Loads (lb)

Vert: 3=-5091 1=-465

Trapezoidal Loads (plf)

Vert: 1=-476-to-3=-491, 3=-411-to-20=-413, 20=-214-to-9=-252

9) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 10-18--10

Concentrated Loads (lb)

Vert: 3=-5820 1=-264

Trapezoidal Loads (plf)

Vert: 1=-396-to-3=-411, 3=-491-to-20=-493, 20=-294-to-9=-332



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/TP1 Quality Criteria and DSB-22](#) available from Truss Plate Institute (www.tpininst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbccomponents.com)

Job 24-1180-E	Truss F102	Truss Type Floor	Qty 70	Ply 1	4-Plex-A - Farmhouse-Roof	R85443135
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:10 2024 Page 1

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1-3-12

2-5-0

0-6-8

2-0-0

2-5-0

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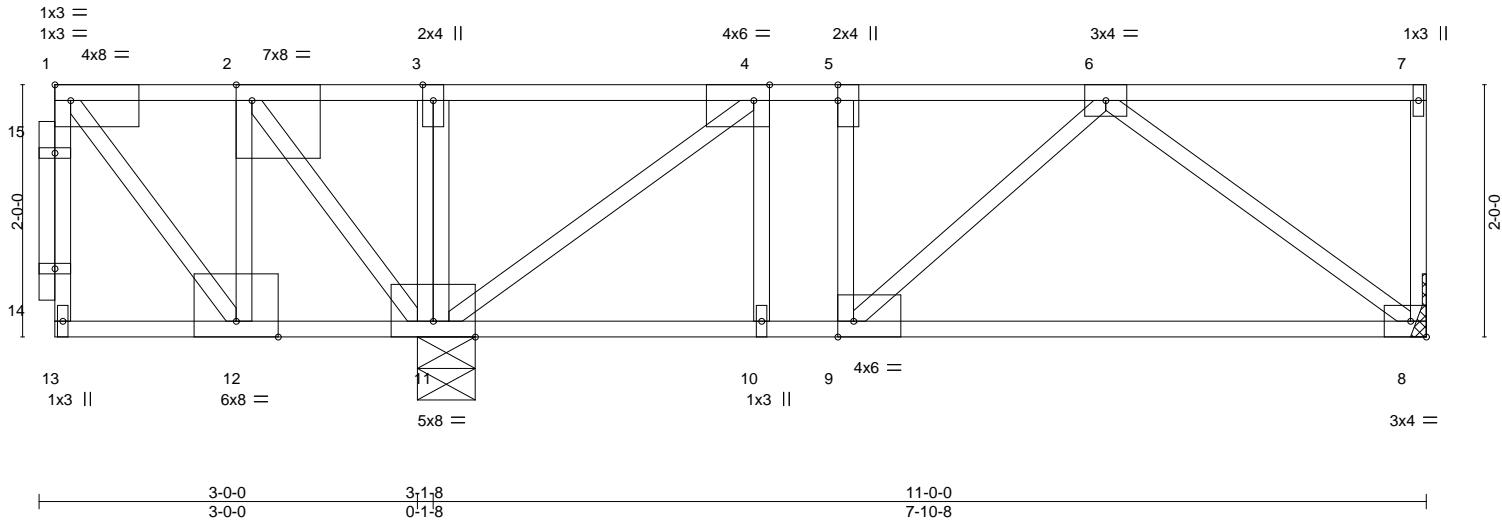


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [4:0-1-8,Edge], [5:0-1-8,0-0-0], [9:0-1-8,Edge]

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 0.94	Vert(LL)	-0.05	8-9	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.59	Vert(CT)	-0.15	8-9	>605	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.89	Horz(CT)	-0.01	8	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 56 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 12-13.

REACTIONS. (size) 11=0-5-8, 8=Mechanical
Max Uplift 8=-202(LC 3)
Max Grav 11=2543(LC 1), 8=155(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=0/969, 2-3=0/2160, 3-4=0/2162, 4-5=0/873, 5-6=0/873
BOT CHORD 11-12=-969/0, 10-11=-873/0, 9-10=-873/0, 8-9=-330/37
WEBS 6-8=-46/414, 4-11=1591/0, 6-9=-856/0, 4-10=0/266, 5-9=0/387, 1-12=-1593/0,
2-12=0/1293, 2-11=-1896/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 8.
- 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 10-0-0 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

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

Uniform Loads (plf)

Vert: 8-13=-10, 1-7=-110

Concentrated Loads (lb)

Vert: 1=-1200



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

Job 24-1180-E	Truss F102B	Truss Type Floor	Qty 50	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443136
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:11 2024 Page 1

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H | 1-3-12

2-5-0

2-0-0

1

2-5-0

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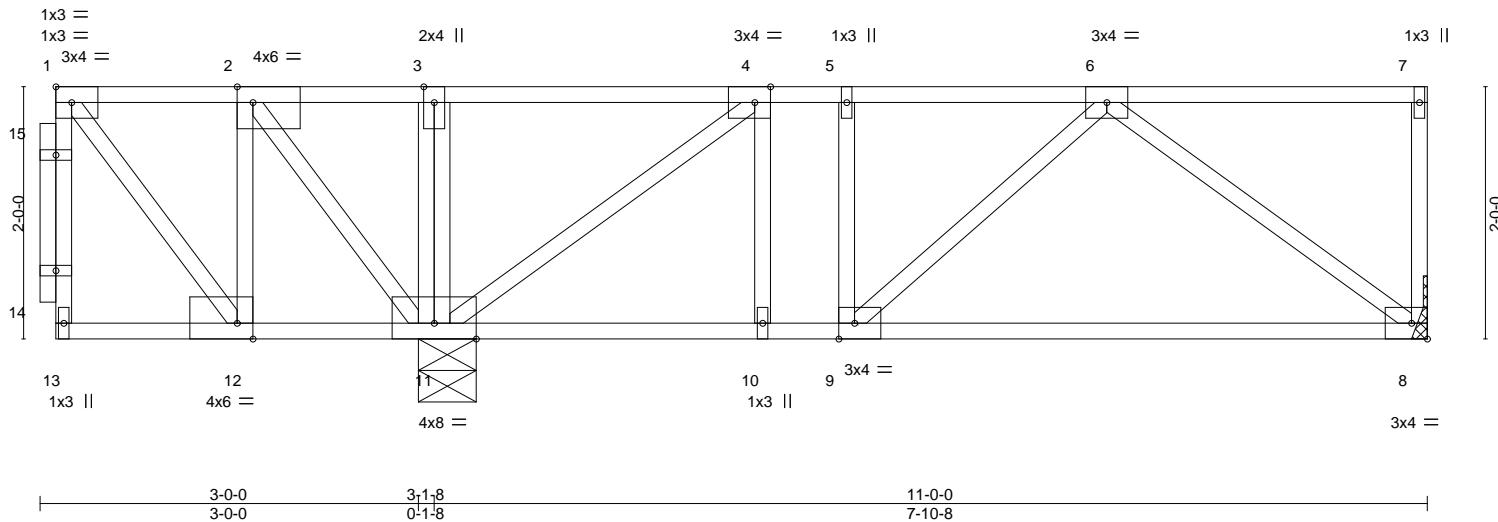


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [12:0-1-8,Edge]

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 0.81	Vert(LL)	-0.04	8-9	>999	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.47	Vert(CT)	-0.12	8-9	>753	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.37	Horz(CT)	0.00	8	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 56 lb	FT = 20%F, 11%E

LUMBER-

LUMBER

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 HF/SPF Stud/Std(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 12-13.

REACTIONS. (size) 11=0-5-8, 8=Mechanical
Max Uplift 8=-78(LC 3)
Max Grav 11=1496(LC 1), 8=279(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=0/390, 2-3=0/977, 3-4=0/977, 4-5=0/442, 5-6=0/442

BOT CHORD 11-12=-390/0, 10-11=-442/0, 9-10=-442/0

WEBS 6-8--251/209. 4-11--1021/0. 6-9--432/0. 1-12--642/0. 2-12=0/531. 2-11=-942/0

NOTES-

- NOTES:**

 - 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 8.
 - 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.
 - 5) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



EXPIRES: Jun 30, 2026

Entered: Sun, 05/12/2024
November 20,2024

Continued on page 2

 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 MTiDeck® 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 DSE-22** available from Truss Plate Institute (www.tpiinst.org) and **BCS1 Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com).

MiTek[®]
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss F102B	Truss Type Floor	Qty 50	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443136
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:11 2024 Page 2
ID:3mCmX7wpmbwy7h639aarmzZihj-1t7hcMQUhLqbdn4kG?85DbbPCXqJrNjhNc_yiyHHWg**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 1=440

4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 8-13=-10, 1-3=-30, 3-7=-110

Concentrated Loads (lb)

Vert: 1=440

5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 8-13=-10, 1-3=-110, 3-7=-30

Concentrated Loads (lb)

Vert: 1=440

6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 8-13=-10, 1-3=-30, 3-7=-110

Concentrated Loads (lb)

Vert: 1=440

7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 8-13=-10, 1-3=-30, 3-5=-110, 5-7=-30

Concentrated Loads (lb)

Vert: 1=440

8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 8-13=-10, 1-3=-110, 3-4=-30, 4-7=-110

Concentrated Loads (lb)

Vert: 1=440

9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 8-13=-10, 1-3=-30, 3-5=-110, 5-7=-30

Concentrated Loads (lb)

Vert: 1=440

10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 8-13=-10, 1-3=-110, 3-4=-30, 4-7=-110

Concentrated Loads (lb)

Vert: 1=440

**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/TP1 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.sbcsccomponents.com)

Job 24-1180-E	Truss F110	Truss Type Floor Girder	Qty 7	Ply 2	4-Plex-A - Farmhouse-Roof	R85443137
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Madera Comp Az, PHOENIX, AZ - 85043,

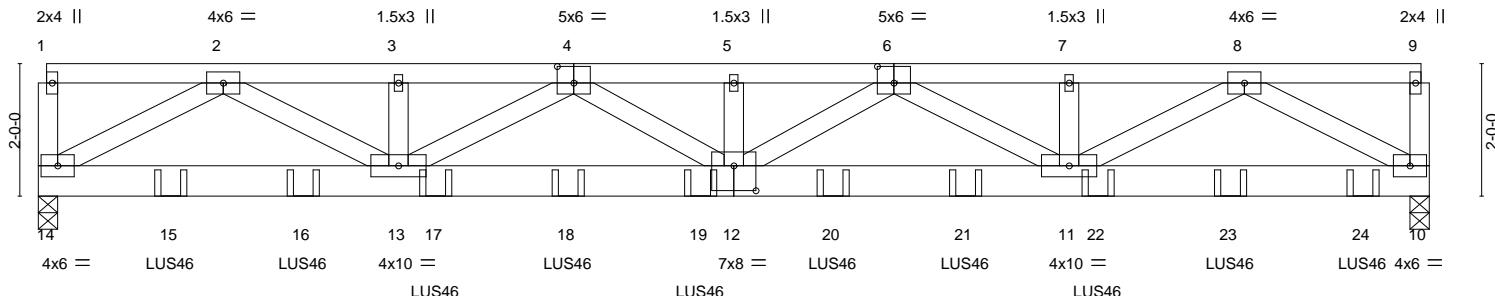
8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:11 2024 Page 1

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2-6-0

2-3-4 2-3-4

Scale = 1:34.8



21-0-0
21-0-0

Plate Offsets (X,Y)-- [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [12:0-4-0,0-4-8]

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 0.32	Vert(LL)	-0.33	12	>750	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.48	Vert(CT)	-0.27	12	>921	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.86	Horz(CT)	0.05	10	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 188 lb	FT = 11%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 10=0-3-8, 14=0-3-8

Max Grav 10=2003(LC 1), 14=1933(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4834/0, 3-4=-4834/0, 4-5=-6296/0, 5-6=-6296/0, 6-7=-4845/0, 7-8=-4845/0

BOT CHORD 13-14=0/2719, 12-13=0/5859, 11-12=0/5864, 10-11=0/2727

WEBS 8-10=-3093/0, 2-14=-3090/0, 8-11=-156/2486, 2-13=-150/2481, 7-11=-297/0,

3-13=-297/0, 6-11=-1197/0, 4-13=-1203/0, 4-12=-170/526, 5-12=-266/0, 6-12=-161/520

NOTES-

1) 2-ply truss to be connected together with 10d (0.131" x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced floor live loads have been considered for this design.

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.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) Use Simpson Strong-Tie LUS46 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-0 from the left end to 20-0-0 to connect truss(es) to back face of bottom chord.

7) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S)

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

Uniform Loads (plf)

Vert: 10-14=-10, 1-9=-110

Concentrated Loads (lb)

Vert: 15=-145(B) 16=-145(B) 17=-145(B) 18=-145(B) 19=-145(B) 20=-145(B) 21=-145(B) 22=-145(B) 23=-145(B) 24=-146(B)



EXPIRES: Jun 30, 2026

November 20, 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/TPI1 Quality Criteria and DSB-22** available from the Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 24-1180-E	Truss F110B	Truss Type Floor Girder	Qty 5	Ply 2	4-Plex-A - Farmhouse-Roof	R85443138
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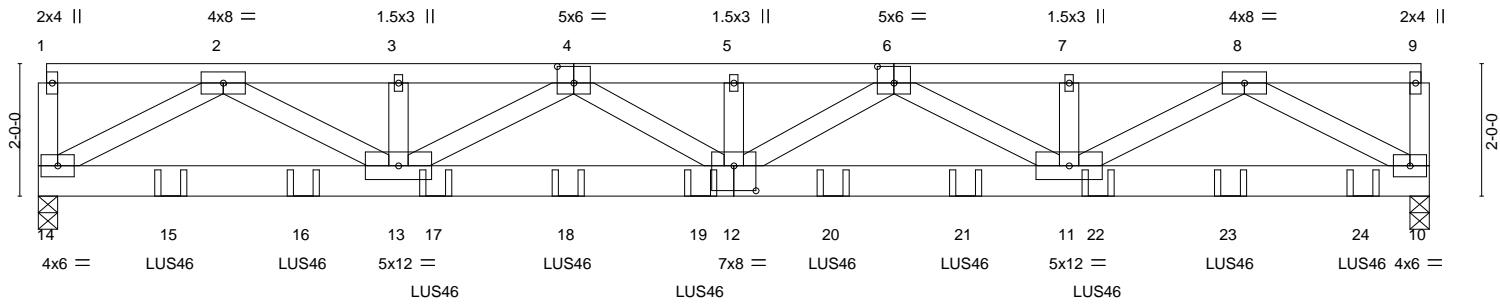
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:12 2024 Page 1
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2-6-0

2-3-4 2-3-4

Scale = 1:34.8



21-0-0
21-0-0

Plate Offsets (X,Y)-- [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [12:0-4-0,0-4-8]

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 0.69	Vert(LL)	-0.32	12	>766	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.77	Vert(CT)	-0.41	12	>603	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.58	Horz(CT)	0.07	10	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 187 lb	FT = 11%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 SPF No.2 *Except*
1-14,9-10,7-11,3-13,5-12: 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 14=0-3-8
Max Grav 10=3129(LC 1), 14=2955(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3--7612/0, 3-4--7612/0, 4-5--9861/0, 5-6--9861/0, 6-7--7638/0, 7-8--7638/0
BOT CHORD 13-14=0/4140, 12-13=0/9077, 11-12=0/9089, 10-11=0/4157
WEBS 8-10=4707/0, 2-14=4698/0, 8-11=0/4085, 2-13=0/4075, 6-11=1703/0, 4-13=-1719/0,
4-12=0/945, 6-12=0/930

NOTES-

1) 2-ply truss to be connected together with 10d (0.131" x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) 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.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) Use Simpson Strong-Tie LUS46 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-0 from the left end to 20-0-0 to connect truss(es) to back face of bottom chord.

6) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 10-14=-10, 1-9=-110

Concentrated Loads (lb)

Vert: 15=-360(B) 16=-360(B) 17=-360(B) 18=-360(B) 19=-360(B) 20=-360(B) 21=-360(B) 22=-360(B) 23=-360(B) 24=-361(B)



EXPIRES: Jun 30, 2026
November 20, 2024

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Job 24-1180-E	Truss F111	Truss Type Floor	Qty 200	Ply 1	4-Plex-A - Farmhouse-Roof	R85443139
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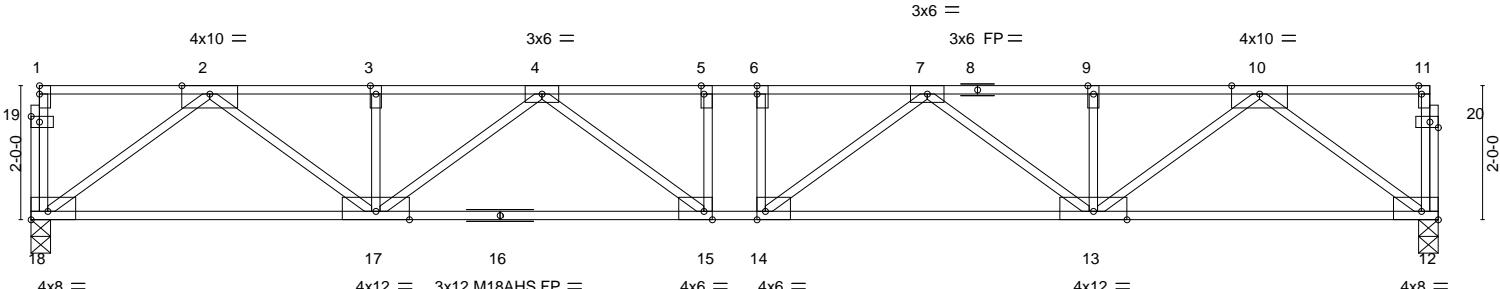
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:12 2024 Page 1
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0-1-8

H || 2-5-0

0-8-0

0-1-8
Scale 1:34.4

QUALIFIED BUILDING DESIGNER OR PROJECT ENGINEER SHALL REVIEW THE INPUT LENGTH AND PLACEMENT OF CONNECTION TO TRANSFER LATERAL FORCES TO THE SUPPORTING STRUCTURE AS STATED IN THE DRAG LOAD NOTE BELOW.

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,0-0-0], [11:0-1-8,Edge], [12:Edge,0-1-8], [14:0-1-8,Edge], [15:0-1-8,Edge], [18:Edge,0-1-8], [19:0-1-8,0-1-0], [20:0-1-8,0-1-0]							
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.50	Vert(LL)	-0.21 15	>999	480	MT20 185/144
TCDL 15.0	Lumber DOL 1.00	BC 0.94	Vert(CT)	-0.32 15-17	>772	360	M18AHS 142/136
BCLL 0.0	Rep Stress Incr YES	WB 0.91	Horz(CT)	0.08 12	n/a	n/a	
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S					Weight: 91 lb FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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 2-2-0 oc bracing.

REACTIONS. (size) 18=0-3-8, 12=0-3-8
Max Horz 18=8(LC 5)
Max Grav 18=1238(LC 1), 12=1238(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2564/0, 3-4=-2564/0, 4-5=-3461/0, 5-6=-3461/0, 6-7=-3461/0, 7-9=-2564/0,
9-10=-2564/0
BOT CHORD 17-18=0/1507, 15-17=0/3203, 14-15=0/3461, 13-14=0/3203, 12-13=0/1507
WEBS 10-12=-1868/0, 2-18=-1868/0, 10-13=0/1325, 2-17=0/1325, 9-13=-259/0, 3-17=-259/0,
7-13=-807/24, 4-17=-807/24, 7-14=-178/611, 4-15=-178/611

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 2x4 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.
- 5) This truss has been designed for a total drag load of 1300 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 21-0-0 for 61.9 plf.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



EXPIRES: Jun 30, 2026
November 20,2024

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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Roseville, CA 95661
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Job 24-1180-E	Truss F112	Truss Type GABLE	Qty 10	Ply 1	4-Plex-A - Farmhouse-Roof	R85443140
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:12 2024 Page 1
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0-1-8

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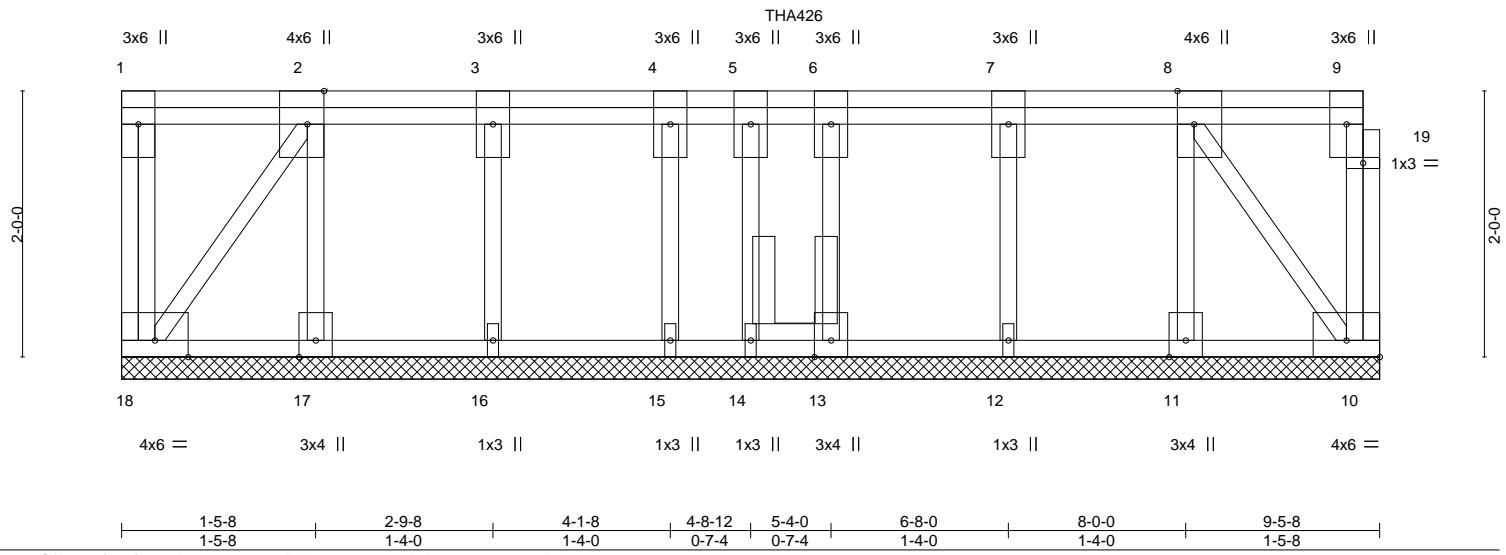


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [8:0-3-0,Edge], [10:Edge,0-1-8]

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 0.09	Vert(LL)	n/a	-	n/a	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	NO	WB 0.55	Horz(CT)	0.00	14	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 57 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 HF/SPF Stud/Std(flat)	
OTHERS 2x4 HF/SPF Stud/Std(flat)	

REACTIONS. All bearings 9-5-8.

- (lb) - Max Horz 18=9(LC 6)
- Max Uplift All uplift 100 lb or less at joint(s) 16, 15 except 18=-818(LC 6), 10=-819(LC 7), 11=-784(LC 6), 17=-775(LC 7)
- Max Grav All reactions 250 lb or less at joint(s) 16, 15 except 18=868(LC 5), 10=870(LC 4), 14=290(LC 1), 11=854(LC 5), 12=251(LC 1), 13=1206(LC 1), 17=863(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- TOP CHORD 2-3=-451/441, 3-4=-265/257, 6-7=-259/267, 7-8=-461/450
- BOT CHORD 17-18=-614/625, 16-17=-449/460, 15-16=-266/277, 12-13=-259/269, 11-12=-442/452, 10-11=-607/617
- WEBS 5-14=-288/0, 8-11=-839/799, 6-13=-1194/0, 2-17=-848/790, 2-18=-1071/1053, 8-10=-1073/1056

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Gable requires continuous bottom chord bearing.
- 3) Gable studs spaced at 1-4-0 oc.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 15 except (jt=lb) 18=818, 10=819, 11=784, 17=775.
- 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.
- 6) This truss has been designed for a total drag load of 1300 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 9-5-8 for 137.5 plf.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.
- 9) Use Simpson Strong-Tie THA426 (8-16d Girder, 6-16d Truss) or equivalent at 5-0-12 from the left end to connect truss(es) to front face of top chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 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) StandardEXPIRES: Jun 30, 2026
November 20,2024

Continued on page 2

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

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

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Job 24-1180-E	Truss F112	Truss Type GABLE	Qty 10	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443140
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:12 2024 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 10-18--10, 1-9--110

Concentrated Loads (lb)

Vert: 6=-1321(F)



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 24-1180-E	Truss F113	Truss Type Floor	Qty 30	Ply 1	4-Plex-A - Farmhouse-Roof	R85443141
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:13 2024 Page 1

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0-1-8

H | 2-5-0 |

| 1-0-12 |

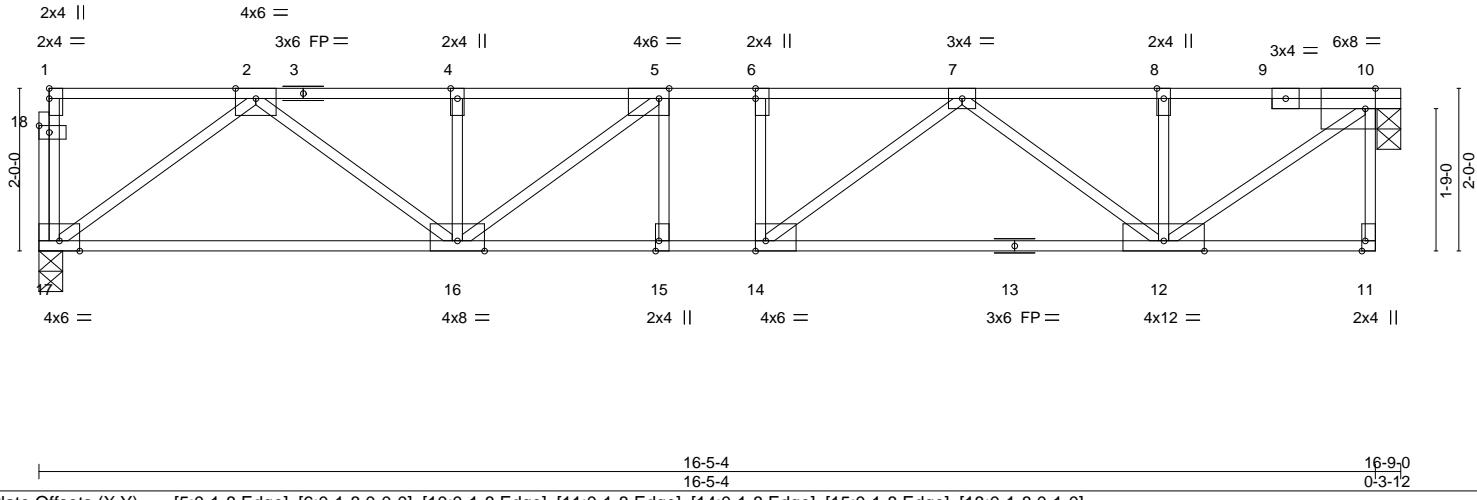
0-3-12
Scale = 1:28.3

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,0-0-0], [10:0-1-8,Edge], [11:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [18:0-1-8,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.41	Vert(LL) -0.12 12-14 >999 480	MT20	185/144
TCDL 15.0	Lumber DOL 1.00	BC 0.70	Vert(CT) -0.19 12-14 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.01 10 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 74 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SPF No.2(flat)
 WEBS 2x4 HF/SPF Stud/Std(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) 17=0-3-8, 10=0-3-8
 Max Grav 17=968(LC 1), 10=975(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1844/0, 4-5=-1844/0, 5-6=-2122/0, 6-7=-2122/0, 7-8=-1150/0, 8-10=-1154/0
 BOT CHORD 16-17=0/1140, 15-16=0/2122, 14-15=0/2122, 12-14=0/1828
 WEBS 10-12=0/1412, 2-17=-1412/0, 8-12=-263/0, 2-16=0/883, 7-12=-850/0, 4-16=-307/0,
 7-14=0/508, 5-16=-506/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) 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.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 5) CAUTION, Do not erect truss backwards.

EXPIRES: Jun 30, 2026
November 20, 2024

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Roseville, CA 95661
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Job 24-1180-E	Truss F114	Truss Type Floor	Qty 40	Ply 1	4-Plex-A - Farmhouse-Roof	R85443142
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:13 2024 Page 1
ID:3mCmX7wpmmbwy7h639aarmzZihj-zGFS12SkDy4Js5E7NQBZI0hq8KRgJct08h550ayHHWe

0-1-8

H | 2-5-0 |

1-6-0

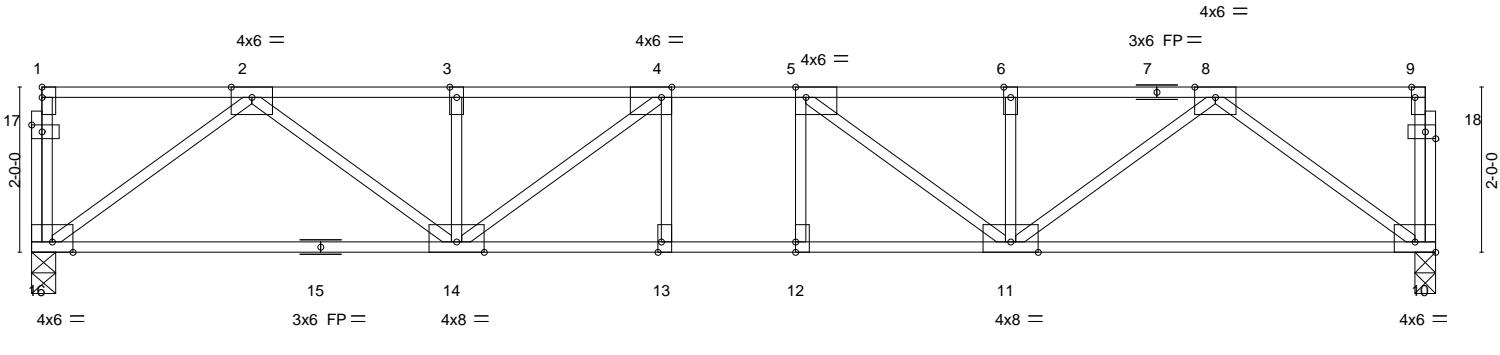
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Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [9:0-1-8,Edge], [10:Edge,0-1-8], [12:0-1-8,0-0-0], [13:0-1-8,Edge], [17:0-1-8,0-1-0], [18:0-1-8,0-1-0]

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 0.47	Vert(LL)	-0.14	13-14	>999	480	
TCDL 15.0	Lumber DOL	1.00	BC 0.79	Vert(CT)	-0.18	13-14	>999	360	
BCLL 0.0	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.04	10	n/a	n/a	
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 75 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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) 16=0-3-8, 10=0-3-0

Max Grav 16=998(LC 1), 10=998(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1924/0, 3-4=-1924/0, 4-5=-2241/0, 5-6=-1924/0, 6-8=-1924/0
BOT CHORD 14-16=0/1180, 13-14=0/2241, 12-13=0/2241, 11-12=0/2241, 10-11=0/1180
WEBS 8-10=-1462/0, 2-16=-1462/0, 8-11=0/933, 2-14=0/933, 6-11=-315/0, 3-14=-315/0,
5-11=-565/0, 4-14=-565/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) 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.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

EXPIRES: Jun 30, 2026
November 20,2024**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 1/2/2023 BEFORE USE.**

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

MiTek®
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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss F115	Truss Type Floor	Qty 10	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443143
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:14 2024 Page 1
ID:3mCmX7wpmmbwy7h639aarmzZihj-RSpqENSN_GCAUfOJx7iorDD?5koK2adANLqeY1yHHWd

8.830 s Nov 8 2024 MiTek Industries, Inc.

R85443143

0-1-8

2-5-0

1-4-4

0-3-12
Scale = 1:28.8

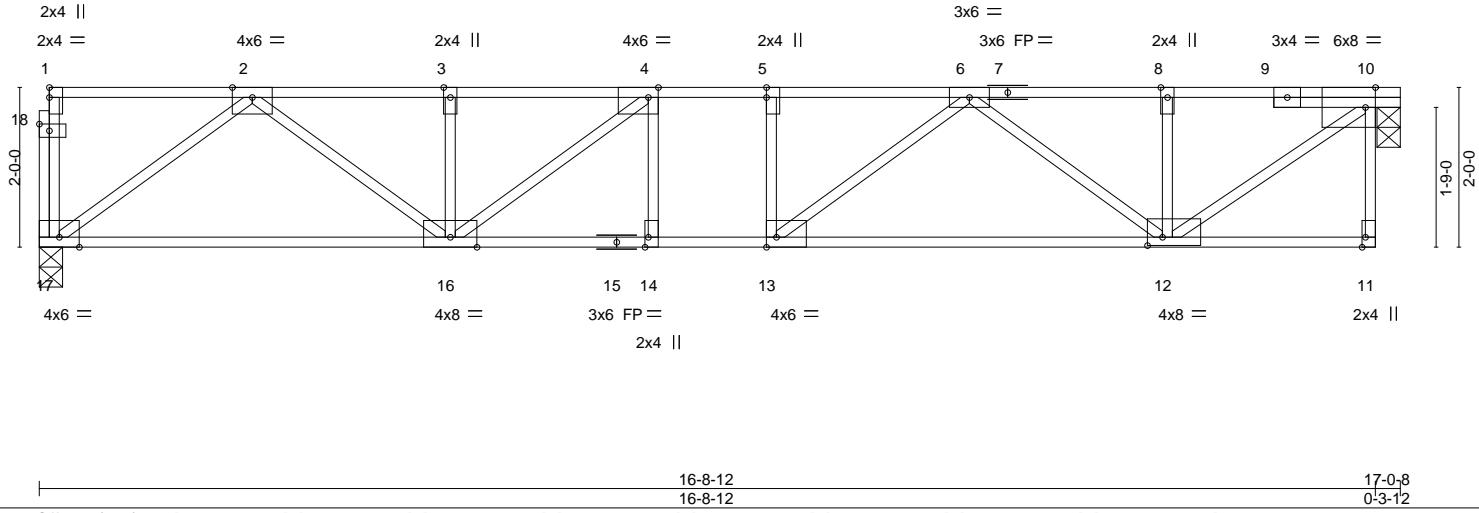


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,0-0-0], [10:0-1-8,Edge], [11:0-1-8,Edge], [12:0-2-4,0-1-4], [13:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,0-1-0]										
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.45	Vert(LL)	-0.15	12-13	>999	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.77	Vert(CT)	-0.23	12-13	>881	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.02	10	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 75 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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.

Max Grav 17=986(LC 1), 10=992(LC 1)

FORCES
TOP CLICK

TOP CHORD 2-3-1891/0, 3-4=1891/0, 4-5=-2192/0, 5-6=-2192/0, 6-8=-1173/0, 8-10=-1178/0
 BOT CHORD 16-17=0/1163, 14-16=0/2192, 13-14=0/2192, 12-13=0/1874
 WEBS 10-12=0/1441, 2-17=-1441/0, 8-12=-263/0, 2-16=0/912, 6-12=-878/0, 3-16=-313/0,
 6-13=0/547, 4-16=-548/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) 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.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 5) CAUTION: Do not erect truss backwards



EXPIRES: Jun 30, 2026
November 20,2024



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MI-74/75 rev. 11/2023 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/TP1 Quality Criteria and DSE-22**, available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information**, available from the Structural Building Components Association (www.sbcsccomponents.com).

MiTek[®]
400 Sunrise Ave., Suite 270
Roseville, CA 95661
04-755-2574 / MITEK-US.com

Job 24-1180-E	Truss F116	Truss Type Floor Girder	Qty 10	Ply 1	4-Plex-A - Farmhouse-Roof	R85443144
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:14 2024 Page 1
ID:3mCmX7wpmmbwy7h639aarmzZihj-RSpqENSN_GCAUFOJx7iorDDu0kme2asANLqeY1yHHWd

0-1-8

H 2-5-0

0-8-0

0-1-8
Scale = 1:34.9

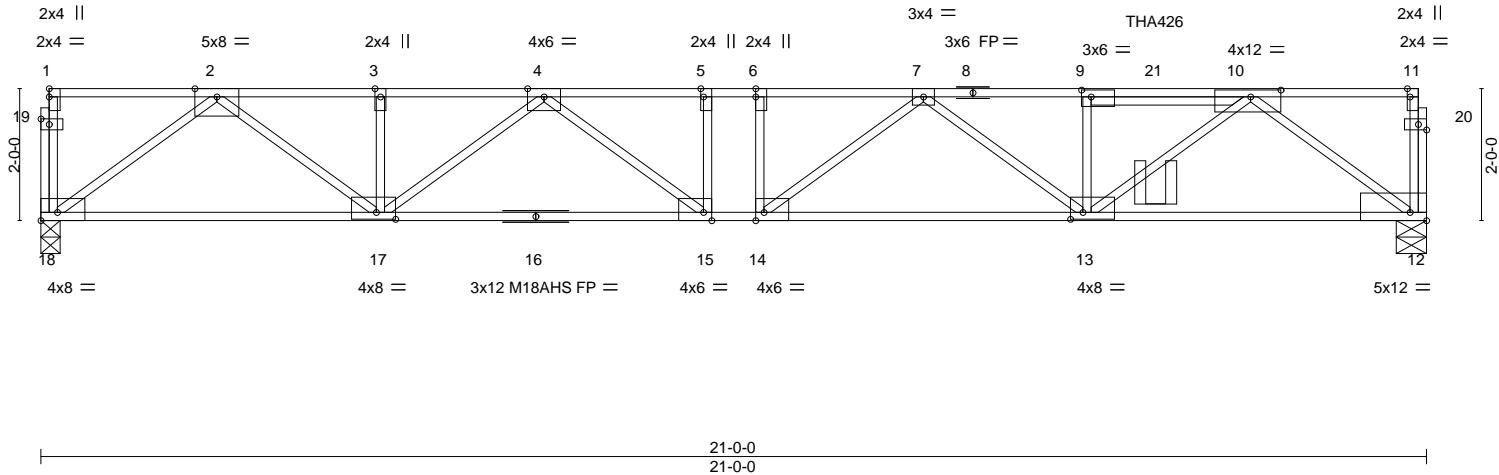


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,0-0-0], [9:0-1-12,0-1-4], [10:0-5-8,0-1-4], [11:0-1-8,Edge], [12:Edge,0-1-8], [13:0-2-4,0-1-4], [14:0-1-8,Edge], [15:0-1-8,Edge], [17:0-3-8,0-1-4], [18:Edge,0-1-8], [19:0-1-8,0-1-0], [20:0-1-8,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 2-0-0	TC 0.91	Vert(LL)	-0.25	13-14	>983	480	MT20 185/144
TCDL 15.0	Lumber DOL 1.00	BC 0.87	Vert(CT)	-0.40	13-14	>630	360	M18AHS 142/136
BCLL 0.0	Rep Stress Incr NO	WB 0.98	Horz(CT)	0.09	12	n/a	n/a	
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S					Weight: 94 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 1650F 1.5E(flat)
WEBS 2x4 HF/SPF Stud/Std(flat) *Except*
2-17: 2x4 SPF No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins,
except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 18=0-3-8, 12=0-5-8
Max Grav 18=1343(LC 1), 12=1680(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2843/0, 3-4=-2843/0, 4-5=-4040/0, 5-6=-4040/0, 6-7=-4040/0, 7-9=-3460/0,
9-10=-3472/0

BOT CHORD 17-18=0/1647, 15-17=0/3621, 14-15=0/4040, 13-14=0/3938, 12-13=0/2348

WEBS 10-12=-2813/0, 2-18=-2042/0, 10-13=0/1419, 2-17=0/1499, 9-13=-461/0, 3-17=-264/0,

7-13=-599/0, 4-17=-975/0, 7-14=-250/328, 4-15=0/753, 5-15=-289/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates 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 10-0-0 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 THA426 (8-16d Girder, 6-16d Truss) or equivalent at 16-10-12 from the left end to connect truss(es) to back 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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 12-18=-10, 1-11=-110

Concentrated Loads (lb)

Vert: 21=-546(B)



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpiinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

Job 24-1180-E	Truss F118	Truss Type Floor Girder	Qty 10	Ply 2	4-Plex-A - Farmhouse-Roof	R85443146
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:15 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZlhj-vfMCSjT?IZK15PNVrD1NRmBS8GSn7rJc?aB5TyHHWc

1-6-12

3-2-12

3-2-12

Scale = 1:34.8

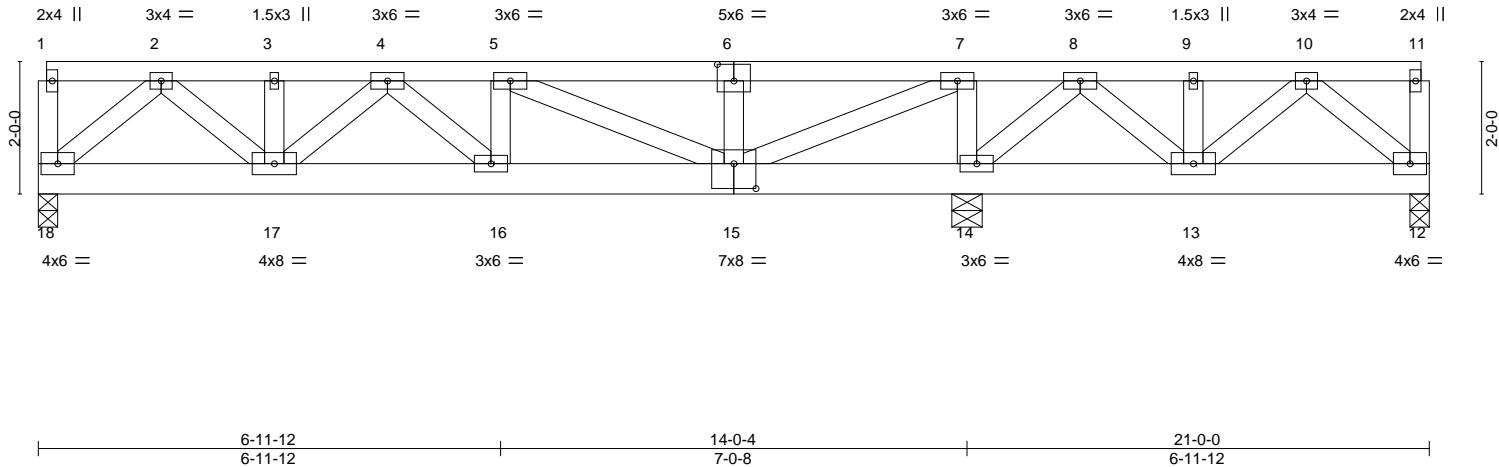


Plate Offsets (X,Y)-- [6:0-3-0,0-3-0], [15:0-4-0,0-4-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES
TCLL 40.0	Plate Grip DOL	1.00	TC 0.41	Vert(LL)	-0.02	16	>999	480	MT20
TCDL 15.0	Lumber DOL	1.00	BC 0.20	Vert(CT)	-0.03	16	>999	360	
BCLL 0.0	Rep Stress Incr	NO	WB 0.55	Horz(CT)	0.01	12	n/a	n/a	
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 196 lb FT = 11%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x6 SPF 1650F 1.5E
 WEBS 2x4 HF/SPF Stud/Std

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15.

REACTIONS. (size) 12=0-3-8, 14=0-5-8, 18=0-3-8
 Max Grav 12=2505(LC 1), 14=5540(LC 1), 18=673(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 11-12=-565/0, 2-3=-968/0, 3-4=-968/0, 4-5=-1130/0, 5-6=-331/215, 6-7=-331/215, 7-8=0/1356, 8-9=-2186/0, 9-10=-2186/0
 BOT CHORD 17-18=0/599, 16-17=0/1127, 15-16=0/1130, 14-15=-1356/0, 13-14=0/1108, 12-13=0/1870
 WEBS 7-14=-2734/0, 5-15=-983/0, 6-15=-380/0, 7-15=0/1589, 8-14=-3401/0, 8-13=0/1488, 9-13=-1169/0, 10-13=0/499, 10-12=-2465/0, 2-18=-802/0, 2-17=0/509

NOTES-

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

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 14-18=-10, 12-14=-105(F=-95), 1-7=-110, 7-11=-745
 Concentrated Loads (lb)
 Vert: 7=-1207



EXPIRES: Jun 30, 2026
 November 20, 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/TPI1 Quality Criteria and DS-B-22** available from Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®
 400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss F119	Truss Type GABLE	Qty 10	Ply 1	4-Plex-A - Farmhouse-Roof	R85443147
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:16 2024 Page 1
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0 1 8

0 1 8

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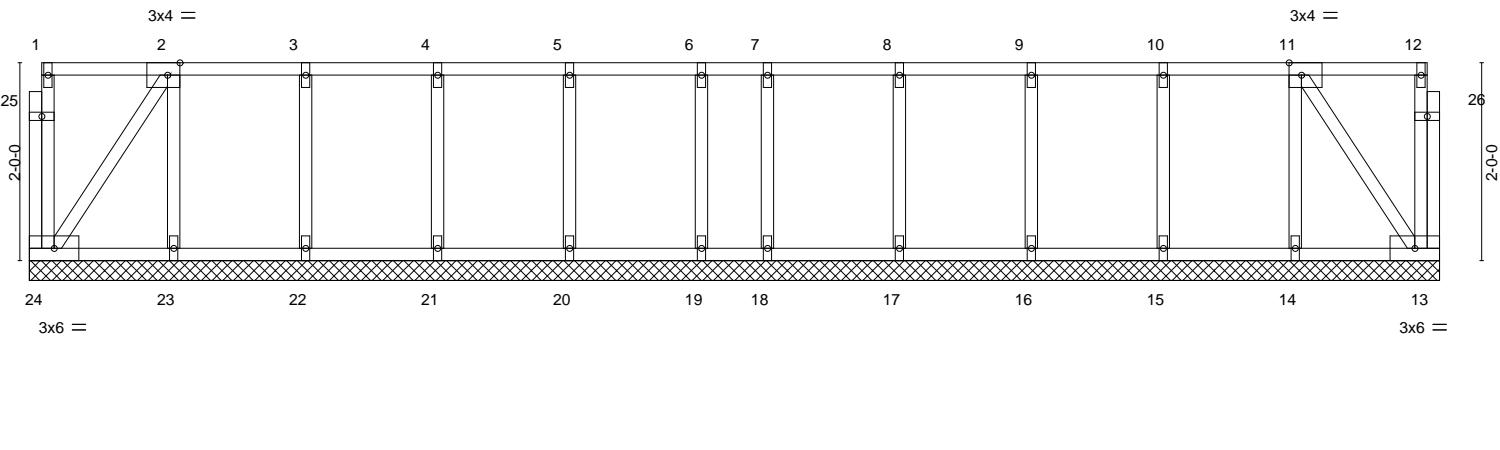


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [11:0-1-8,Edge]											
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a	999	MT20	185/144	
TCDL 15.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999			
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	13	n/a	n/a			
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 65 lb	FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat)
OTHERS 2x4 HF/SPF Stud/Std(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. All bearings 14-3-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 14, 15, 16, 17, 18, 23, 22, 21, 20, 19

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.**NOTES-**

- 1) All plates are 1x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Gable studs spaced at 1-4-0 oc.
- 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

EXPIRES: Jun 30, 2026
November 20,2024**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/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss F120	Truss Type FLOOR GIRDER	Qty 10	Ply 1	4-Plex-A - Farmhouse-Roof	R85443148
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:16 2024 Page 1
ID:3mCmX7wpmmbwy7h639aarmzZihj-Nrwaf3UdWtSujZyi2YkGweJtYYSWa_SqJldvyHHWb

2-6-0

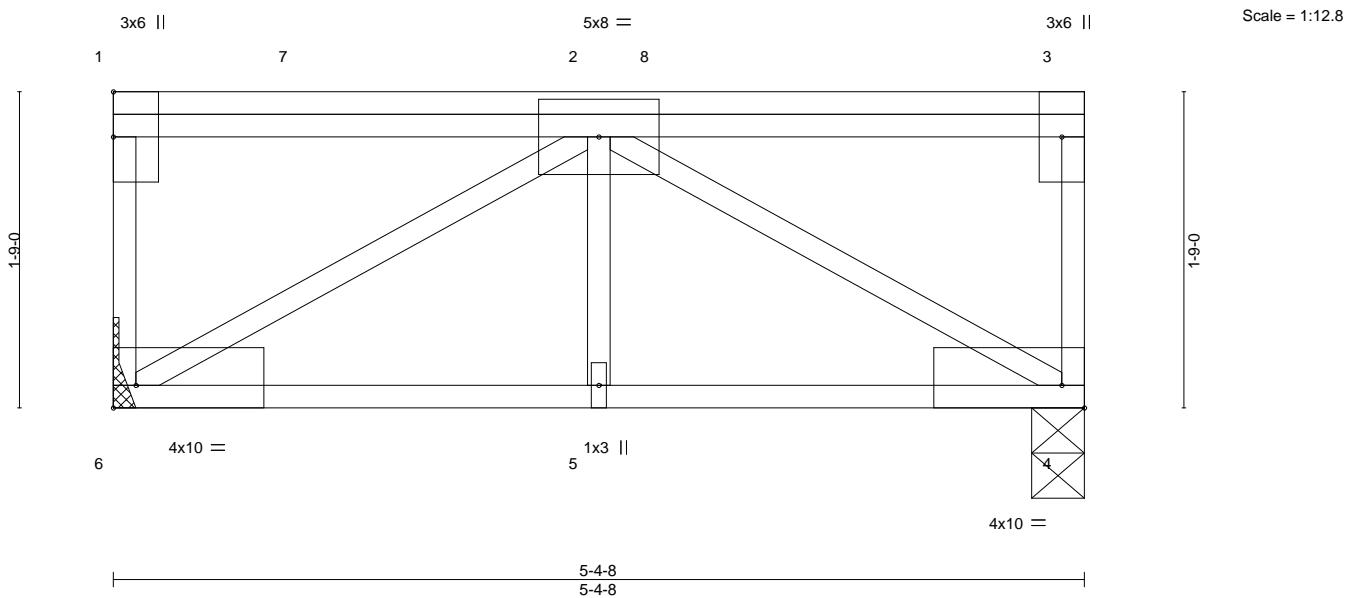


Plate Offsets (X,Y)-- [4:Edge,0-1-8], [6:Edge,0-1-8]

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 0.63	Vert(LL)	-0.02	5	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.47	Vert(CT)	-0.03	5	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.56	Horz(CT)	0.01	4	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-P						Weight: 30 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins,
except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=0-3-8
Max Grav 6=1431(LC 1), 4=1940(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-6=-556/0, 3-4=-1065/0
BOT CHORD 5-6=0/1447, 4-5=0/1447
WEBS 2-6=-1684/0, 2-4=-1684/0

NOTES-

- 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 10-0-0 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

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

Uniform Loads (plf)

Vert: 4-6=10, 1-3=-130

Concentrated Loads (lb)

Vert: 3=-907 7=-865 8=-865



EXPIRES: Jun 30, 2026
November 20,2024

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

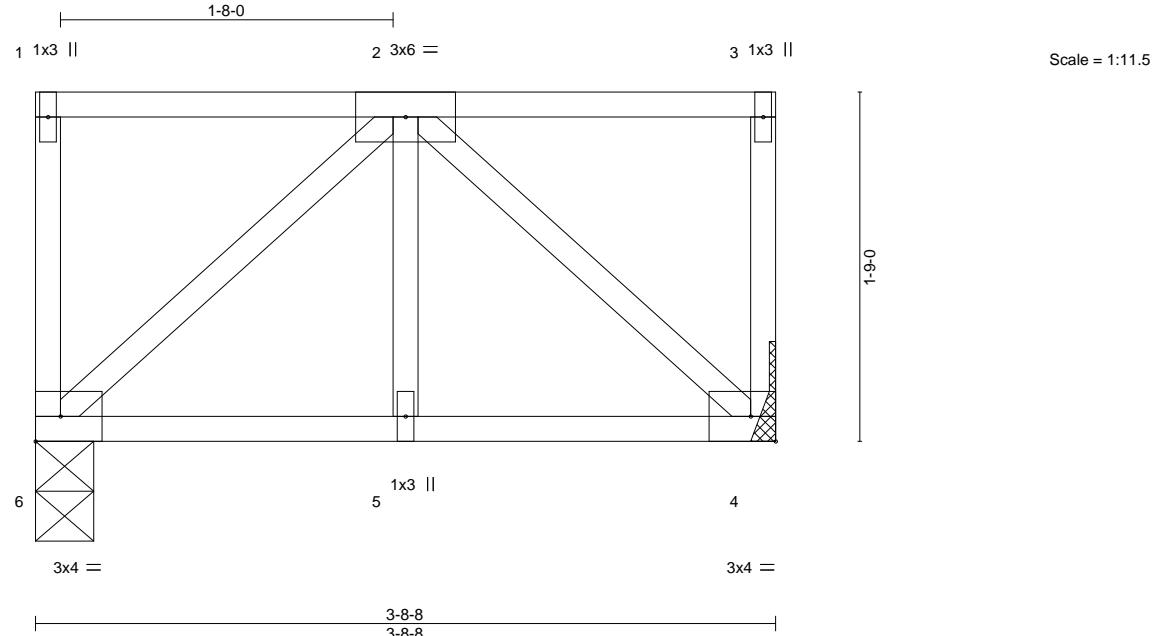
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss F121	Truss Type Floor Girder	Qty 10	Ply 1	4-Plex-A - Farmhouse-Roof	R85443149
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:16 2024 Page 1
ID:3mCmX7wpmmbw7h639aarmzZihj-Nrwaf3UdWtSujZyiYkGweJQkYcXWfiSqfJldvyHHWb



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 0.19	Vert(LL)	-0.01	5	>999	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.21	Vert(CT)	-0.01	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-P						Weight: 19 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat)

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

REACTIONS. (size) 6=0-3-8, 4=Mechanical
Max Grav 6=656(LC 1), 4=656(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

BOT CHORD 5-6=0/628, 4-5=0/628
WEBS 2-6=-847/0, 2-4=-847/0

NOTES-

- 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 10-0-0 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

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)

Vert: 4-6=10, 1-3=11

Concentrated Loads (lb)

Vert: 2=882



EXPIRES: Jun 30, 2026
November 20,2024

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 24-1180-E	Truss F400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443150
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:17 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzihj-s1UysPVFBallixucGFVSSrYhx_UF25c3J3I9MyHHWa

0-1-8

1-3-12

1-1-12

5-5-8

1-1-0

Scale = 1:18.3

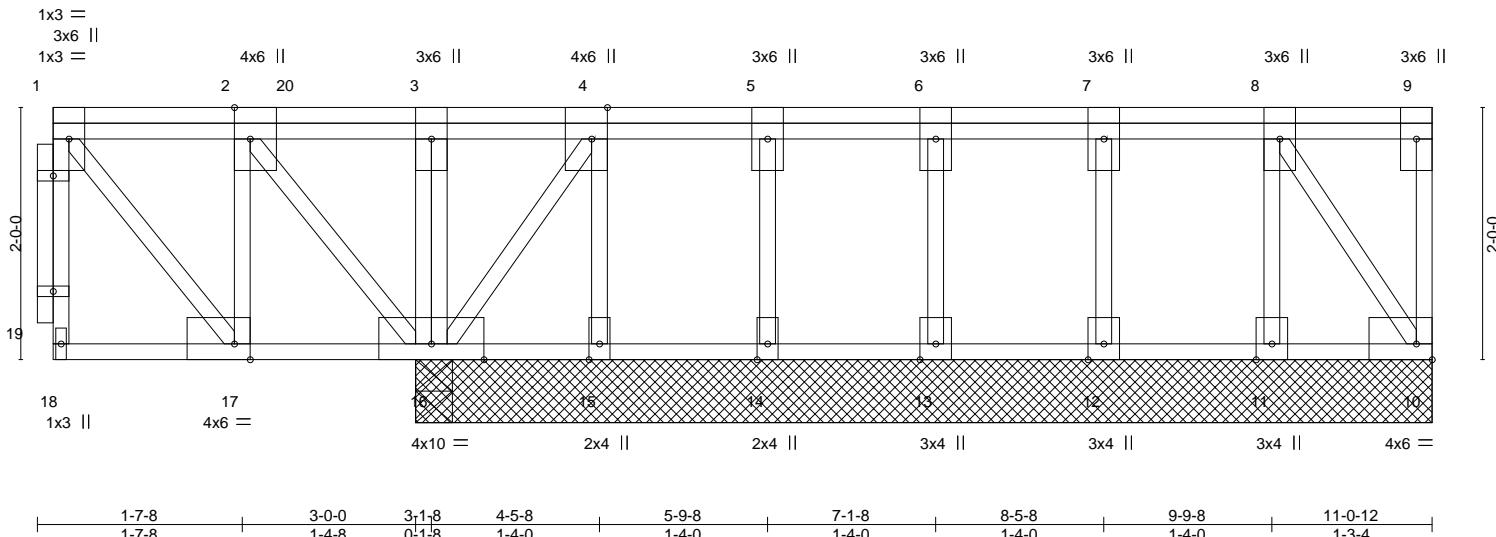


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [4:0-3-0,Edge], [10:Edge,0-1-8], [17:0-1-8,Edge]

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 0.37	Vert(LL)	0.00 16	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.10	Vert(CT)	0.00 15-16	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.50	Horz(CT)	-0.00 10	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 67 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat)
OTHERS 2x4 HF/SPF Stud/Std(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 17-18.

REACTIONS. All bearings 8-0-12.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 15=-711(LC 3), 10=-247(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 15, 10 except 16=4049(LC 1), 16=4049(LC 1), 14=923(LC 4), 13=983(LC 1), 12=977(LC 1), 11=1351(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 9-10=-350/0, 1-2=0/434, 2-3=0/1265, 3-4=0/1264, 4-5=0/311, 5-6=0/311, 6-7=0/311,

7-8=0/311

BOT CHORD 16-17=-431/0, 15-16=-311/0, 14-15=-311/0, 13-14=-311/0, 12-13=-311/0, 11-12=-311/0,

10-11=-311/0

WEBS 3-16=-1623/0, 2-17=0/513, 1-17=-672/0, 2-16=-1311/0, 4-15=-19/705, 5-14=-906/0,

6-13=-971/0, 7-12=-964/0, 8-11=-1337/0, 4-16=-1718/0, 8-10=0/560

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Gable studs spaced at 1-4-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 711 lb uplift at joint 15 and 247 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

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

Uniform Loads (plf)

Vert: 10-18=-10, 1-3=-235, 3-9=-715

Concentrated Loads (lb)

Vert: 1=378 3=-899 20=-170



EXPIRES: Jun 30, 2026

November 20, 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/TPI1 Quality Criteria and DSB-22** available from the Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Roseville, CA 95661
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Job 24-1180-E	Truss F400B	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443151
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:17 2024 Page 1
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0-1-8

1-3-12

0-4-8 0-9-4 0-11-8

1-2-8

4-1-8

1-1-0

Scale = 1:18.3

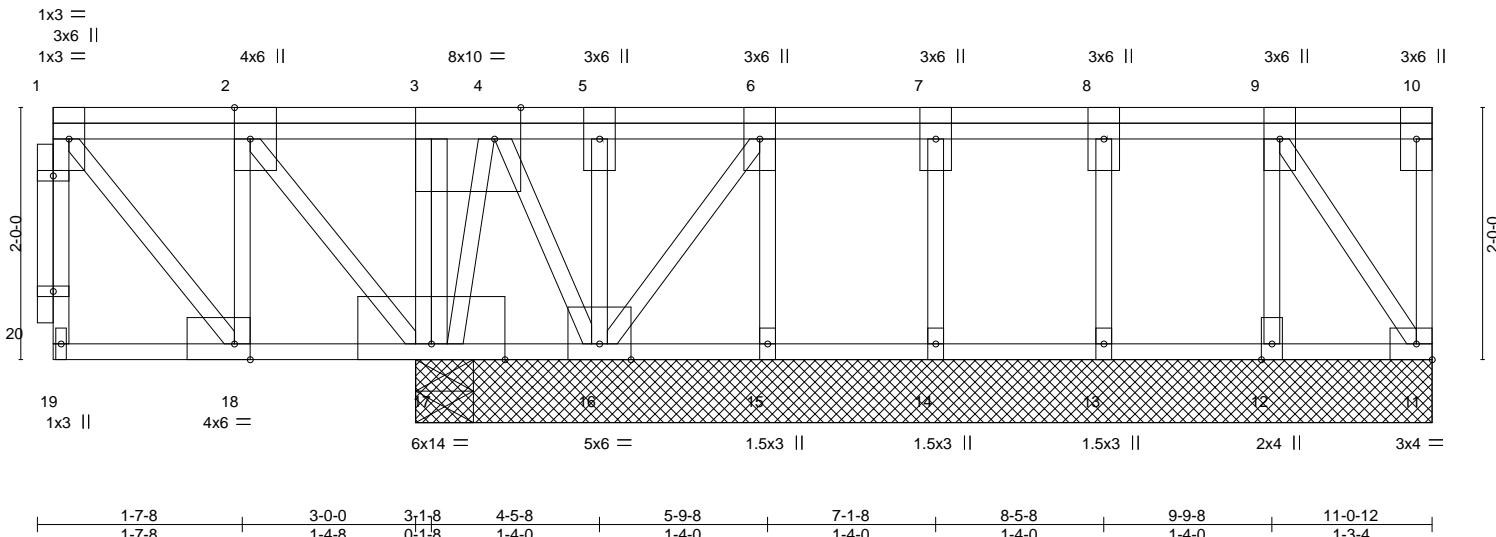


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-2-8,Edge], [18:0-1-8,Edge]

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 0.38	Vert(LL)	0.00 17	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.11	Vert(CT)	0.00 16-17	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.64	Horz(CT)	-0.00 11	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 72 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat)
OTHERS 2x4 HF/SPF Stud/Std(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 18-19.

REACTIONS. All bearings 8-0-12.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 15=-345(LC 3), 11=-162(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 11 except 17=6132(LC 1), 17=6132(LC 1), 16=562(LC 4), 14=518(LC 4), 13=585(LC 1), 12=820(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=0/351, 2-3=0/1410, 3-4=0/1456, 4-5=0/799, 5-6=0/799
BOT CHORD 17-18=-345/0, 16-17=-1146/0
WEBS 3-17=-3597/0, 2-18=0/408, 1-18=-538/0, 2-17=-1667/0, 5-16=-310/0, 6-15=0/363, 7-14=-506/0, 8-13=-571/0, 9-12=-805/0, 4-17=-1255/0, 9-11=0/353, 6-16=-1065/0, 4-16=0/926

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Gable studs spaced at 1-4-0 oc.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint 15 and 162 lb uplift at joint 11.
- 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-19=-10, 1-4=-488, 4-10=-408
Concentrated Loads (lb)
Vert: 1=118 3=3255

EXPIRES: Jun 30, 2026
November 20,2024**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/TPI1 Quality Criteria and DS-B-22** available from Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

Job 24-1180-E	Truss F401	Truss Type Floor	Qty 40	Ply 1	4-Plex-A - Farmhouse-Roof	R85443152
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:18 2024 Page 1
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0-1-8

1-3-12

2-5-0

0-7-4

2-0-0

2-5-0

Scale = 1:18.4

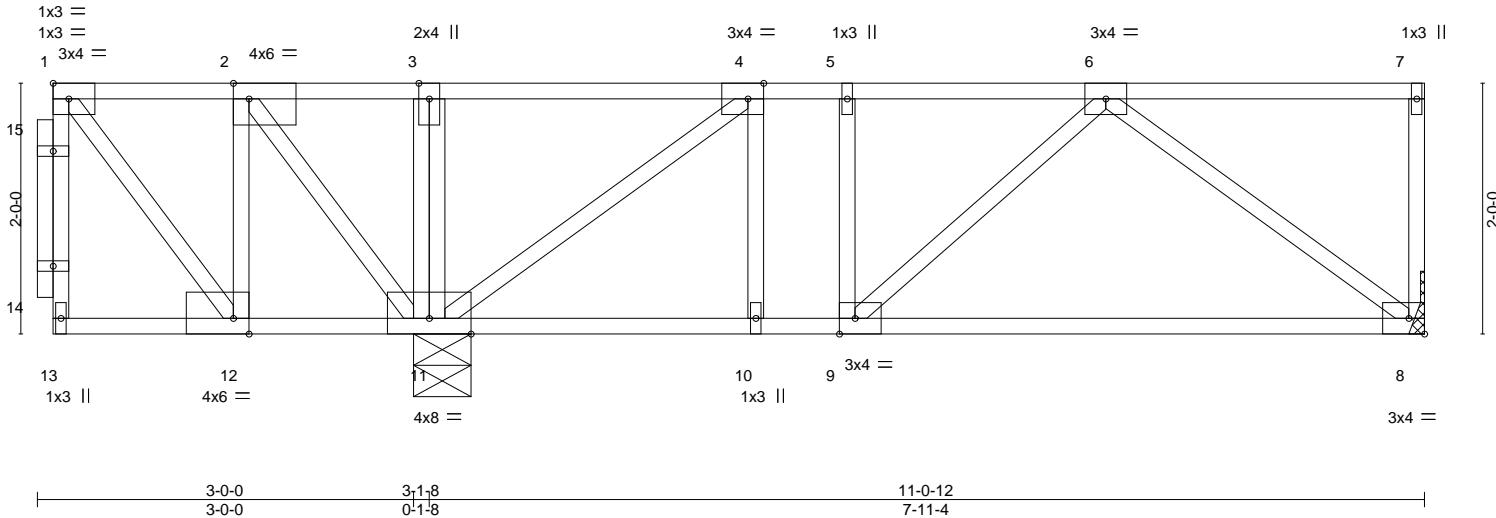


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [12:0-1-8,Edge]

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 0.80	Vert(LL)	-0.05	8-9	>999	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.44	Vert(CT)	-0.13	8-9	>718	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.00	8	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 56 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 12-13.

REACTIONS. (size) 11=0-5-8, 8=Mechanical
Max Uplift 8=61(LC 3)
Max Grav 11=1609(LC 1), 8=298(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=0/452, 2-3=0/1084, 3-4=0/1085, 4-5=-31/403, 5-6=-31/403
BOT CHORD 11-12=-452/0, 10-11=-403/31, 9-10=-403/31
WEBS 6-8=-282/181, 4-11=-1094/0, 6-9=-415/0, 1-12=-742/0, 2-12=0/613, 2-11=-1006/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 8.
- 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

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

Uniform Loads (plf)

Vert: 8-13=-10, 1-7=-110

Concentrated Loads (lb)

Vert: 1=-521



EXPIRES: Jun 30, 2026
November 20,2024

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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MiTek®
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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss F402	Truss Type Floor	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443153
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:18 2024 Page 1
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0-1-8

1-3-12 | 2-5-0 | 0-7-4 | 2-0-0 | 2-5-0 | Scale = 1:18.4

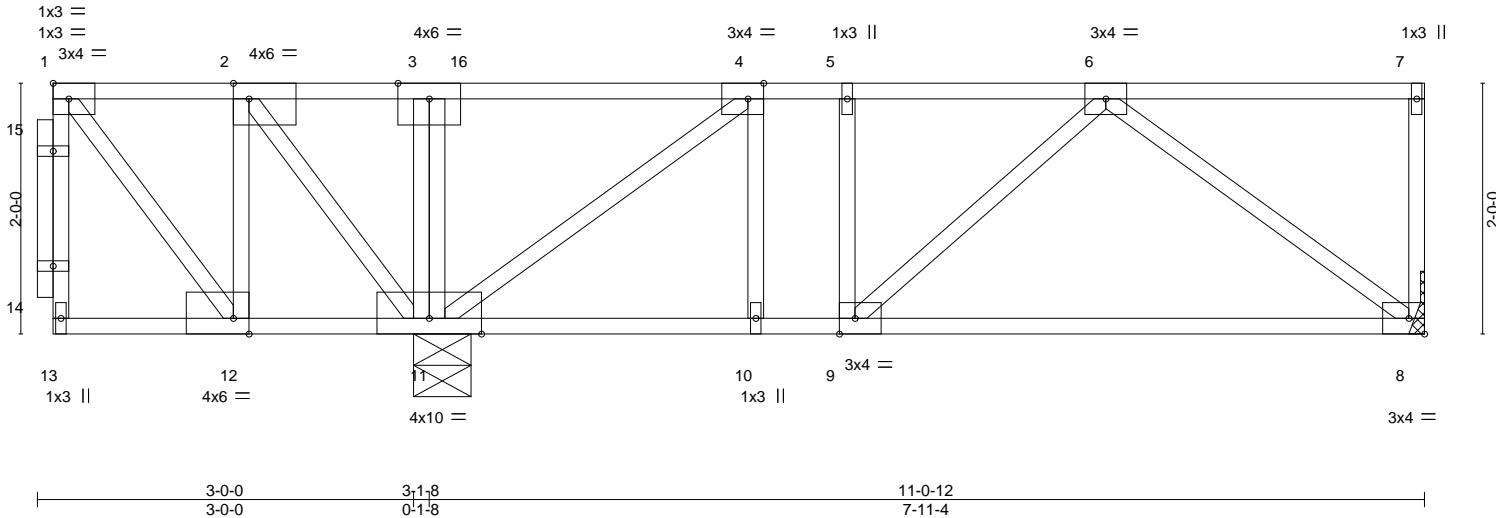


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [12:0-1-8,Edge]

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 0.77	Vert(LL)	-0.05	8-9	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.42	Vert(CT)	-0.13	8-9	>738	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.00	8	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 56 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 12-13.

REACTIONS. (size) 11=0-5-8, 8=Mechanical
Max Uplift 8=-43(LC 3)
Max Grav 11=3912(LC 1), 8=315(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=0/290, 2-3=0/1012, 3-4=0/1030, 4-5=-75/357, 5-6=-75/357
BOT CHORD 11-12=-290/0, 10-11=-357/75, 9-10=-357/75
WEBS 3-11=-2406/0, 6-8=-310/151, 4-11=-1066/0, 6-9=-393/0, 1-12=-476/0, 2-12=0/400,
2-11=-1149/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 8.
- 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 10-0-0 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

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)

Vert: 8-13=-10, 1-16=-295, 7-16=-110

- Concentrated Loads (lb)

Vert: 1=208 3=-2024

EXPIRES: Jun 30, 2026
November 20, 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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MiTek®
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Roseville, CA 95661
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Job 24-1180-E	Truss F402B	Truss Type FLOOR	Qty 1	Ply 3	4-Plex-A - Farmhouse-Roof	R85443154
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:18 2024 Page 1

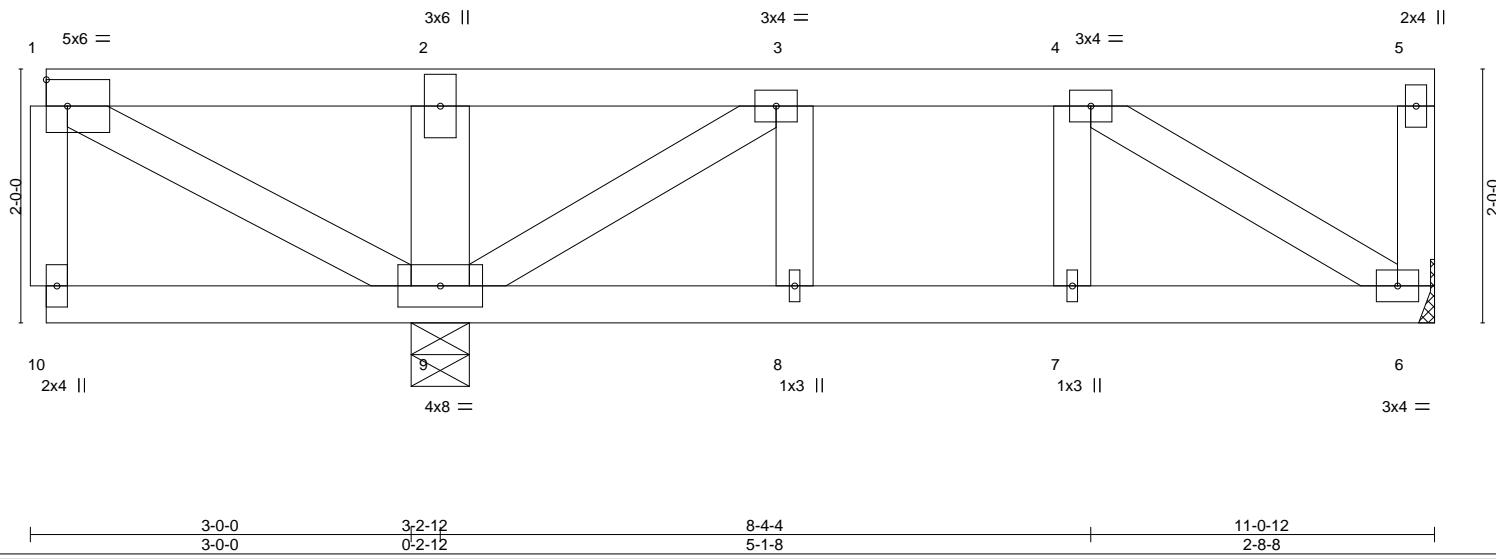
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2-8-8

2-5-0

1-10-12

Scale = 1:18.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.47	Vert(LL) -0.01 6-7 >999 480	MT20	185/144
TCDL 15.0	Lumber DOL 1.00	BC 0.21	Vert(CT) 0.02 8-9 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.22	Horz(CT) -0.00 6 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 133 lb	FT = 11%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std *Except*
2-9: 2x6 SPF 1650F 1.5E

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, Except: 10-0-0 oc bracing: 9-10.

REACTIONS. (size) 9=(0-5-8 + TBE6 Simpson Strong-Tie) (req. 0-5-10), 6=Mechanical
Max Uplift 6=-202(LC 3)
Max Grav 9=10730(LC 1), 6=245(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=0/1451, 2-3=0/1451, 3-4=21/632
BOT CHORD 8-9=-632/21, 7-8=-632/21, 6-7=-632/21
WEBS 2-9=9242/0, 4-6=0/798, 3-9=-1324/0, 4-7=-302/0, 3-8=0/333, 1-9=-1768/0

NOTES-

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced floor live loads have been considered for this design.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 6.
- 6) TBE6 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
- 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.
- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.
- 9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10--10, 1-2--488, 2-5--110
Concentrated Loads (lb)
Vert: 1-118 2-8260



EXPIRES: Jun 30, 2026
November 20, 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/TPI1 Quality Criteria](#) and [DSB-22](#) available from the Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

Job 24-1180-E	Truss F403	Truss Type Floor	Qty 40	Ply 1	4-Plex-A - Farmhouse-Roof	R85443155
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:19 2024 Page 1
ID:3mCmX7wpmmbw7h639aarmzZihj-oQcjH5WVpoqSa0hKhHzYHwtNlcIj0FvWcYPEEyHHWY

0-1-8

2-5-0

0-7-4

2-0-0

Scale = 1:14.9

3x4 =

1 1x3 ||

2

3 1x3 ||

4 3x4 =

5 1x3 ||

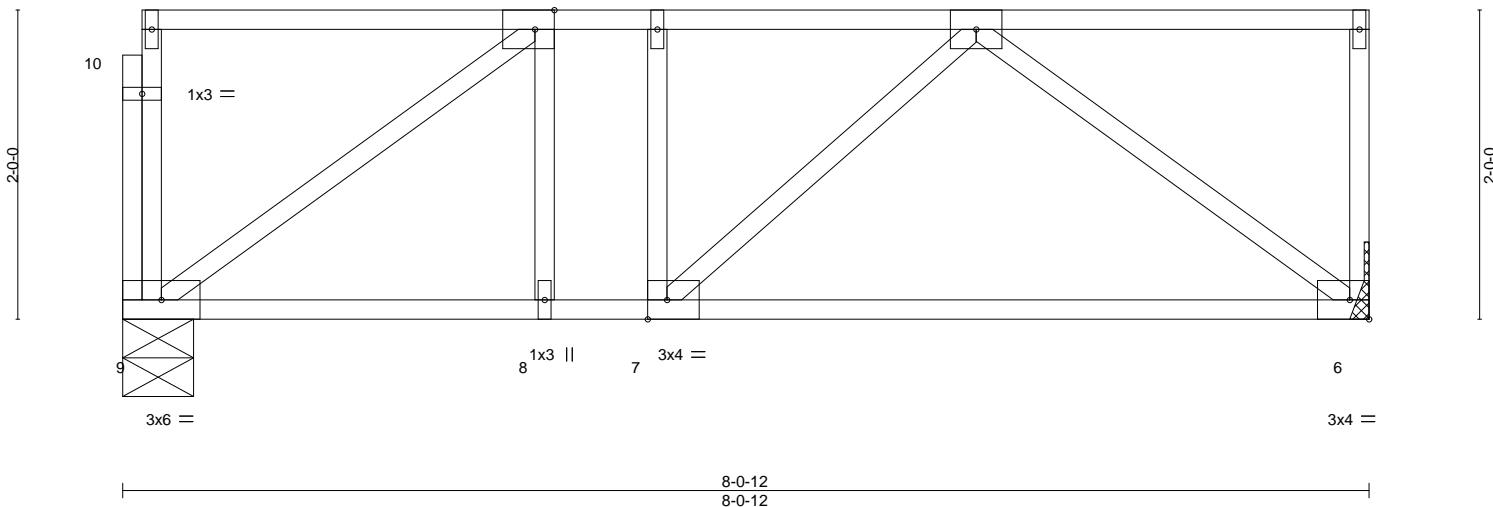


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [7:0-1-8,Edge]

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 0.35	Vert(LL)	-0.04	6-7	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.27	Vert(CT)	-0.08	6-7	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.01	6	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 38 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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) 9=0-5-8, 6=Mechanical
Max Grav 9=466(LC 1), 6=472(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-488/0, 3-4=-488/0
BOT CHORD 8-9=0/488, 7-8=0/488, 6-7=0/457
WEBS 4-6=-573/0, 2-9=-597/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) 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.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

EXPIRES: Jun 30, 2026
November 20,2024**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 24-1180-E	Truss F405	Truss Type GABLE	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443156
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:19 2024 Page 1
ID:3mCmX7wpmmbwy7h639aarmzZihj-oQcjH5WVpoqSa0hKhHzYHwxelgDj3lvWcYPEEYHHWY

0-1-8

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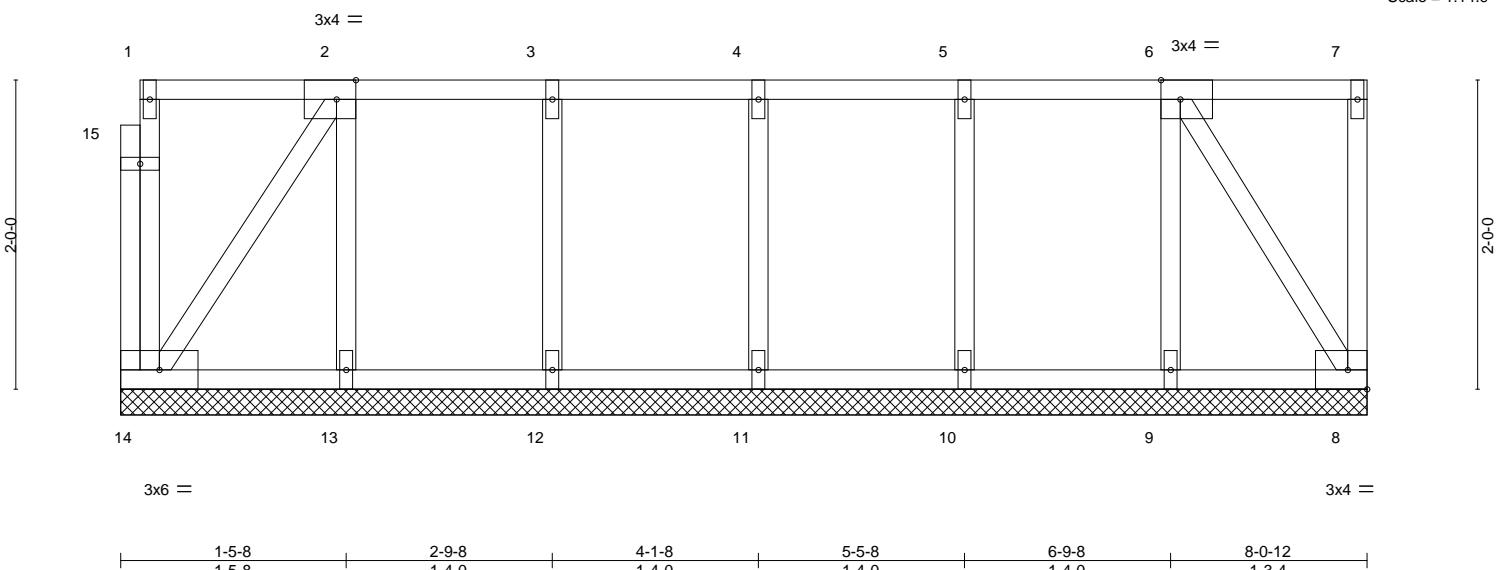


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [6:0-1-8,Edge]

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 0.08	Vert(LL)	n/a	-	n/a	999	
TCDL 15.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a	999	
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	8	n/a	n/a	
BCDL 5.0	Code IRC2018/TPI2014		Matrix-P					Weight: 39 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat)
OTHERS 2x4 HF/SPF Stud/Std(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. All bearings 8-0-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 13, 12, 11, 10, 9, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) All plates are 1x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Gable studs spaced at 1-4-0 oc.
- 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



EXPIRES: Jun 30, 2026
November 20,2024



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Job 24-1180-E	Truss F410	Truss Type FLOOR GIRDER	Qty 4	Ply 2	4-Plex-A - Farmhouse-Roof	R85443157
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Madera Comp Az, PHOENIX, AZ - 85043,

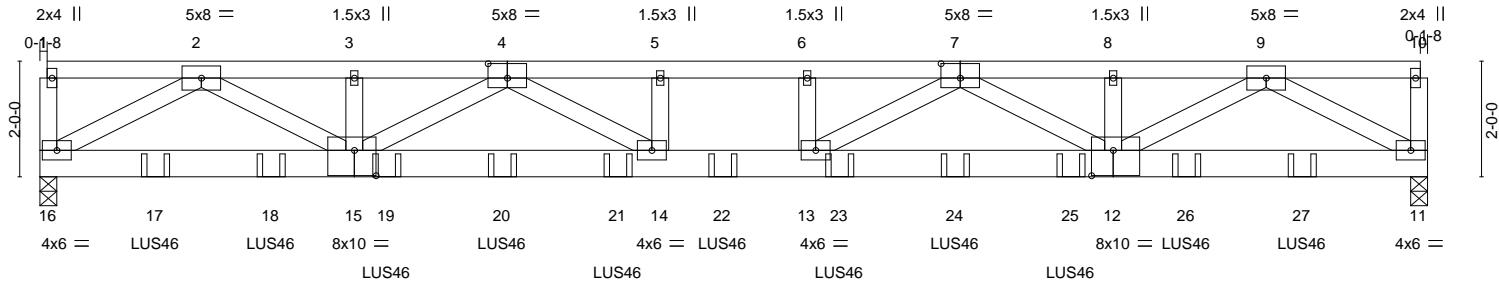
8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:20 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-GcA5VRX7a6yJCAGTHOpC4UTxO9pnSJM2IGHymgyHHWx

2-6-0

2-3-0

Scale = 1:39.8



24-0-0
24-0-0

Plate Offsets (X,Y)-- [4:0-4-0,0-3-0], [7:0-4-0,0-3-0], [12:0-4-8,0-5-4], [15:0-4-8,0-5-4]

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 0.79	Vert(LL)	-0.50	13-14	>573	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.89	Vert(CT)	-0.64	14	>442	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.85	Horz(CT)	0.08	11	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 226 lb	FT = 11%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
4-7: 2x4 SPF 1650F 1.5E

BOT CHORD 2x6 DF SS

WEBS 2x4 HF/SPF Stud/Std *Except*
9-12,2-15: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-2 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=3222(LC 1), 16=3689(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-9744/0, 3-4=-9744/0, 4-5=-12832/0, 5-6=-12832/0, 6-7=-12832/0, 7-8=-8636/0,

8-9=-8636/0

BOT CHORD 15-16=0/5224, 14-15=0/11651, 13-14=0/12832, 12-13=0/10998, 11-12=0/4645

WEBS 9-11=-5290/0, 2-16=-5938/0, 9-12=0/4683, 2-15=0/5305, 8-12=-283/0, 7-12=-2772/0,
4-15=-2237/0, 7-13=0/2468, 4-14=-331/1701, 6-13=-407/0

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-3-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced floor live loads have been considered for this design.

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.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) Use Simpson Strong-Tie LUS46 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-4 oc max. starting at 2-0-0 from the left end to 21-10-0 to connect truss(es) to back face of bottom chord.

7) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 11-16=-10, 1-10=-110



EXPIRES: Jun 30, 2026

November 20,2024

Continued on page 2

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 24-1180-E	Truss F410	Truss Type FLOOR GIRDER	Qty 4	Ply 2	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443157
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:20 2024 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 17=-462(B) 18=-462(B) 19=-462(B) 20=-462(B) 21=-462(B) 22=-314(B) 23=-288(B) 24=-288(B) 25=-288(B) 26=-288(B) 27=-288(B)



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 24-1180-E	Truss F410B	Truss Type FLOOR GIRDER	Qty 4	Ply 2	4-Plex-A - Farmhouse-Roof	R85443158
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:20 2024 Page 1

ID:3mCmX7wpmbwy7h639aarmzZihj-GcA5VRX7a6yJCAGTHOpC4UTyr9pzSJs2lGHymgyHHWx

2-6-0

2-3-0

Scale = 1:39.8

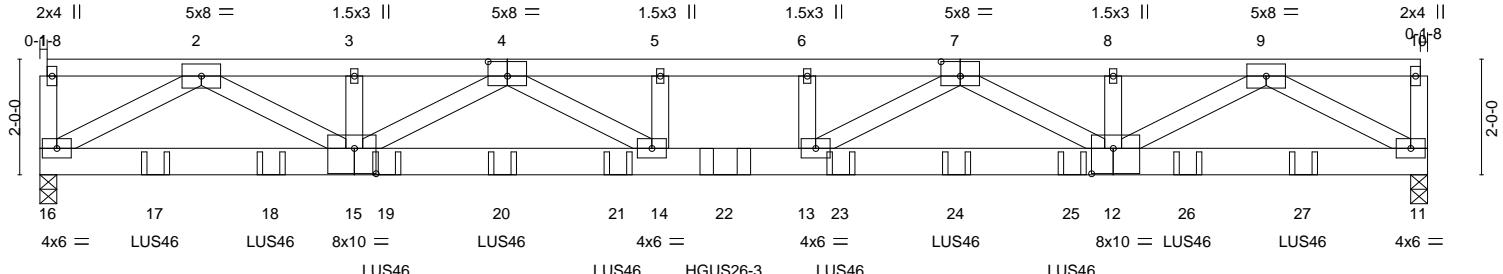


Plate Offsets (X,Y)-- [4:0-4-0,0-3-0], [7:0-4-0,0-3-0], [12:0-4-8,0-5-4], [15:0-4-8,0-5-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.76	Vert(LL)	-0.42	14	>675	480	MT20	185/144
TCDL 15.0	Lumber DOL 1.00	BC 0.88	Vert(CT)	-0.63	14	>450	360		
BCLL 0.0	Rep Stress Incr NO	WB 0.88	Horz(CT)	0.08	11	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S						Weight: 226 lb	FT = 11%

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
4-7: 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 DF SS
WEBS 2x4 HF/SPF Stud/Std *Except*
9-12,2-15: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-15 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=3185(LC 1), 16=3647(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3-9612/0, 3-4-9612/0, 4-5-12568/0, 5-6-12568/0, 6-7-12568/0, 7-8-8512/0,
8-9-8512/0
BOT CHORD 15-16=0/5157, 14-15=0/11450, 13-14=0/12568, 12-13=0/10804, 11-12=0/4583
WEBS 9-11=5218/0, 2-16=5861/0, 9-12=0/4611, 2-15=0/5228, 7-12=2689/0, 4-15=2157/0,
7-13=0/2560, 4-14=0/1929, 6-13=464/0, 5-14=310/57

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-3-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced floor live loads have been considered for this design.
- 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) Use Simpson Strong-Tie LUS46 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 3-10-4 oc max. starting at 2-0-0 from the left end to 21-10-4 to connect truss(es) to back face of bottom chord.
- 7) Use Simpson Strong-Tie HGUS26-3 (20-10d Girder, 6-10d Truss) or equivalent at 11-10-4 from the left end to connect truss(es) to back face of bottom chord.
- 8) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-16=-10, 1-10=-110

Continued on page 2

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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EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss F410B	Truss Type FLOOR GIRDER	Qty 4	Ply 2	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443158
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:20 2024 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 17=-463(B) 18=-463(B) 19=-463(B) 20=-463(B) 21=-463(B) 22=-235(B) 23=-288(B) 24=-288(B) 25=-288(B) 26=-288(B) 27=-288(B)



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 24-1180-E	Truss F411	Truss Type Floor	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443159
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:21 2024 Page 1

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0-1-8

H 2-5-0

1-1-8

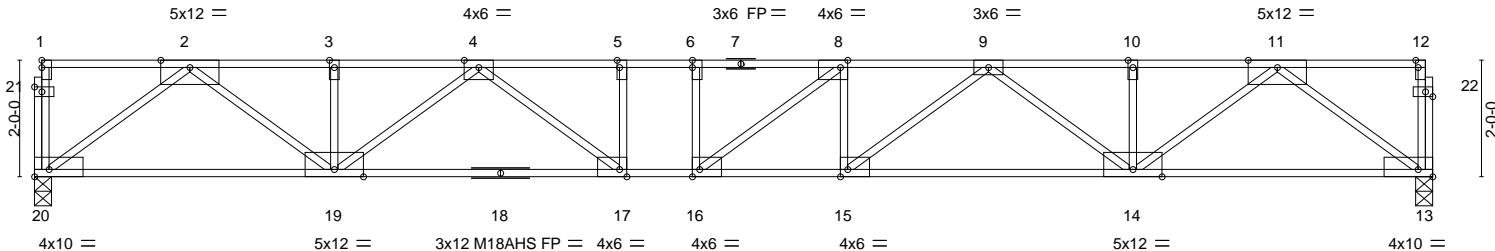
0-1-8
Scale = 1:39.524-0-0
24-0-0

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,0-0-0], [8:0-1-8,Edge], [12:0-1-8,Edge], [13:Edge,0-1-8], [15:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [20:Edge,0-1-8], [21:0-1-8,0-1-0], [22:0-1-8,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 2-0-0	TC 0.95	Vert(LL)	-0.36	15-16	>798	MT20	185/144
TCDL 15.0	Lumber DOL 1.00	BC 0.86	Vert(CT)	-0.53	15-16	>535	M18AHS	142/136
BCLL 0.0	Rep Stress Incr YES	WB 0.74	Horz(CT)	0.10	13	n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S					Weight: 104 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF 1650F 1.5E(flat) *Except*
13-18: 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 HF/SPF Stud/Std(flat) *Except*
11-14,2-19: 2x4 SPF No.2(flat)

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) 20=0-3-8, 13=0-3-8
Max Grav 20=1418(LC 1), 13=1418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3043/0, 3-4=-3043/0, 4-5=-4459/0, 5-6=-4459/0, 6-8=-4459/0, 8-9=-4443/0,
9-10=-3045/0, 10-11=-3045/0
BOT CHORD 19-20=0/1748, 17-19=0/3923, 16-17=0/4459, 15-16=0/4443, 14-15=0/3919, 13-14=0/1750
WEBS 11-13=-2170/0, 2-20=-2167/0, 11-14=0/1624, 2-19=0/1623, 10-14=-267/0, 3-19=-266/0,
9-14=-1096/0, 4-19=-1104/0, 9-15=0/657, 4-17=0/870, 8-15=-328/0, 5-17=-300/0,
8-16=-364/465

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 2x4 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 24-1180-E	Truss F412	Truss Type Floor	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443160
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:21 2024 Page 1

ID:3mCmX7wpmmbwY7h639aarmzZihj-kokTinYmLP4AqKrfr6KRdi07?Z9XBoIC_w1WI7yHHWW

0-1-8

H 2-5-0

Q-5-8

0-1-8
Scale 1:38 3

Scale = 1:38.3

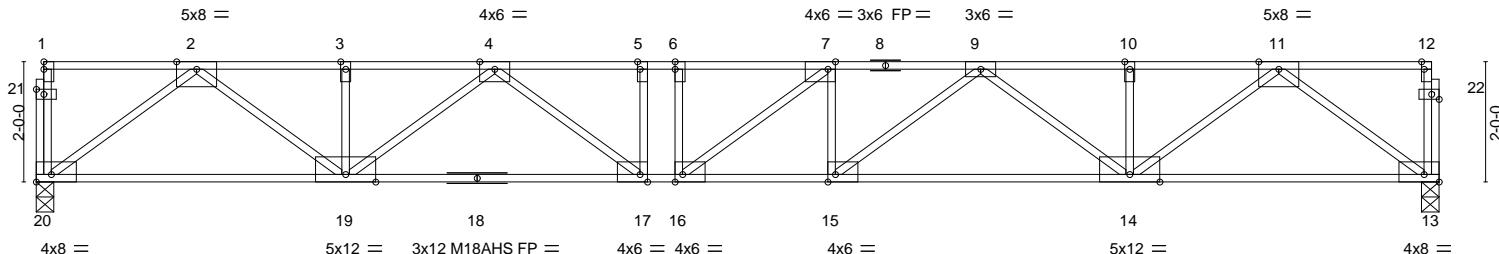


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,0-0-0], [7:0-1-8,Edge], [12:0-1-8,Edge], [13:Edge,0-1-8], [15:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [20:Edge,0-1-8], [21:0-1-8,0-1-0], [22:0-1-8,0-1-0]

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 0.73	Vert(LL)	-0.32	15-16	>873	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.86	Vert(CT)	-0.47	15-16	>586	360	M18AHS	142/136
BCLL 0.0	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.10	13	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 102 lb	FT = 20%F, 11%E

LUMBER-

LONBER

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF 1650F 1.5E(flat)
WEBS	2x4 HF/SPF Stud/Std(flat) *Except* 11-14,2-19: 2x4 SPF No.2(flat)

BRACING

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-7-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

Max Grav 20=1378(LC 1), 13=1378(LC 1)

FORCES
TOP 50

TOP CHORD	2-3=-293/7/0, 3-4=-293/7/0, 4-5=-4225/0, 5-6=-4225/0, 6-7=-4225/0, 7-8=-4223/0, 9-10=-2939/0, 10-11=-2939/0
BOT CHORD	19-20=0/1695, 17-19=0/3762, 16-17=0/4225, 15-16=0/4223, 14-15=0/3759, 13-14=0/1696
WEBS	11-13=-2103/0, 2-20=-2102/0, 11-14=0/1559, 2-19=0/1558, 10-14=-266/0, 3-19=-263/0, 9-14=-1028/0, 4-19=-1033/0, 9-15=0/582, 4-17=0/753, 7-15=-299/0, 7-16=-345/382

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 2x4 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.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" 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.



EXPIRES: Jun 30, 2026
November 20, 2024



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MI-7473 rev. 1/22/2023 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.tpiinst.org) and **BCSI Building Component Safety Information**, available from the Structural Building Component Association (www.sbccomponents.com).

The MiTek logo consists of the word "MiTek" in a bold, blue, sans-serif font. A registered trademark symbol (®) is located in the top right corner of the letter "k".

Job 24-1180-E	Truss F413	Truss Type Floor	Qty 40	Ply 1	4-Plex-A - Farmhouse-Roof	R85443161
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:22 2024 Page 1
ID:3mCmX7wpmmbwy7h639aarmzZihj-C?Hrw6ZO5jC1RUQrPprg9vYMWyUlwC4LDam3qZyHHWV

0-1-8

H || 2-5-0

0-5-8

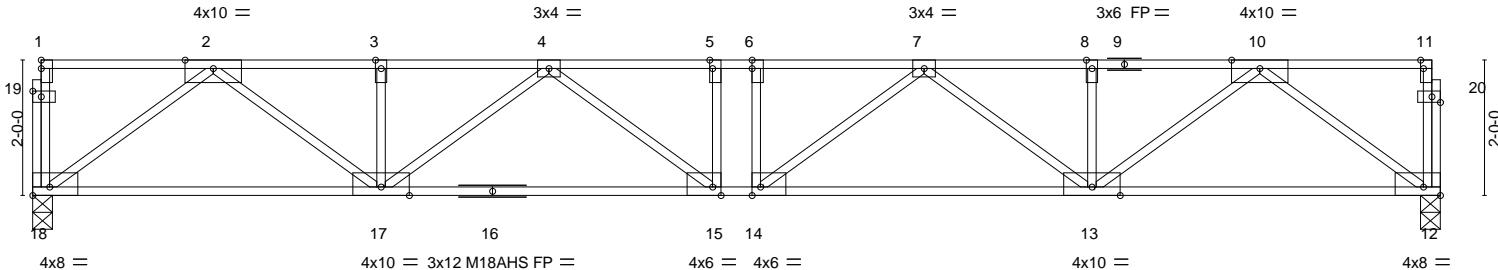
0-1-8
Scale = 1:34.020-9-8
20-9-8

Plate Offsets (X, Y)-- [5:0-1-8,Edge], [6:0-1-8,0-0-0], [11:0-1-8,Edge], [12:Edge,0-1-8], [14:0-1-8,Edge], [15:0-1-8,Edge], [18:Edge,0-1-8], [19:0-1-8,0-1-0], [20:0-1-8,0-1-0]

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 0.46	Vert(LL)	-0.20 15	>999	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.92	Vert(CT)	-0.31 15-17	>792	360	M18AHS	142/136
BCLL 0.0	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.08 12	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 91 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SPF No.2(flat)
 WEBS 2x4 HF/SPF Stud/Std(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 2-2-0 oc bracing.

REACTIONS. (size) 18=0-3-8, 12=0-3-8
 Max Grav 18=1226(LC 1), 12=1226(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2530/0, 3-4=-2530/0, 4-5=-3396/0, 5-6=-3396/0, 6-7=-3396/0, 7-8=-2530/0,
 8-10=-2530/0
 BOT CHORD 17-18=0/1490, 15-17=0/3152, 14-15=0/3396, 13-14=0/3152, 12-13=0/1490
 WEBS 10-12=1847/0, 2-18=1847/0, 10-13=0/1305, 2-17=0/1305, 8-13=-259/0, 3-17=-259/0,
 7-13=-780/0, 4-17=-780/0, 7-14=-64/522, 4-15=-64/522

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 2x4 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute (www.tpiinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbcsccomponents.com)

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 Roseville, CA 95661
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Job 24-1180-E	Truss F415	Truss Type Floor	Qty 16	Ply 1	4-Plex-A - Farmhouse-Roof	R85443162
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:22 2024 Page 1
ID:3mCmX7wpmmbwy7h639aarmzZihj-C?Hrw6ZO5jC1RUQrPprg9vYOqyZcwH1LDam3qZyHHWV

0-1-8

H | 2-5-0 |

| 0-7-8 |

0-1-8
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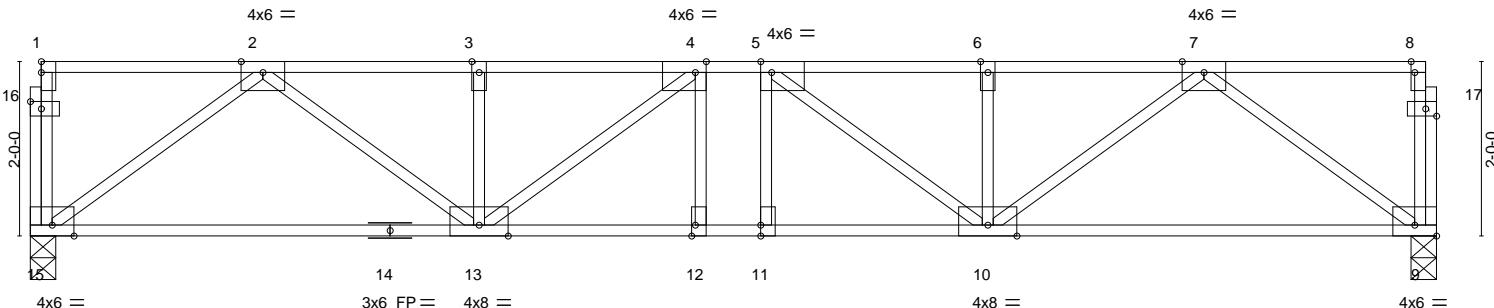


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [8:0-1-8,Edge], [9:Edge,0-1-8], [11:0-1-8,0-0-0], [12:0-1-8,Edge], [16:0-1-8,0-1-0], [17:0-1-8,0-1-0]

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 0.34	Vert(LL)	-0.08 12	>999	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.61	Vert(CT)	-0.12 12	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.04 9	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 73 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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, 9=0-3-8
Max Grav 15=946(LC 1), 9=946(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1784/0, 3-4=-1784/0, 4-5=-2030/0, 5-6=-1784/0, 6-7=-1784/0
BOT CHORD 13-15=0/1109, 12-13=0/2030, 11-12=0/2030, 10-11=0/2030, 9-10=0/1109
WEBS 7-9=-1374/0, 2-15=-1374/0, 7-10=0/846, 2-13=0/846, 6-10=-298/0, 3-13=-298/0,
5-10=-440/0, 4-13=-440/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) 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.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



EXPIRES: Jun 30, 2026
November 20,2024



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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Roseville, CA 95661
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Job 24-1180-E	Truss F416	Truss Type Floor	Qty 16	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443163
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:22 2024 Page 1

R85443163

ID:3mCmX7wpmmbwy7h639aarmzZihj-C?Hrw6ZO5jC1RUQrprrg9vYO9yhrwODLDam3qZyHHWV

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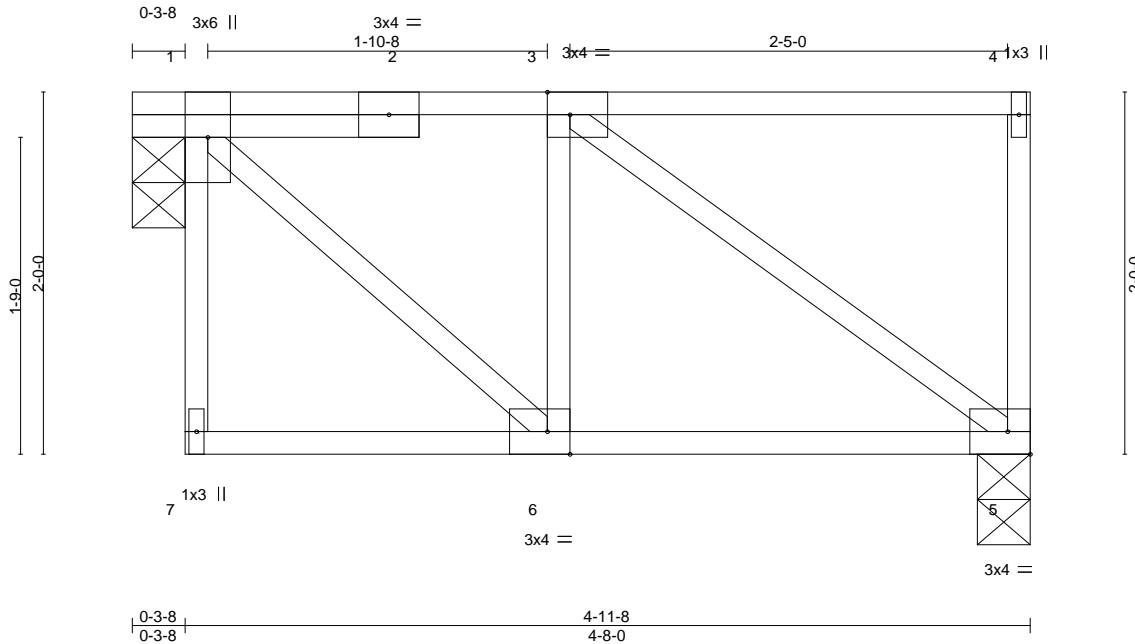


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [6:0-1-8,Edge]

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 0.32	Vert(LL)	-0.00	6	>999	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.08	Vert(CT)	-0.01	5-6	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-P						Weight: 25 lb	FT = 20%F, 11%E

LUMBER-

CHORDS:

TOP CHORD	2x4 SPF No.2(flat)
BOT CHORD	2x4 SPF No.2(flat)
WEBS	2x4 HF/SPF Stud/Std(flat)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

Max Grav 1=273(LC 1), 5=273(LC 1)

FORCES
MÉTRO

WEBS 3-5=-250/0, 1-6=0/272

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

2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d Strongbacks to be attached to walls at their outer ends or restrained by other means.

3) Gap between inside of top chord bearing



EXPIRES: Jun 30, 2026
November 20, 2024



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MII-7473 rev. 11/2023 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.sbccomponents.com).

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Roseville, CA 95661
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Job 24-1180-E	Truss F417	Truss Type Floor Girder	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443164
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:23 2024 Page 1

ID:3mCmX7wpmmbwY7h639aarmzZihj-gBrE7SZ0s1Ku3d?2zWMvi75Z7M0LfpUREWcN?yHHWU

0-3-8 3x6 || 3x4 =
 1-10-8 2 THA426 3 | 3x4 = 2-5-0 4 | 1x3 ||

Scale = 1:12.7

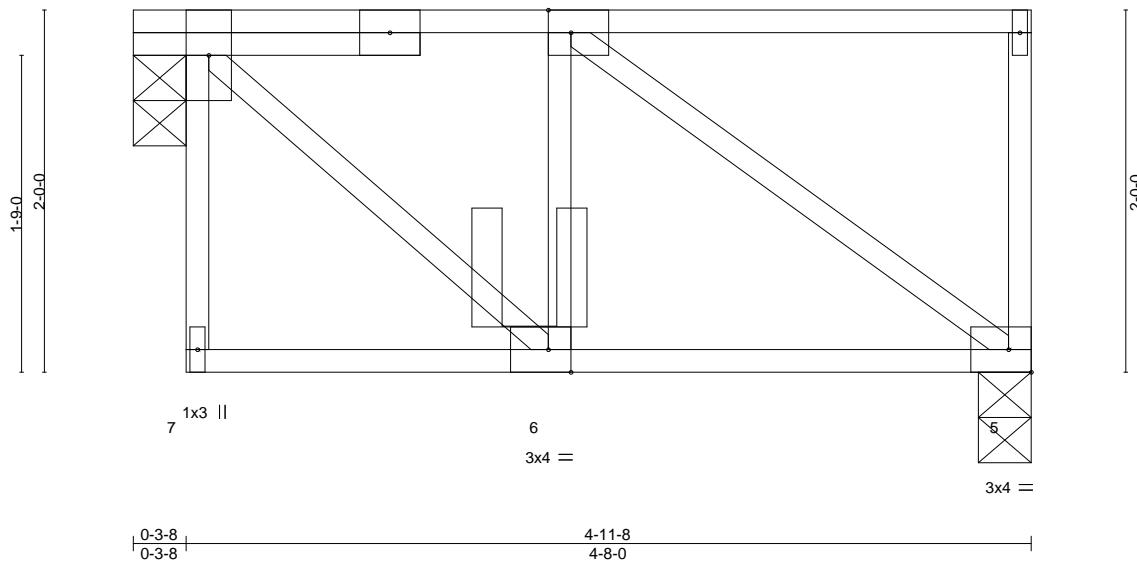


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [6:0-1-8,Edge]

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 0.37	Vert(LL)	-0.00	6	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.13	Vert(CT)	-0.01	5-6	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.31	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-P						Weight: 25 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SPF No.2(flat)
 WEBS 2x4 HF/SPF Stud/Std(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins,
 except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
 Max Grav 1=394(LC 1), 5=368(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-3--332/0
 BOT CHORD 5-6=0/329
 WEBS 3-5=-409/0, 3-6=-272/0, 1-6=0/444

NOTES-

- 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 10-0-0 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.
- Use Simpson Strong-Tie THA426 (Single Chord Girder) or equivalent at 2-2-4 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.
- 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 (plf)

Vert: 5-7=10, 1-4=110

Concentrated Loads (lb)

Vert: 3=217(F)



EXPIRES: Jun 30, 2026
 November 20, 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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

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 916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss F418	Truss Type Floor	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443165
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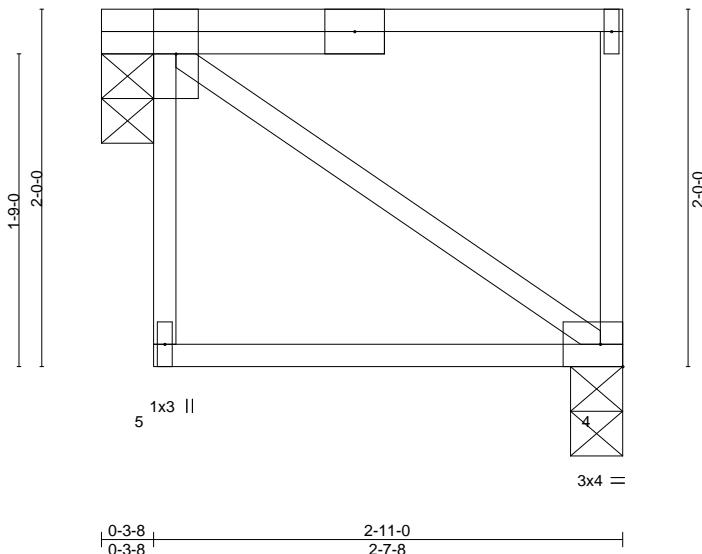
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:23 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-gBrE7SZ0s1Ku3d?2zWMvi75XbM2hftOUREWcN?yHHWU

0-3-8 3x6 || 3x4 =
 1 2 3 1x3 ||
 2-4-8

Scale = 1:12.9



0-3-8 2-11-0
 0-3-8 2-7-8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.47	Vert(LL)	0.00	5 ****	480	MT20	185/144
TCDL 15.0	Lumber DOL 1.00	BC 0.04	Vert(CT)	-0.01	4-5 >999	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-P					Weight: 15 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SPF No.2(flat)
 WEBS 2x4 HF/SPF Stud/Std(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-0 oc purlins,
 except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 4=0-3-8
 Max Grav 1=150(LC 1), 4=150(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 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 10-0-0 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.



EXPIRES: Jun 30, 2026
 November 20,2024

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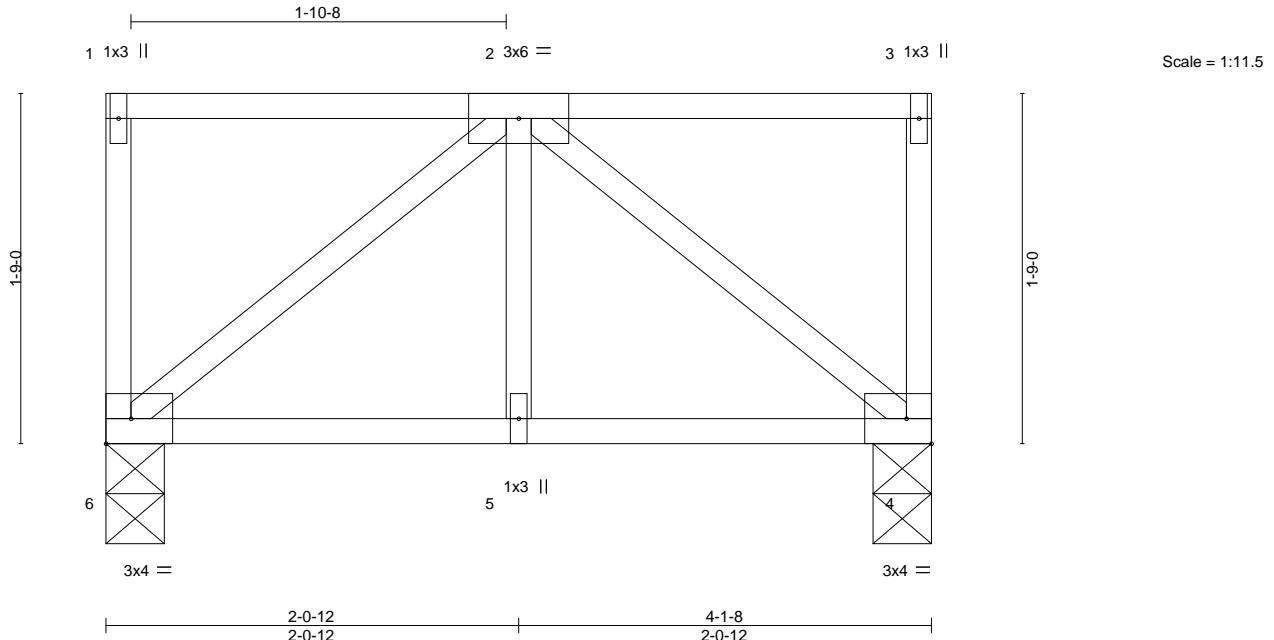
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Job 24-1180-E	Truss F419	Truss Type Floor Girder	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443166
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:23 2024 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.26	Vert(LL) -0.00 in (loc) 5 >999 L/d 480	MT20	185/144
TCDL 15.0	Lumber DOL 1.00	BC 0.10	Vert(CT) -0.00 5 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.11	Horz(CT) 0.00 4 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-P		Weight: 20 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=0-3-8
Max Grav 6=530(LC 1), 4=651(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-6--292/0, 3-4--413/0
BOT CHORD 5-6=0/282, 4-5=0/282
WEBS 2-6--363/0, 2-4--363/0

NOTES-

- 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 10-0-0 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

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)

Vert: 4-6=10, 1-3=110

Concentrated Loads (lb)

Vert: 1=208 3=330 2=163



EXPIRES: Jun 30, 2026
November 20,2024

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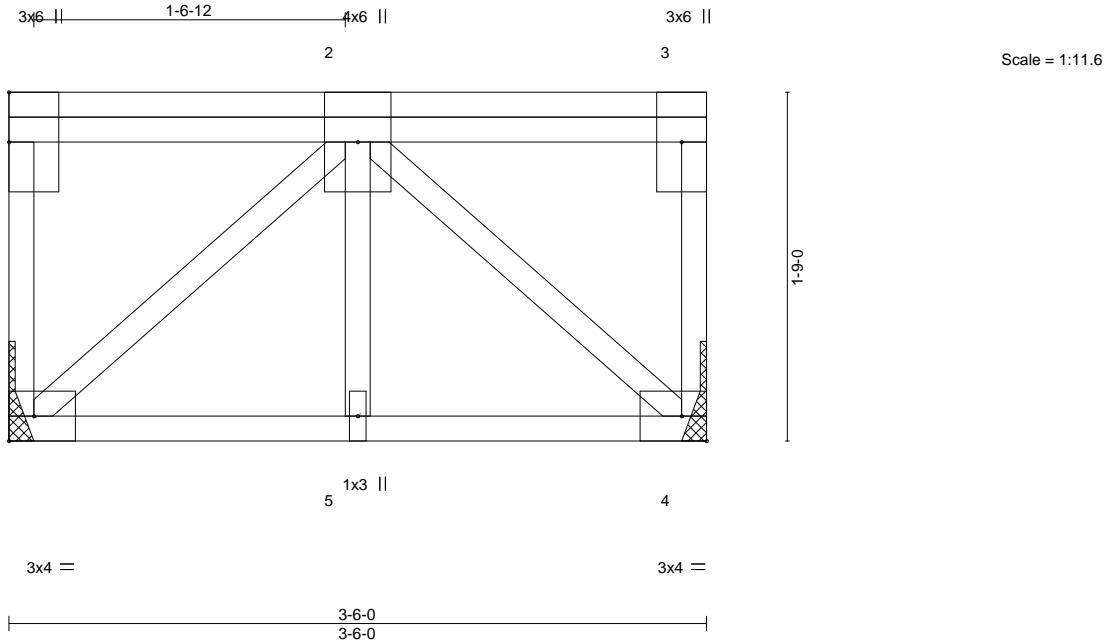
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Job 24-1180-E	Truss F420	Truss Type Floor Girder	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443167
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8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:24 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzzihj-8NPcKoaeKTlhZEWEt8FKeoEmMNOJGeguFAvSyHHWT



LOADING (psf) TCLL 40.0 TCDL 15.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.09 BC 0.08 WB 0.09 Matrix-P	DEFL. Vert(LL) -0.00 5 >999 480 Vert(CT) -0.00 5 >999 360 Horz(CT) 0.00 4 n/a n/a	PLATES MT20	GRIP 185/144
				Weight: 22 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat)

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) 6=Mechanical, 4=Mechanical
Max Grav 6=327(LC 1), 4=327(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-6=-302/0, 2-4=-302/0

NOTES-

- 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 10-0-0 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.
- 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 (plf)

Vert: 4-6=10, 1-3=172(F=-62)

Concentrated Loads (lb)

Vert: 2=-40



EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss F421	Truss Type GABLE	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443168
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8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:24 2024 Page 1

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018

Scale = 1:20.4

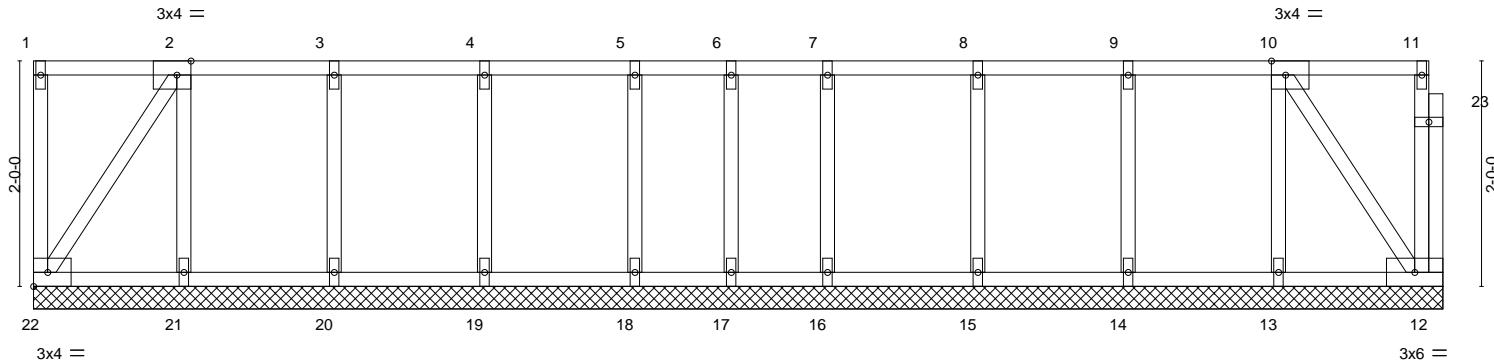


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [10:0-1-8,Edge]

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 0.08	Vert(LL)	n/a	-	n/a	999	
TCDL 15.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999	
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	12	n/a	n/a	
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 58 lb FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SPF No.2(flat)
 WEBS 2x4 HF/SPF Stud/Std(flat)
 OTHERS 2x4 HF/SPF Stud/Std(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. All bearings 12-6-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 17, 13, 14, 15, 16, 21, 20, 19, 18, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.**NOTES-**

- 1) All plates are 1x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Gable studs spaced at 1-4-0 oc.
- 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



EXPIRES: Jun 30, 2026
 November 20,2024

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 Roseville, CA 95661
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Job 24-1180-E	Truss F422	Truss Type Floor	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443169
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8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:25 2024 Page 1

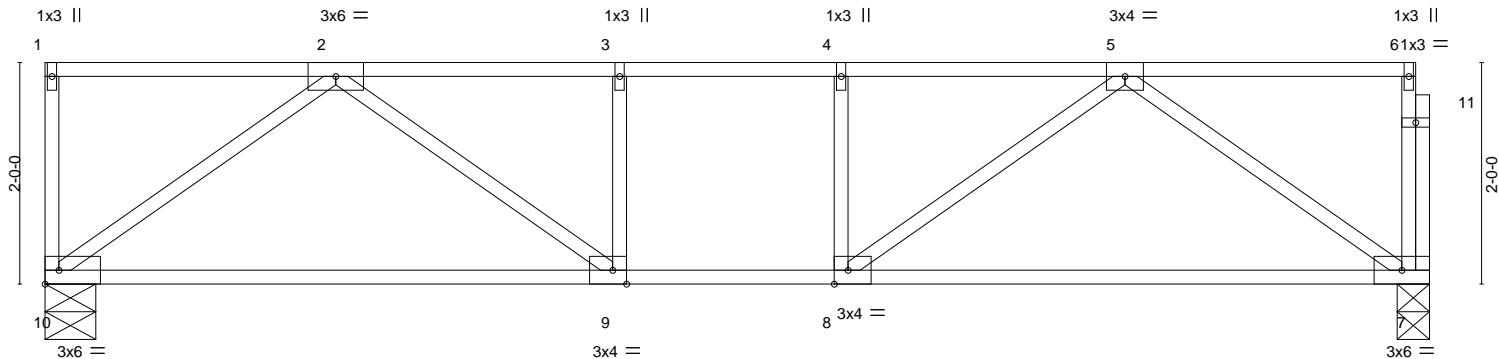
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2-6-0

1-10-8

0 1/8

Scale = 1:20.8



12-6-0
12-6-0

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

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 0.41	Vert(LL)	-0.14	7-8	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.54	Vert(CT)	-0.21	7-8	>689	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.02	7	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 53 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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) 7=0-3-8, 10=0-5-8
Max Grav 7=732(LC 1), 10=739(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1213/0, 3-4=-1213/0, 4-5=-1213/0
BOT CHORD 9-10=0/828, 8-9=0/1213, 7-8=0/842
WEBS 5-7=-1031/0, 2-10=-1027/0, 5-8=0/524, 2-9=0/537

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) 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.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



EXPIRES: Jun 30, 2026
November 20, 2024

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Job 24-1180-E	Truss F423	Truss Type Floor	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443170
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:25 2024 Page 1

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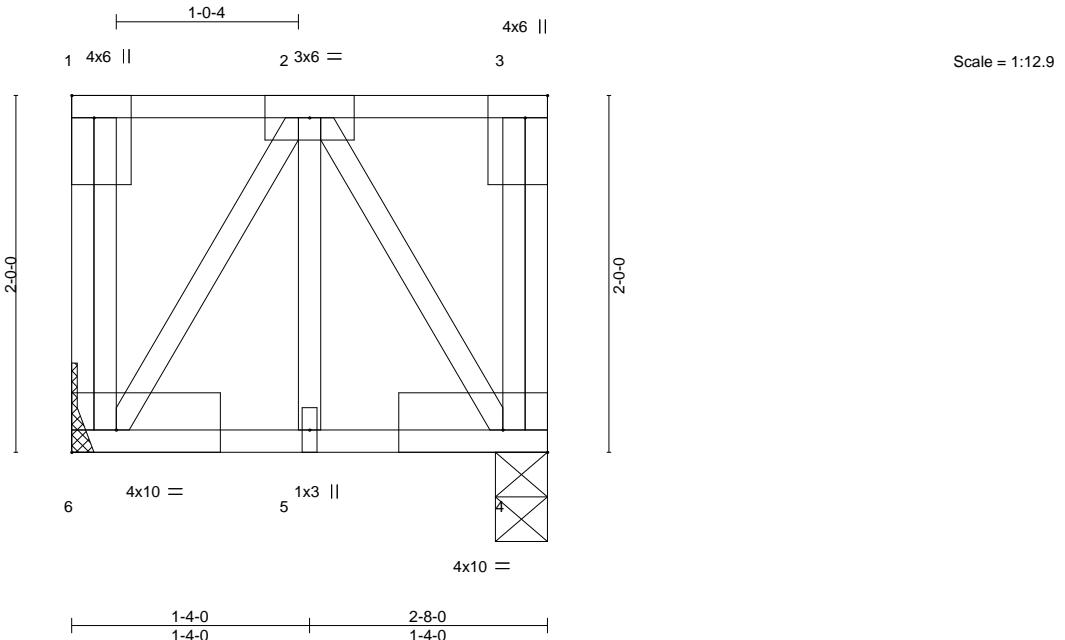


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [4:Edge,0-1-8], [6:Edge,0-1-8]

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 0.38	Vert(LL)	-0.00	5	>999	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.13	Vert(CT)	-0.00	5	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.00	4	n/a	n/a		
BCDL 5.0	Code	IRC2018/TPI2014	Matrix-P						Weight: 21 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins,
except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=0-3-8

Max Grav 6=2111(LC 1), 4=717(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-6=-1623/0
BOT CHORD 5-6=0/284, 4-5=0/284
WEBS 2-6=-525/0, 2-4=-525/0

NOTES-

- 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.
- Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

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

Uniform Loads (plf)

Vert: 4-6=-92, 1-3=-501

Concentrated Loads (lb)

Vert: 1=-1394

- Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 4-6=-57, 1-3=-386

Concentrated Loads (lb)

Vert: 1=-791



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November 20,2024

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Job 24-1180-E	Truss F424	Truss Type Floor Girder	Qty 6	Ply 2	4-Plex-A - Farmhouse-Roof	R85443171
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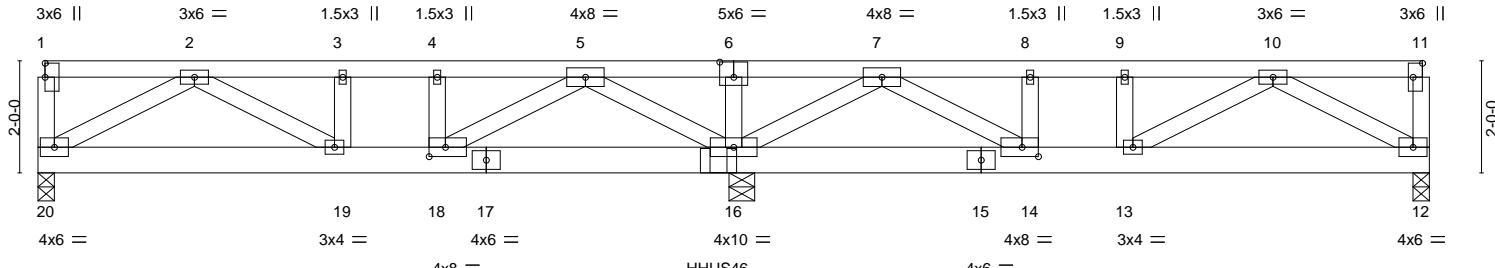
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2-6-0

1-4-12

1-4-12

Scale = 1:41.1



12-5-0

12-5-0

12-6-12

0-1-12

24-10-0

12-3-4

Plate Offsets (X,Y)-- [6:0-3-0,0-3-4], [11:Edge,0-2-0], [14:0-3-8,0-2-0], [18:0-3-8,0-2-0]

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 0.60	Vert(LL)	-0.04	19	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.38	Vert(CT)	-0.10	19	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.89	Horz(CT)	0.02	16	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 218 lb	FT = 11%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 12=0-3-8, 16=0-5-8, 20=0-3-8
Max Grav 12=522(LC 4), 16=5598(LC 1), 20=2599(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-20=-500/0, 2-3=-4164/0, 3-4=-4164/0, 4-5=-4164/0, 5-6=0/2083, 6-7=0/2083,
7-8=-548/343, 8-9=-548/343, 9-10=-548/343
BOT CHORD 19-20=0/3216, 18-19=0/4164, 16-18=0/1962, 14-16=-915/0, 13-14=-343/548,
12-13=-64/582
WEBS 6-16=-830/0, 2-20=-3616/0, 5-16=-4747/0, 2-19=0/1112, 5-18=0/2584, 3-19=-721/0,
4-18=-1029/0, 10-12=-642/92, 7-16=-1456/0, 10-13=-328/0, 7-14=0/1190, 8-14=-406/0

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131" x 3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced floor live loads have been considered for this design.
- 4) The Fabrication Tolerance at joint 17 = 11%, joint 15 = 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.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.
- 8) Use Simpson Strong-Tie HHUS46 (14-10d Girder, 6-10d Truss) or equivalent at 12-1-12 from the left end to connect truss(es) to back face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 16-20=-45(B=-35), 12-16=-10, 1-6=-430, 6-11=-110

Concentrated Loads (lb)

Vert: 16=-1316(B)



EXPIRES: Jun 30, 2026

November 20, 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/TPI1 Quality Criteria and DSB-22** available from the Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss F424A	Truss Type FLOOR GIRDER	Qty 2	Ply 3	4-Plex-A - Farmhouse-Roof	R85443172
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Madera Comp Az, PHOENIX, AZ - 85043,

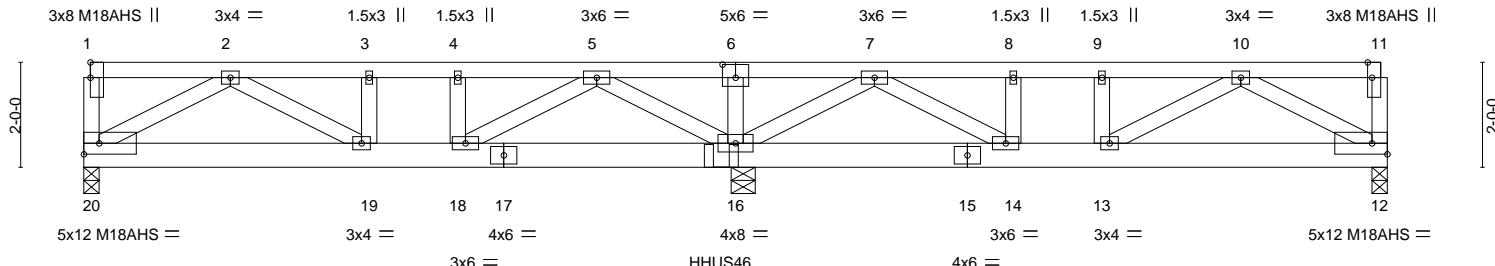
8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:26 2024 Page 1
ID:3mCmX7wpmmbwy7h639aarmzZihj-5mXMIUcu9yTw5jdefvcKlj4aa0Vs5sx7CkHkKyHHWR

2-6-0

1-4-12

1-4-12

Scale = 1:43.9



12-5-0

12-6-12

24-10-0

12-5-0

0-1-12

12-3-4

Plate Offsets (X,Y)-- [6:0-3-0,0-3-0], [11:0-3-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.36	Vert(LL)	-0.03	19	>999	480	MT20	185/144
TCDL 15.0	Lumber DOL 1.00	BC 0.23	Vert(CT)	-0.07	19	>999	360	M18AHS	142/136
BCLL 0.0	Rep Stress Incr YES	WB 0.59	Horz(CT)	0.01	16	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S						Weight: 326 lb	FT = 11%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Stud

BRACING-

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

REACTIONS. (size) 12=(0-3-8 + TBE4 Simpson Strong-Tie) (req. 0-3-11), 16=0-5-8, 20=0-3-8
Max Grav 12=7037(LC 7), 16=5599(LC 1), 20=2598(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-20=-500/0, 11-12=-6639/0, 2-3=-4163/0, 3-4=-4163/0, 4-5=-4163/0, 5-6=0/2086,
6-7=0/2086, 7-8=-546/345, 8-9=-546/345, 9-10=-546/345

BOT CHORD 19-20=0/3216, 18-19=0/4163, 16-18=0/1960, 14-16=-916/0, 13-14=-345/546,

12-13=-56/590

WEBS 6-16=-830/0, 2-20=-3615/0, 5-16=-4748/0, 2-19=0/1111, 5-18=0/2585, 3-19=-721/0,
4-18=-1029/0, 10-12=-660/75, 7-16=-1455/0, 10-13=-339/0, 7-14=0/1190, 8-14=-410/0

NOTES-

- 3-ply truss to be connected together with 10d (0.131" x 3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 17 = 11%, joint 15 = 11%
- TBE4 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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 HHUS46 (14-10d Girder, 6-10d Truss) or equivalent at 12-1-12 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S)

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

Continued on page 2

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

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



EXPIRES: Jun 30, 2026

November 20, 2024

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Job 24-1180-E	Truss F424A	Truss Type FLOOR GIRDER	Qty 2	Ply 3	4-Plex-A - Farmhouse-Roof	R85443172
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:26 2024 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 16-20=-45(B=-35), 12-16=-10, 1-6=-430, 6-11=-110

Concentrated Loads (lb)

Vert: 11=-6532 16=-1316(B)



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 24-1180-E	Truss F425	Truss Type Floor	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443173
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:27 2024 Page 1
ID:3mCmX7wpmmbw7h639aarmzZlhj-Zy5kzqcWwFrKYFlpCMRszGFFzHTbWP4MsUqWmyHHWQ

0-1-8

H 2-5-0

2-0-0 0-4-8 2-0-0

Scale = 1:41.0

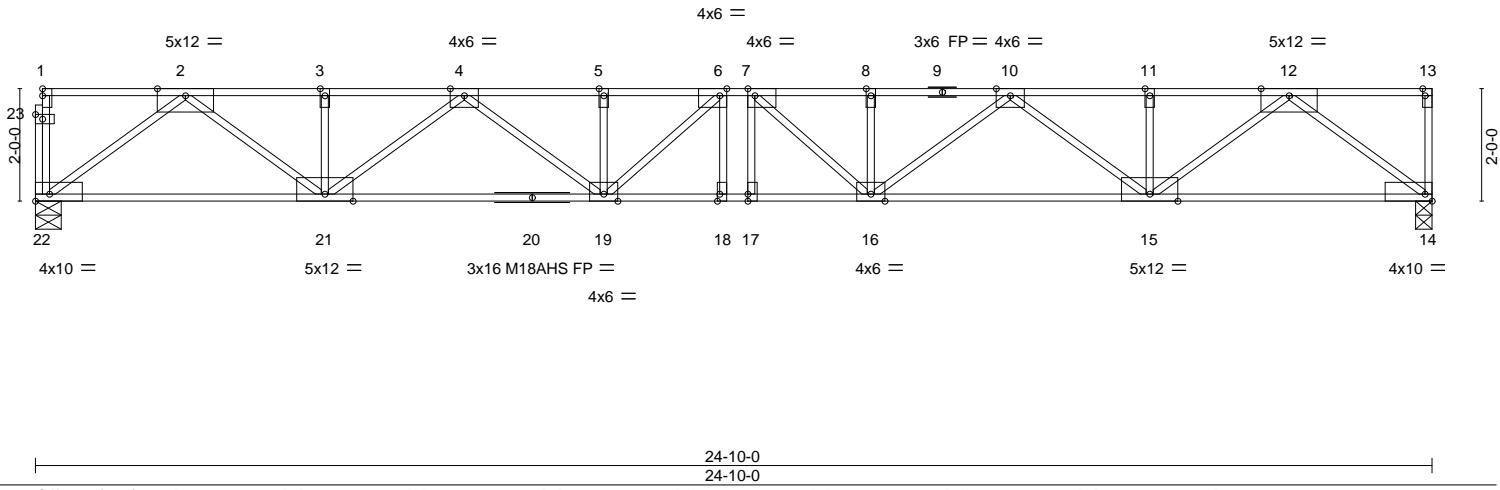


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [13:0-1-8,Edge], [14:Edge,0-1-8], [17:0-1-8,0-0-0], [18:0-1-8,Edge], [22:Edge,0-1-8], [23:0-1-8,0-1-0]

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 0.36	Vert(LL)	-0.32	18	>924	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.57	Vert(CT)	-0.48	18	>616	360	M18AHS	142/136
BCLL 0.0	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.10	14	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 109 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E(flat)
BOT CHORD 2x4 SPF 2100F 1.8E(flat)
WEBS 2x4 HF/SPF Stud/Std(flat) *Except*
12-15,2-21: 2x4 SPF No.2(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) 22=0-5-8, 14=0-3-8

Max Grav 22=1472(LC 1), 14=1479(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3190/0, 3-4=-3190/0, 4-5=-4710/0, 5-6=-4710/0, 6-7=-4864/0, 7-8=-4700/0,
8-10=-4700/0, 10-11=-3160/0, 11-12=-3160/0
BOT CHORD 21-22=0/1823, 19-21=0/4134, 18-19=0/4864, 17-18=0/4864, 16-17=0/4864, 15-16=0/4115,
14-15=0/1784
WEBS 12-14=-2237/0, 2-22=-2260/0, 12-15=0/1725, 2-21=0/1714, 11-15=-263/0, 3-21=-263/0,
10-15=-1197/0, 4-21=-1184/0, 10-16=0/734, 4-19=0/722, 8-16=-285/0, 5-19=-286/0,
7-16=-515/200, 6-19=-507/208

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 2x4 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

EXPIRES: Jun 30, 2026
November 20,2024**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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400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss F426	Truss Type Floor	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443174
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:27 2024 Page 1

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2-5-0

1-8-0

Scale = 1:36.5

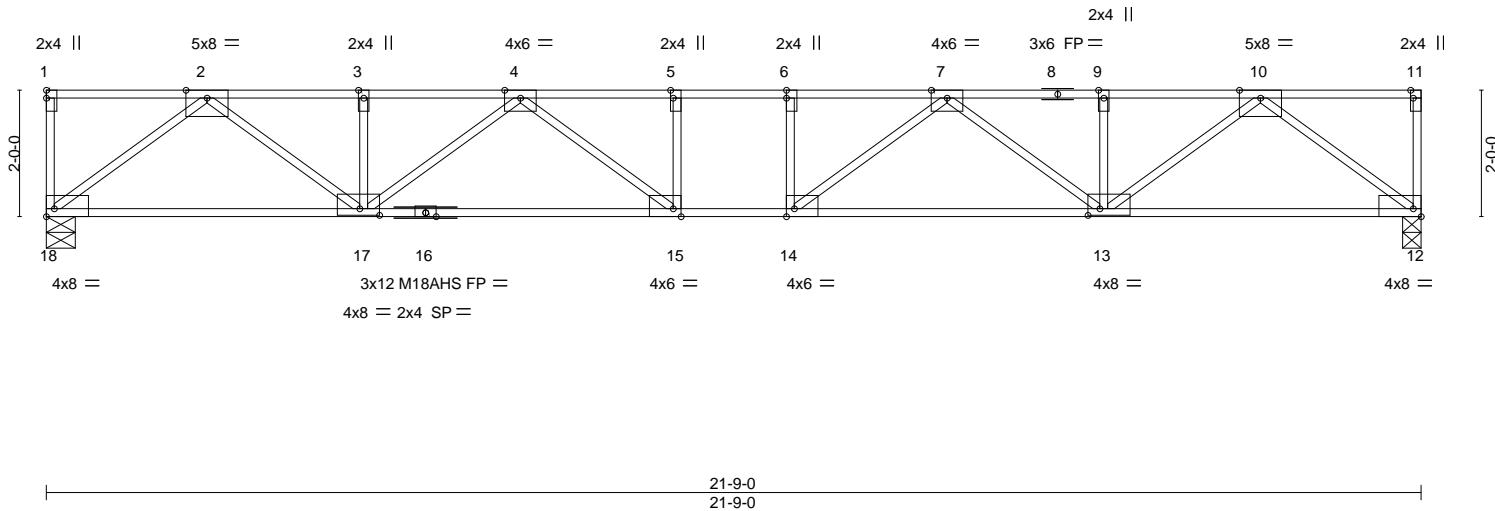


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,0-0-0], [11:0-1-8,Edge], [12:Edge,0-1-8], [13:0-2-4,0-1-4], [14:0-1-8,Edge], [15:0-1-8,Edge], [17:0-3-12,0-1-4], [18:Edge,0-1-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.84	Vert(LL)	-0.33 15-17	>791	480
TCDL 15.0	Lumber DOL	1.00	BC 0.99	Vert(CT)	-0.46 15-17	>564	360
BCLL 0.0	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.09 12	n/a	n/a
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S				
PLATES	GRIP						
MT20	185/144						
M18AHS	142/136						
	Weight: 90 lb						FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SPF No.2(flat) *Except*
 12-16: 2x4 SPF 1650F 1.5E(flat)
 WEBS 2x4 HF/SPF Stud/Std(flat)

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, Except:
 2-2-0 oc bracing: 15-17.

REACTIONS. (size) 12=0-3-8, 18=0-5-8
 Max Grav 12=1297(LC 1), 18=1297(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2681/0, 3-4=-2681/0, 4-5=-3737/0, 5-6=-3737/0, 6-7=-3737/0, 7-9=-2681/0,
 9-10=-2681/0
 BOT CHORD 17-18=0/1545, 15-17=0/3398, 14-15=0/3737, 13-14=0/3398, 12-13=0/1546
 WEBS 10-12=-1938/0, 2-18=-1938/0, 10-13=0/1424, 2-17=0/1424, 9-13=-259/0, 3-17=-259/0,
 7-13=-899/0, 4-17=-899/0, 7-14=0/698, 4-15=0/697, 5-15=-297/0, 6-14=-297/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) The Fabrication Tolerance at joint 16 = 11%
- 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



EXPIRES: Jun 30, 2026
 November 20, 2024

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MiTek®
 400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss F427	Truss Type Floor	Qty 24	Ply 1	4-Plex-A - Farmhouse-Roof	R85443175
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Madera Comp Az, PHOENIX, AZ - 85043,

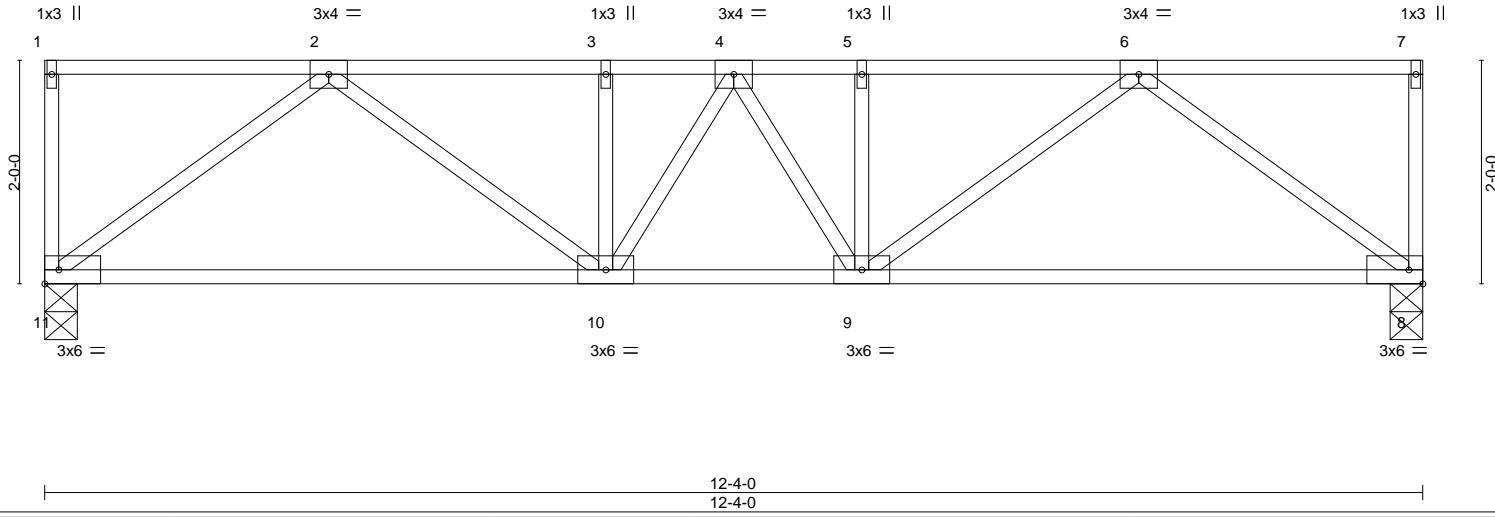
8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:27 2024 Page 1

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2-5-0

1-1-0 1-1-0

Scale = 1:20.6



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 0.34	Vert(LL)	-0.03 9-10	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.40	Vert(CT)	-0.09 10-11	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.02 8	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 55 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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) 8=0-3-8, 11=0-3-8
Max Grav 8=732(LC 1), 11=732(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=1178/0, 3-4=1178/0, 4-5=1178/0, 5-6=1178/0
BOT CHORD 10-11=0/799, 9-10=0/1198, 8-9=0/799
WEBS 6-8=1002/0, 2-11=1002/0, 6-9=0/475, 2-10=0/475

NOTES-

- 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 10-0-0 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.



EXPIRES: Jun 30, 2026
November 20, 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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Roseville, CA 95661
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Job 24-1180-E	Truss F428	Truss Type Floor	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443176
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:28 2024 Page 1

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2-5-0

1-5-8

Scale = 1:14.0

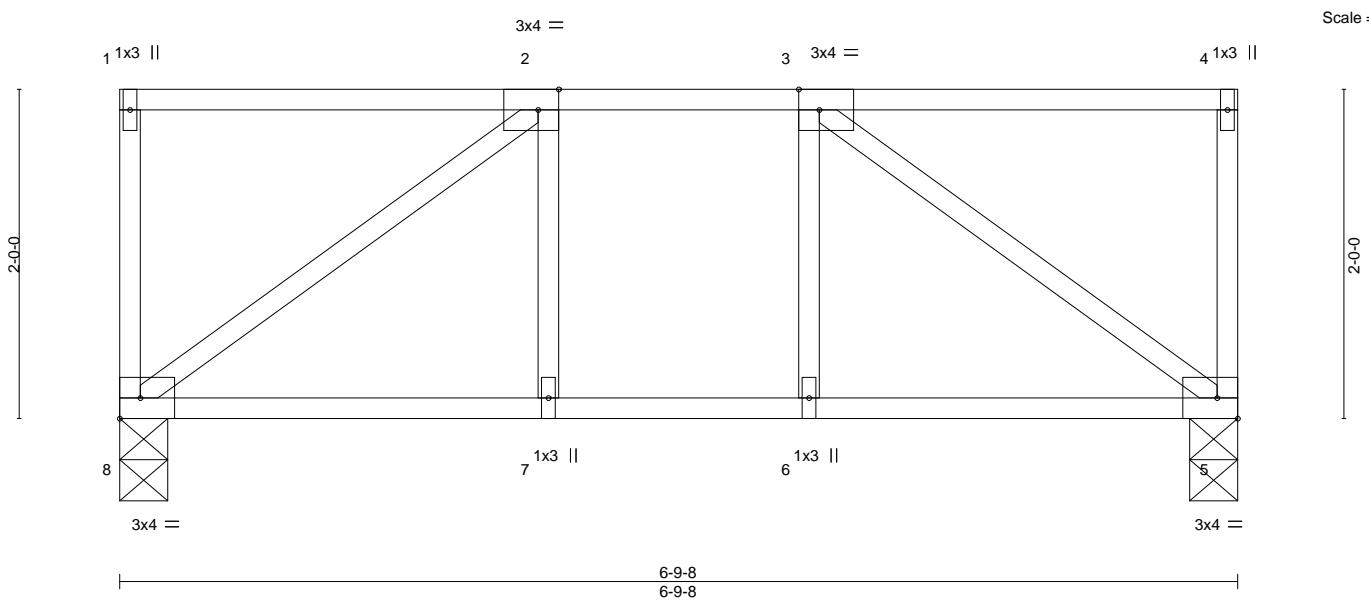


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge]

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 0.39	Vert(LL)	-0.03	7-8	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.24	Vert(CT)	-0.04	7-8	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 31 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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) 5=0-3-8, 8=0-3-8
Max Grav 5=400(LC 1), 8=400(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3--367/0

BOT CHORD 7-8=0/367, 6-7=0/367, 5-6=0/367

WEBS 3-5=-456/0, 2-8=-456/0

NOTES-

- 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 10-0-0 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.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

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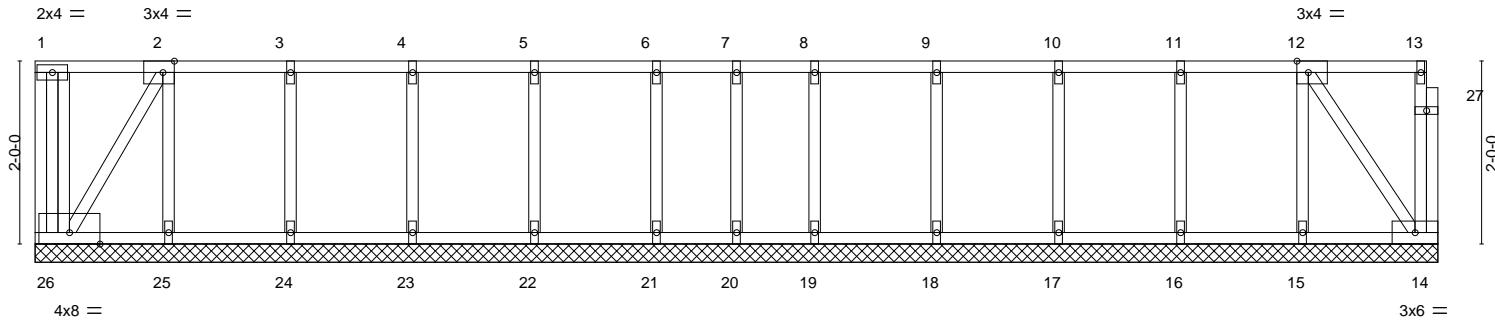
Job 24-1180-E	Truss F430	Truss Type GABLE	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443177
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:28 2024 Page 1
ID:3mCmX7wpmmbwy7h639aarmzZlhj-19f7AAad9hZzB9P!l?14y4PAoUMNlK8yEbWDN2DyHHWP

01-8

Scale = 1:25.2



1-5-8	2-9-8	4-1-8	5-5-8	6-9-8	7-8-0	8-6-4	9-10-4	11-2-4	12-6-4	13-10-4	15-4-0
1-5-8	1-4-0	1-4-0	1-4-0	1-4-0	0-10-8	0-10-4	1-4-0	1-4-0	1-4-0	1-4-0	1-5-12

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

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 0.08	Vert(LL)	n/a	-	n/a	999	
TCDL 15.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999	
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	14	n/a	n/a	
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 72 lb FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SPF No.2(flat)
 WEBS 2x4 HF/SPF Stud/Std(flat)
 OTHERS 2x4 HF/SPF Stud/Std(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. All bearings 15-4-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 20, 15, 16, 17, 18, 19, 25, 24, 23, 22, 21, 26

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.**NOTES-**

- 1) All plates are 1x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Gable studs spaced at 1-4-0 oc.
- 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

EXPIRES: Jun 30, 2026
November 20,2024**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/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 24-1180-E	Truss F431	Truss Type Floor	Qty 48	Ply 1	4-Plex-A - Farmhouse-Roof	R85443178
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:29 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-VLDVOWenSt52nYSCJnTJyOLbxny13TCNqAzxafyHHWO

2-5-0 | 2-0-0 | 1-1-0 | 2-0-0 | 0-1-8

Scale = 1:26.1

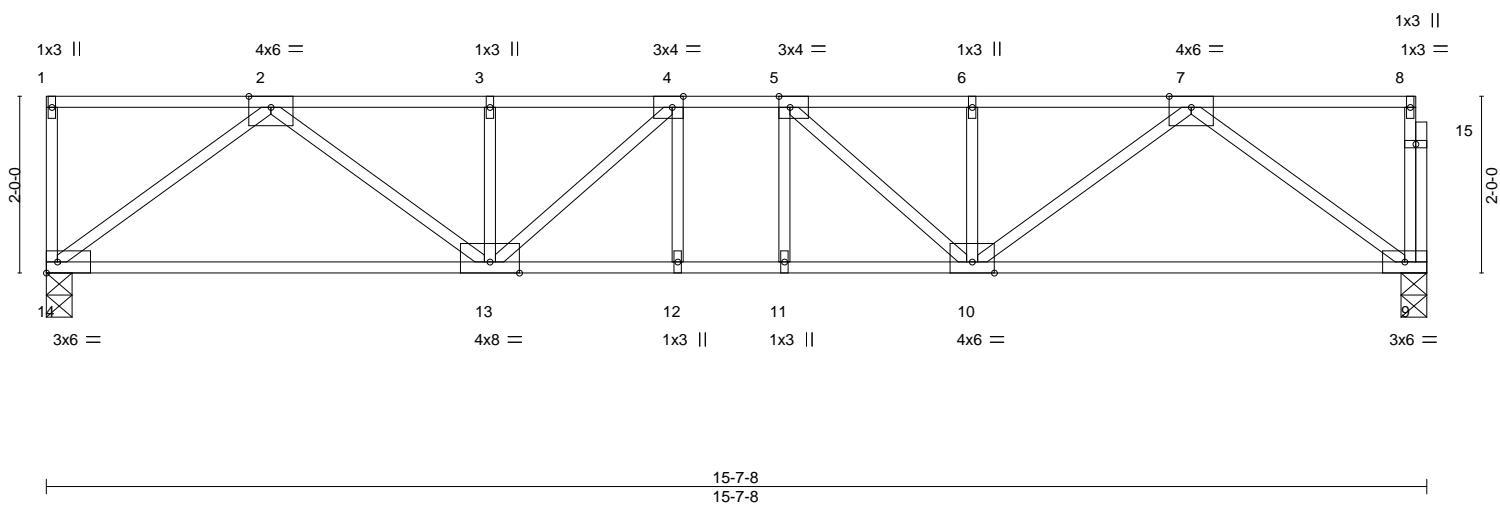


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

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 0.35	Vert(LL)	-0.08	10-11	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.62	Vert(CT)	-0.11	9-10	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.03	9	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 70 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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) 9=0-3-8, 14=0-3-8
Max Grav 9=919(LC 1), 14=926(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1697/0, 3-4=-1697/0, 4-5=-1904/0, 5-6=-1709/0, 6-7=-1709/0
BOT CHORD 13-14=0/1054, 12-13=0/1904, 11-12=0/1904, 10-11=0/1904, 9-10=0/1075
WEBS 7-9=-1331/0, 2-14=-1322/0, 7-10=0/794, 2-13=0/805, 6-10=-283/0, 3-13=-282/0,
5-10=-421/8, 4-13=-432/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) 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.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

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Job 24-1180-E	Truss F432	Truss Type Floor	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443179
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:29 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-VLDVOWenSt52nYSCJnTJyOLYHnvU3PFNqAzxafyHHWO

0-3-12

2-5-0

1-2-12

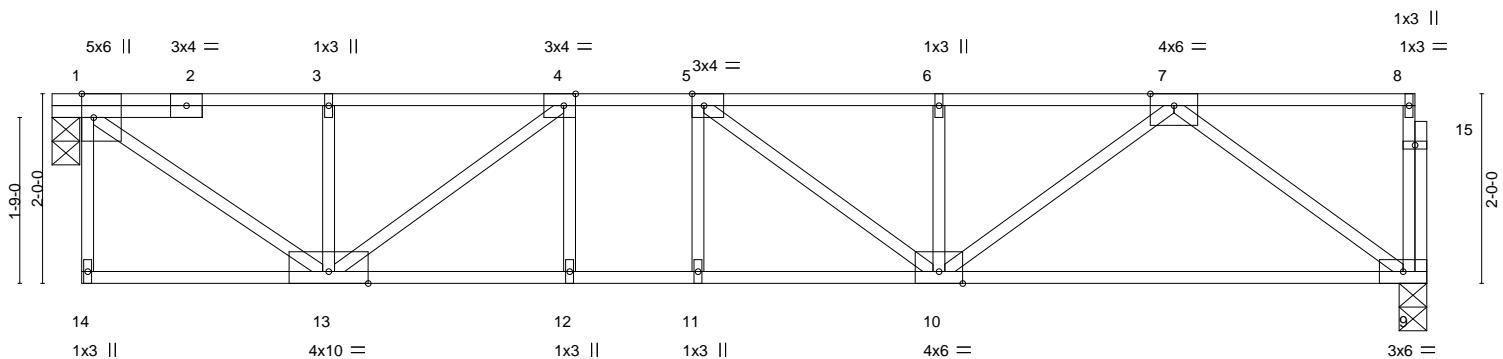
0-1-8
Scale = 1:24.30-3-12
0-3-1214-6-0
14-2-4

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

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 0.52	Vert(LL)	-0.12	10-11	>999	480	
TCDL 15.0	Lumber DOL	1.00	BC 0.79	Vert(CT)	-0.16	10-11	>999	360	
BCLL 0.0	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.02	9	n/a	n/a	
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 66 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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) 9=0-3-8, 1=0-3-8
Max Grav 9=833(LC 1), 1=840(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-3=-959/0, 3-4=-954/0, 4-5=-1523/0, 5-6=-1495/0, 6-7=-1495/0
BOT CHORD 12-13=0/1523, 11-12=0/1523, 10-11=0/1523, 9-10=0/957
WEBS 7-9=-1185/0, 1-13=0/1172, 7-10=0/674, 3-13=-302/0, 6-10=-328/0, 4-13=-730/0

NOTES-

- 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 10-0-0 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 24-1180-E	Truss F433	Truss Type GABLE	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443180
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:29 2024 Page 1
ID:3mCmX7wpmmbwy7h639aarmzZihj-VLDVOWenSt52nYSCJnTJyOLF5n5Y3bMNqAzxafyHHWO

0-1-8

Scale = 1:14.0

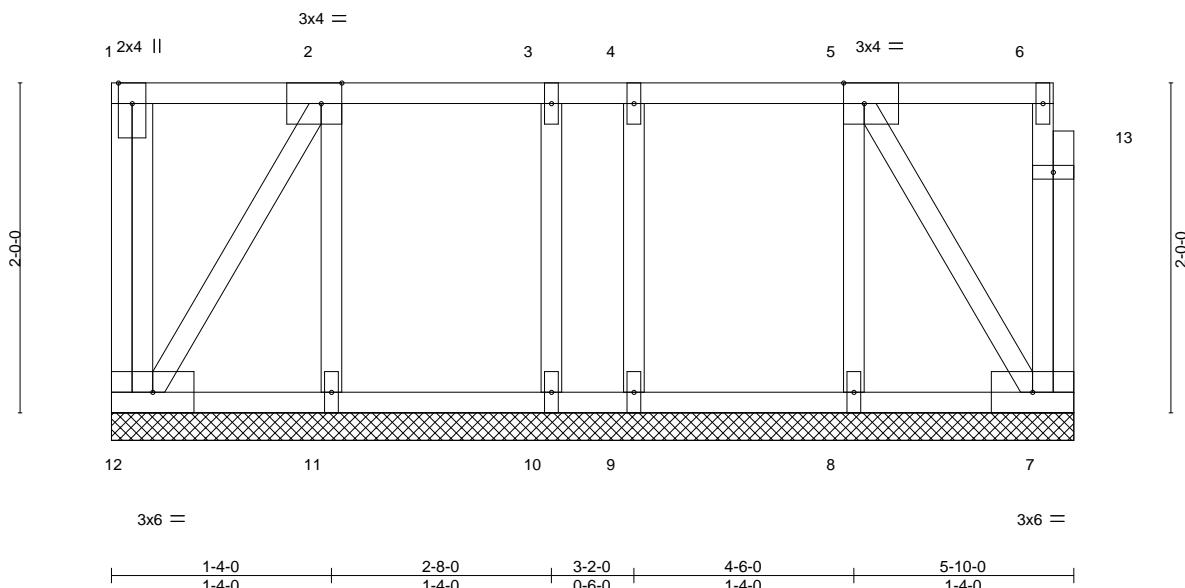


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [5:0-1-8,Edge]

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 0.08	Vert(LL)	n/a	-	n/a	999	
TCDL 15.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a	999	
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	7	n/a	n/a	
BCDL 5.0	Code IRC2018/TPI2014		Matrix-P						Weight: 34 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat)
OTHERS 2x4 HF/SPF Stud/Std(flat)

BRACING-

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

REACTIONS. All bearings 5-10-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 8, 9, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.**NOTES-**

- 1) All plates are 1x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Gable studs spaced at 1-4-0 oc.
- 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.

EXPIRES: Jun 30, 2026
November 20,2024**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

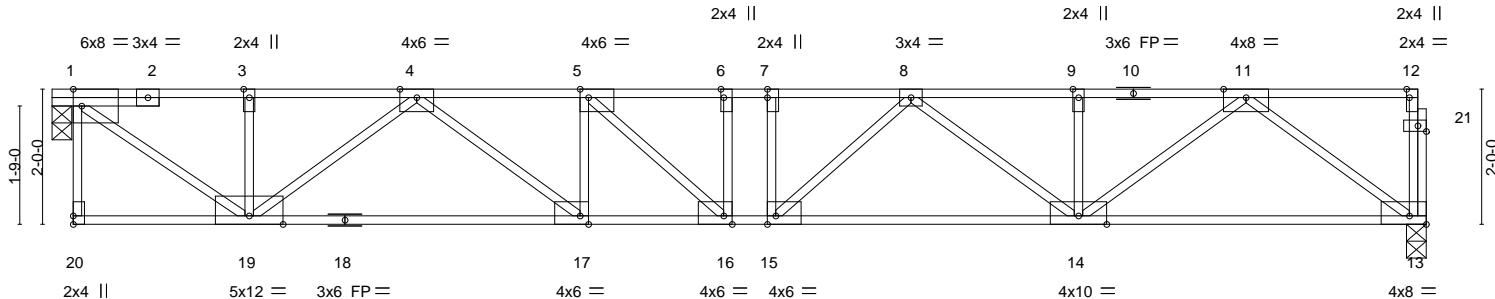
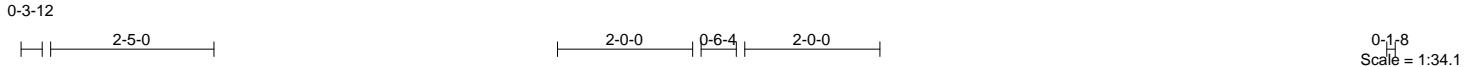
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute (www.tpiinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbcsccomponents.com)

Job 24-1180-E	Truss F434	Truss Type Floor	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443181
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:30 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-zXmtbsfPDADvPi1OtU_Yubul_BESorpW2qiU65yHHWN



0-3-12
0-3-12 | 20-4-0
20-0-4

Plate Offsets (X,Y)-- [1:0-1-8,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [7:0-1-8,0-0-0], [12:0-1-8,Edge], [13:Edge,0-1-8], [15:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [21:0-1-8,0-1-0]

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 0.39	Vert(LL)	-0.18	16	>999	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.87	Vert(CT)	-0.27	14-15	>883	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.85	Horz(CT)	0.01	13	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 91 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(flat) *Except*
1-19: 2x4 SPF No.2(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) 1=0-3-8, 13=0-3-8
Max Grav 1=1190(LC 1), 13=1183(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-3=-1445/0, 3-4=-1440/0, 4-5=-2991/0, 5-6=-3153/0, 6-7=-3153/0, 7-8=-3153/0,

8-9=-2417/0, 9-11=-2417/0

BOT CHORD 17-19=0/2400, 16-17=0/2991, 15-16=0/3153, 14-15=0/2979, 13-14=0/1432

WEBS 11-13=-1775/0, 1-19=0/1769, 11-14=0/1236, 3-19=-267/0, 9-14=-265/0, 4-19=-1204/0,

8-14=-704/0, 4-17=0/741, 8-15=-86/446, 5-17=-403/0, 5-16=-126/450

NOTES-

- 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 10-0-0 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 24-1180-E	Truss F435	Truss Type Floor	Qty 40	Ply 1	4-Plex-A - Farmhouse-Roof	R85443182
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:30 2024 Page 1

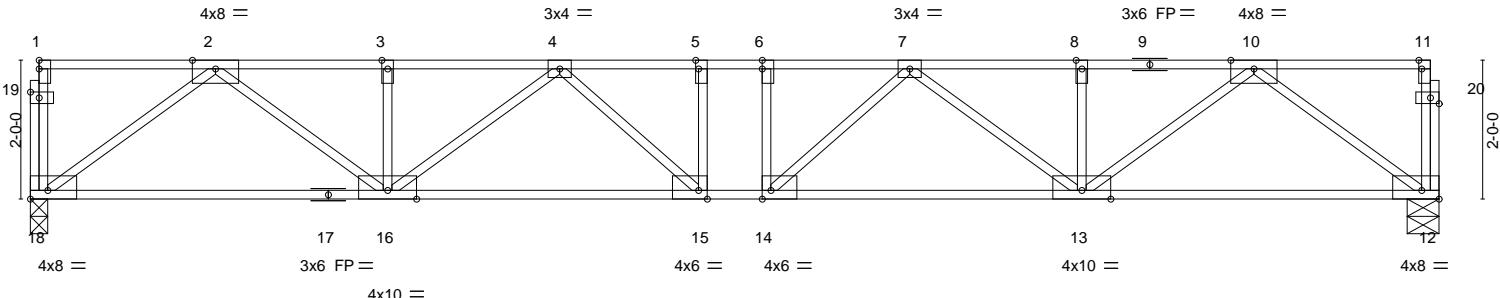
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0-1-8

H | 2-5-0 |

| 2-0-0 | 0-9-8 | 2-0-0 |

0-1-8
Scale 1:33.2



20-3-8
20-3-8

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [11:0-1-8,Edge], [12:Edge,0-1-8], [14:0-1-8,Edge], [15:0-1-8,Edge], [18:Edge,0-1-8], [19:0-1-8,0-1-0], [20:0-1-8,0-1-0]

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 0.42	Vert(LL)	-0.19 15	>999	480		
TCDL 15.0	Lumber DOL	1.00	BC 0.88	Vert(CT)	-0.28 15-16	>857	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.07 12	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S					Weight: 89 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SPF No.2(flat)
BOT CHORD 2x4 SPF No.2(flat)
WEBS 2x4 HF/SPF Stud/Std(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) 18=0-3-0, 12=0-5-8
Max Grav 18=1196(LC 1), 12=1196(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2451/0, 3-4=-2451/0, 4-5=-3218/0, 5-6=-3218/0, 6-7=-3218/0, 7-8=-2451/0,
8-10=-2451/0

BOT CHORD 16-18=0/1449, 15-16=0/3029, 14-15=0/3218, 13-14=0/3029, 12-13=0/1449
WEBS 10-12=-1796/0, 2-18=-1796/0, 10-13=0/1256, 2-16=0/1256, 8-13=-265/0, 3-16=-265/0,
7-13=-725/0, 4-16=-725/0, 7-14=-80/487, 4-15=-80/487

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) 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.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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.



EXPIRES: Jun 30, 2026
November 20,2024

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 24-1180-E	Truss F436	Truss Type GABLE	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443183
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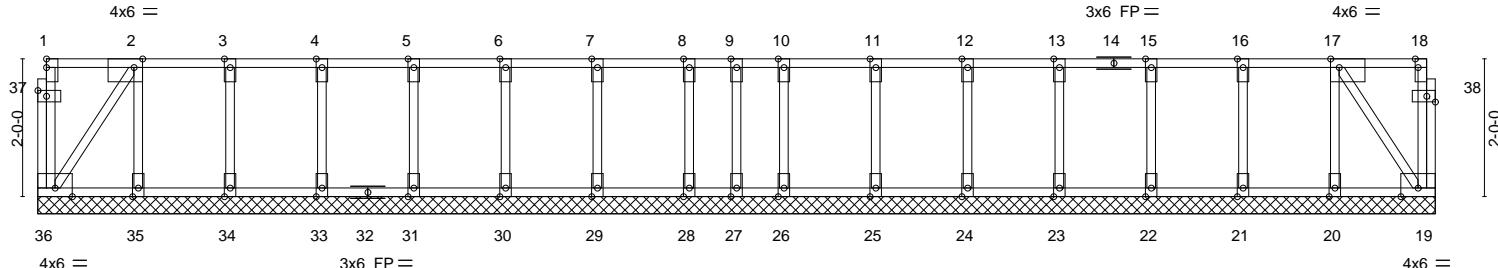
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:31 2024 Page 1
ID:3mCmX7wpmmbwy7h639aarmzZihj-RkKFoBg1_ULI0scaRCVn1pQ?dbm3XVigHUS2fYyHHWM

0-1 8

0-1 8

Scale = 1:33.5



1-5-8	2-9-8	4-1-8	5-5-8	6-9-8	8-1-8	9-5-8	10-1-12	12-2-0	13-6-0	14-10-0	16-2-0	17-6-0	18-10-0	20-3-8
1-5-8	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-4	0-8-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-8

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [37:0-1-8,0-1-0], [38:0-1-8,0-1-0]

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 0.08	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	19	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						Weight: 89 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SPF No.2(flat)
 WEBS 2x4 HF/SPF Stud/Std(flat)
 OTHERS 2x4 HF/SPF Stud/Std(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. All bearings 20-3-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 27, 20, 21, 22, 23, 24, 25, 26, 35, 34, 33, 31, 30, 29, 28, 19

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.**NOTES-**

- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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 10-0-0 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.

EXPIRES: Jun 30, 2026
November 20,2024**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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute (www.tpiinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbcsccomponents.com)

Job	Truss	Truss Type	Qty	Ply	4-Plex-A - Farmhouse-Roof	R85443184
24-1180-E	F437	Floor Girder	8	2	Job Reference (optional)	
Modular Camo A-	PHOENIX, AZ 85042					

Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:31 2024 Page 1

R85443184

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8.830 S Nov 8 2024 MITEK Industries, Inc.
bwv7b639aarmzZibi-BkKEoBq1 LIIJ0s

2

The diagram shows a rectangular room layout with various dimensions and features:

- Width: The total width is indicated by a horizontal dimension line at the top labeled "2-1-0".
- Height: Two vertical dimension lines on the left and right sides are both labeled "1-9-0".
- Rooms and Labels:
 - Room 1 (top left): "1 2x4 ||".
 - Room 7 (center top): "7".
 - Room 2 (center top): "2 3x4 =".
 - Room 8 (center right): "8".
 - Room 3 (top right): "3 2x4 ||".
 - Central area: "LUS46".
 - Bottom center: "6".
 - Bottom left: "4x6 =".
 - Bottom right: "4x6 =".
- Structural Details:
 - Left wall: A vertical line with a cross-hatched section at the bottom labeled "5".
 - Right wall: A vertical line with a cross-hatched section at the bottom labeled "4".
 - Center support: A vertical line with a cross-hatched section at the bottom labeled "6".
 - Top corners: Each corner has a small square with a dot inside.
- Scale: "Scale = 1:11.5" is located in the top right corner.

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 0.25	Vert(LL)	-0.01	4-5	>999	480	MT20	185/144
TCDL 15.0	Lumber DOL	1.00	BC 0.23	Vert(CT)	-0.02	4-5	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.22	Horz(CT)	0.00	4	n/a	n/a		
BCDL 5.0	Code IRC2018/TP12014		Matrix-P						Weight: 43 lb	FT = 11%

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Stds

BRACIN

TOP CHORD	Structural wood sheathing directly applied or 4-9-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS,

(size) 5=0-3-8, 4=0-3-8
 Max Grav 5=1254(LC 1), 4=1420(LC 1)

FORCES

TOP CHORD 3-4-461/0

4-5=0/1308

WEBS 2-5-1537/0

WEBS Z 8-188778, Z 1-188778

- NOTES-**

 - 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 3) 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.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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) Use Simpson Strong-Tie LUS46 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 1-11-12 from the left end to connect truss(es) to back face of bottom chord.
 - 6) Fill all nail holes where hanger is in contact with lumber

LOAD CASE(S) Standard

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

Uniform Loads (plf)
Vert: 4-5=-10, 1-3=-110

Concentrated Loads (lb)
Vert: 6=-317(B) 7=-1080 8=-742



EXPIRES: Jun 30, 2026
November 20,2024



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

A WARNING - Verify design parameters and **READ NOTES ON THIS AND INCLUDED MTR REFERENCE PAGE MP-TPI-173 REV. 11/2023 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/TPI 11 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.sbscomponents.com).

The MiTek logo consists of the word "MiTek" in a bold, blue, sans-serif font. A registered trademark symbol (®) is positioned in the top right corner of the letter "k".

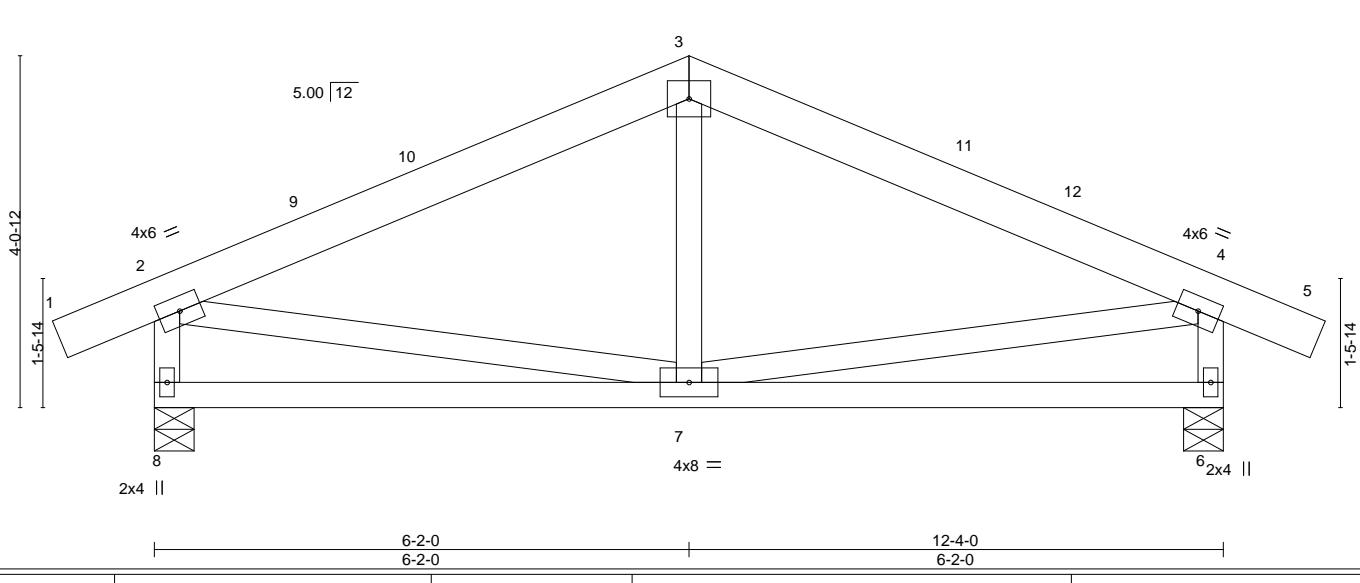
Job 24-1180-E	Truss G401	Truss Type COMMON	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof	R85443186
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:32 2024 Page 1
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-1-0-0 1-0-0 6-2-0 6-2-0 12-4-0 6-2-0 13-4-0 1-0-0

Scale = 1:26.6



6-2-0
6-2-0

12-4-0
6-2-0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.34	Vert(LL) -0.03 7-8 >999 360	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.23	Vert(CT) -0.05 7-8 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.00 6 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.01 7 >999 240	Weight: 62 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

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) 8=0-5-8, 6=0-5-8
Max Horz 8=85(LC 11)
Max Uplift 8=115(LC 12), 6=115(LC 12)
Max Grav 8=520(LC 1), 6=520(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=500/234, 3-4=500/234, 2-8=481/291, 4-6=481/292
WEBS 2-7=-88/311, 4-7=-92/311

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 1-1-1 to 1-10-15, Interior(1) 1-10-15 to 6-2-0, Exterior(2R) 6-2-0 to 9-2-0, Interior(1) 9-2-0 to 13-5-1 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
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=115, 6=115.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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 24-1180-E	Truss J5M	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443187
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Madera Comp Az, PHOENIX, AZ - 85043,

-1-5-12
1-5-12

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:38 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-k4FvGblQKeDmMxewLA7QpHD9gP2sgf6iu4evPeyHHWF
6-7-2
6-7-2

Scale = 1:15.3

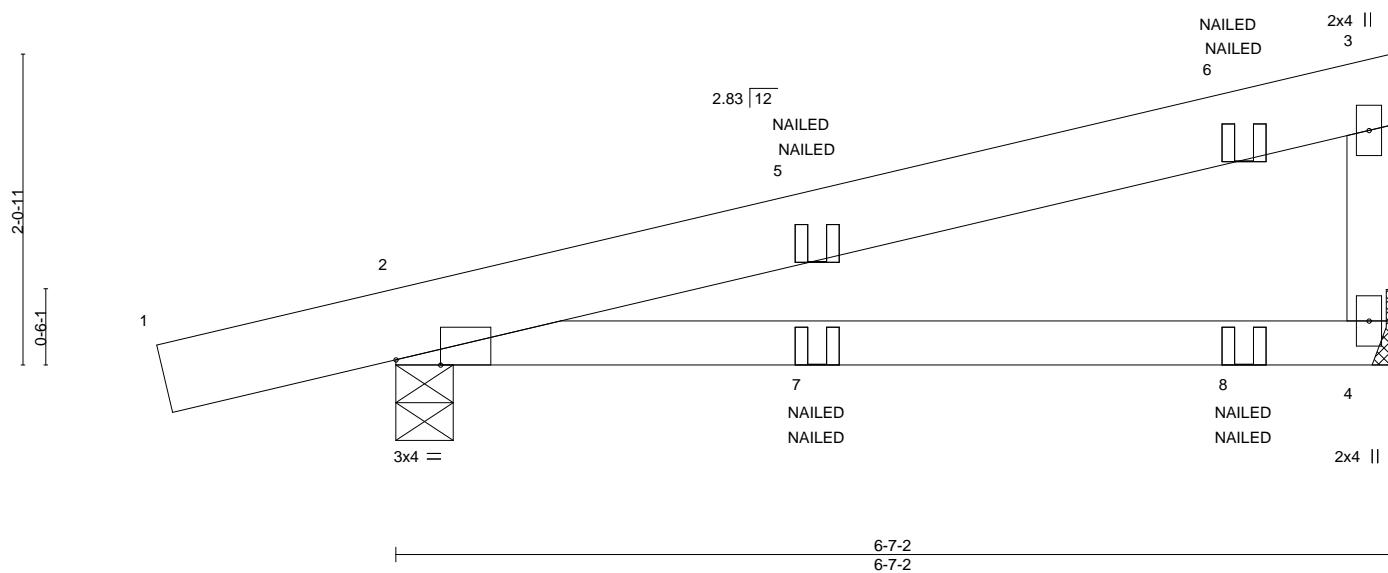


Plate Offsets (X,Y)-- [2:0-3-9,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.22	Vert(LL)	-0.11	2-4	>708	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.45	Vert(CT)	-0.18	2-4	>416	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.10	2-4	>730	240	Weight: 24 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

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) 4=Mechanical, 2=0-4-9
Max Horz 2=70(LC 9)
Max Uplift 4=-123(LC 8), 2=-198(LC 8)
Max Grav 4=304(LC 1), 2=400(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -1-6-6 to 2-8-9, Exterior(2R) 2-8-9 to 6-5-6 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except ($j_t=lb$) $4=123, 2=198$.
- 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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 + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=68, 2-4=14
Concentrated Loads (lb)
Vert: 6=52(F=-26, B=-26) 8=-22(F=-11, B=-11)



EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss J14	Truss Type Jack-Open	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443188
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:33 2024 Page 1

ID:3mCmX7wpmbwy7h639aarmzzIzh-O6S0DthHW5bTGA1zYdYF6EWEyOQt?Otzkox8jQyHHWK

1-0-0 1-11-11 1-11-11

Scale = 1:20.5

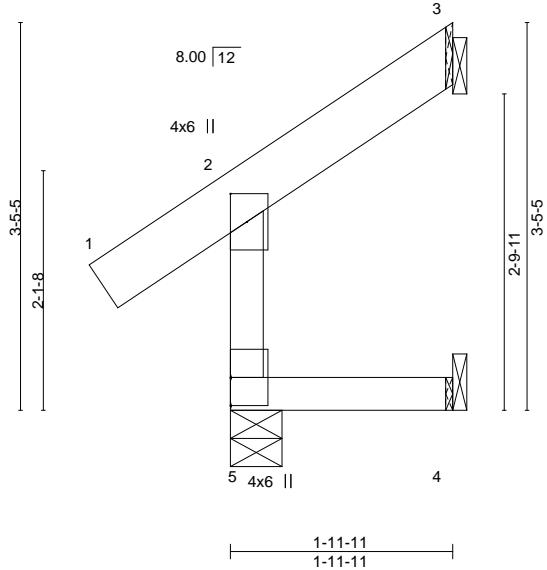


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.54	Vert(LL)	-0.00	4-5	>999	240		
TCDL 14.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	-0.00	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL 7.0	Code	IRC2018/TPI2014	Matrix-R						Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 5=126(LC 12)
Max Uplift 3=-62(LC 12), 4=-38(LC 12)
Max Grav 5=170(LC 1), 3=51(LC 17), 4=33(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 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.



EXPIRES: Jun 30, 2026
November 20,2024

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

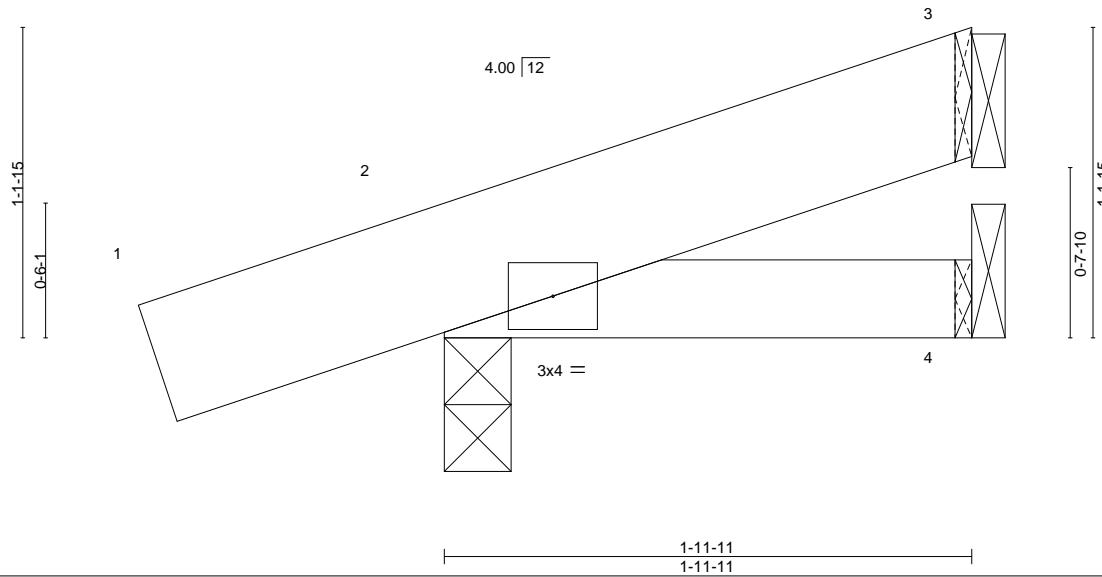
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Job 24-1180-E	Truss J14M	Truss Type JACK-OPEN	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443189
Madera Comp Az, PHOENIX, AZ - 85043,					8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:33 2024 Page 1 ID:3mCmX7wpmmbwy7h639aarmzZihj-O6S0DthW5bTGAlzYdYF6EWM4OSH?Otzkox8jQyHHWK	

-1-0-0 1-11-11
1-0-0 1-11-11

Scale = 1:8.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.02	Vert(LL) -0.00 2 >999 360	MT20	197/144
TCDL 14.0	Lumber DOL 1.25	BC 0.03	Vert(CT) -0.00 2-4 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240	Weight: 8 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical

Max Horz 2=36(LC 12)
Max Uplift 3=-12(LC 12), 2=-58(LC 12)
Max Grav 3=39(LC 1), 2=156(LC 1), 4=33(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 2.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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

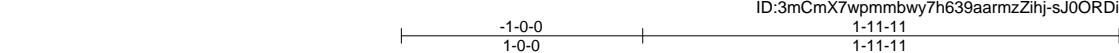
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpiinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

Job 24-1180-E	Truss J15	Truss Type JACK-OPEN	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443190
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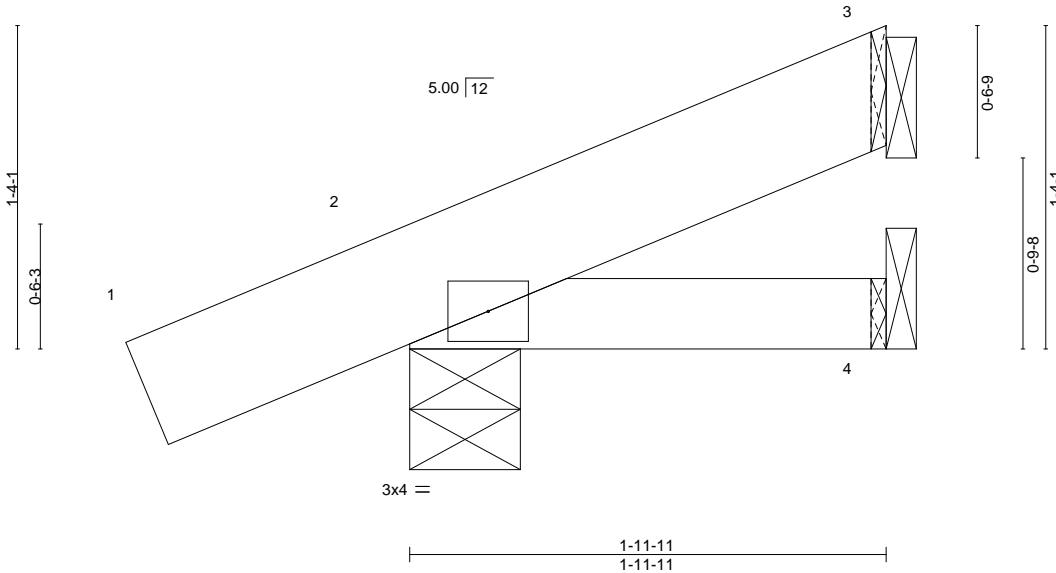
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:34 2024 Page 1

ID:3mCmX7wpmbwy7h639aarmzZihj-sJ0ORDivHPjKtKK96K3Ufr2WoooXkr66zSgiGsyHHWJ



Scale = 1:9.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.02	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL 14.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.00	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2	>999	240	Weight: 8 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=46(LC 12)
Max Uplift 3=-13(LC 9), 2=-80(LC 12), 4=-13(LC 8)
Max Grav 3=37(LC 1), 2=159(LC 1), 4=33(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 2, 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.



EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss J24M	Truss Type JACK-OPEN	Qty 2	Ply 1	4-Plex-A - Farmhouse-Roof	R85443191
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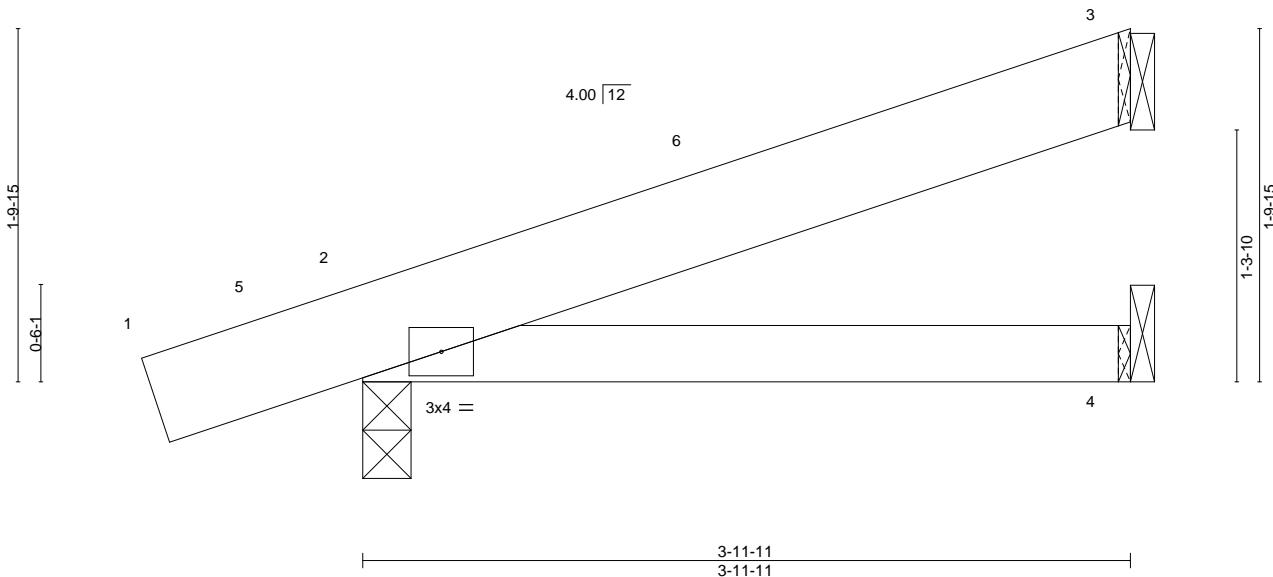
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:34 2024 Page 1

ID:3mCmX7wpmbwy7h639aarmzZlhj-sJ0ORDivHPjKtKK96K3UfR2WAon3kr66zSgiGsyHHWJ

-1-0-0 3-11-11
1-0-0 3-11-11

Scale: 1"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.06	Vert(LL) -0.01 2-4 >999 360	MT20	197/144
TCDL 14.0	Lumber DOL 1.25	BC 0.12	Vert(CT) -0.02 2-4 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240	Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical

Max Horz 2=57(LC 12)
Max Uplift 3=-39(LC 12), 2=-64(LC 12)
Max Grav 3=102(LC 1), 2=223(LC 1), 4=64(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-14 to 1-11-2, Interior(1) 1-11-2 to 3-10-15 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

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

6) 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.



EXPIRES: Jun 30, 2026
November 20,2024

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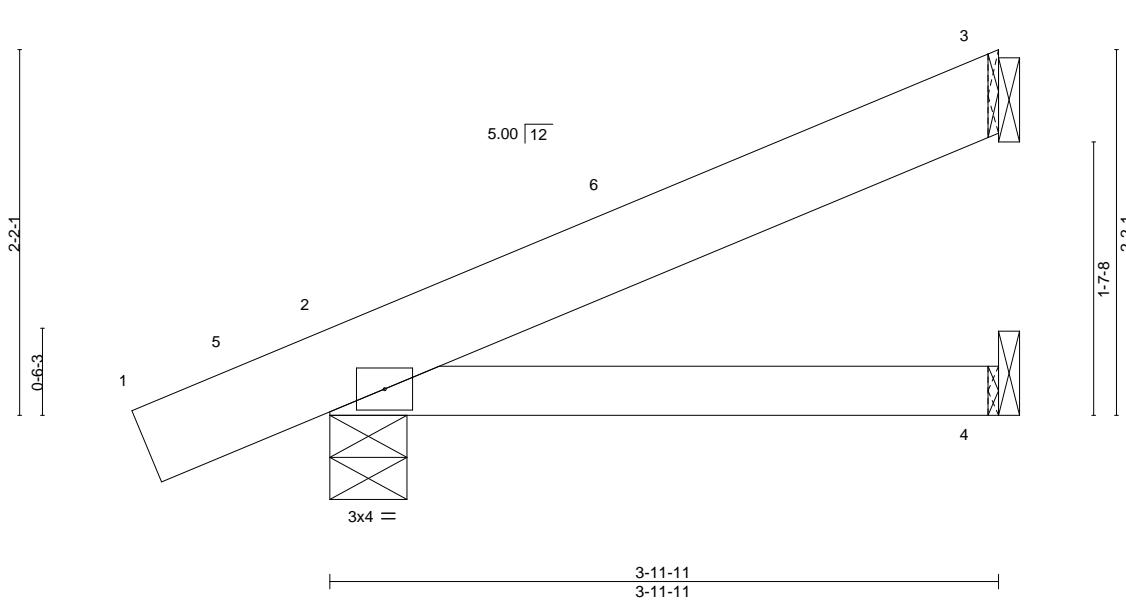
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Job 24-1180-E	Truss J25	Truss Type JACK-OPEN	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443192
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:34 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-sJ0ORDivHPjKtKK96K3UfR2WMonAkr66zSgiGsyHHWJ
3-11-11
3-11-11



Scale = 1:13.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.05	Vert(LL) -0.01 2-4 >999 360	MT20	197/144
TCDL 14.0	Lumber DOL 1.25	BC 0.11	Vert(CT) -0.02 2-4 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.01 2-4 >999 240	Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=72(LC 12)
Max Uplift 3=-41(LC 12), 2=-106(LC 12), 4=-25(LC 8)
Max Grav 3=96(LC 1), 2=229(LC 1), 4=63(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 3-10-15 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb)
2=106.

6) 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.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

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Job 24-1180-E	Truss J42	Truss Type JACK-CLOSED	Qty 6	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443193
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:35 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-KVameZjY2jrBVTvLg2ajBfbh1C6YTIMFC6QFoJyHHWI
1-10-7
1-10-7
2-0-0
0-1-9

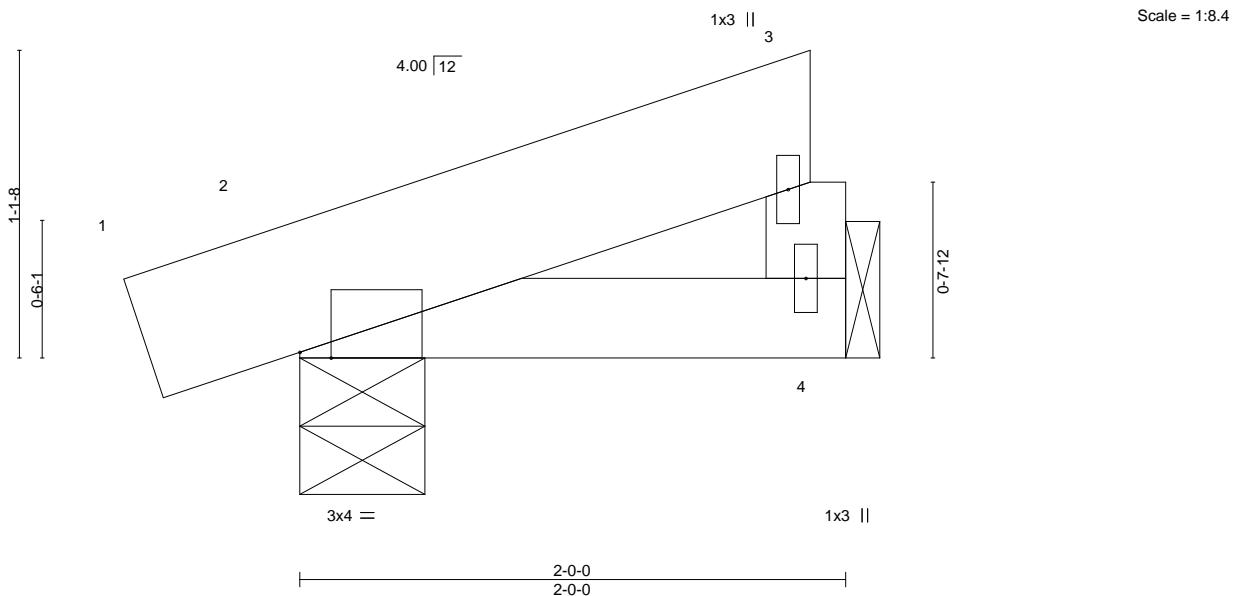


Plate Offsets (X,Y)-- [2:0-1-6,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.05	Vert(LL)	-0.00	2-4	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	n/a	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 7 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-5-8
Max Horz 2=57(LC 12)
Max Uplift 4=-46(LC 12), 2=-81(LC 12)
Max Grav 4=59(LC 1), 2=115(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 2.
- 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.



EXPIRES: Jun 30, 2026
November 20, 2024

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Job 24-1180-E	Truss J44	Truss Type Jack-Closed	Qty 20	Ply 1	4-Plex-A - Farmhouse-Roof	R85443194
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:35 2024 Page 1

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-1-0-0 3-0-0 3-0-0

Scale: 1/2"=1'

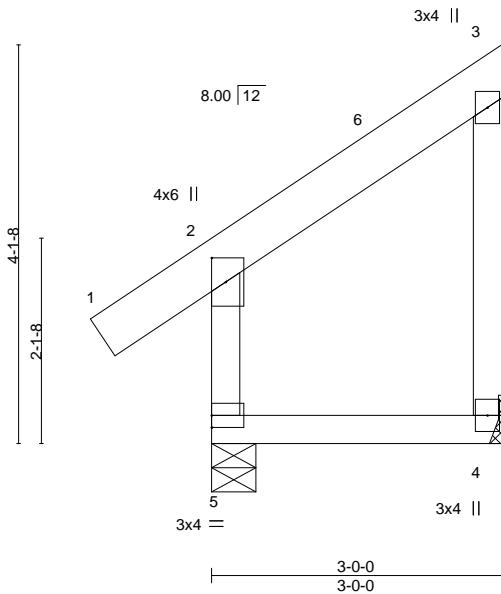


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	-0.00	4-5	>999	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	-0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	240	Weight: 18 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-8 to 1-10-8, Interior(1) 1-10-8 to 2-10-4 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
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 5 except ($j_t=lb$) $4=100$.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss J44A	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443195
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:36 2024 Page 1

ID:3mCmX7wpmbwy7h639aarmzZih-jh88svjAo0z27dUYDI5yks8j4cRhClcPrm9pKlyHHWH

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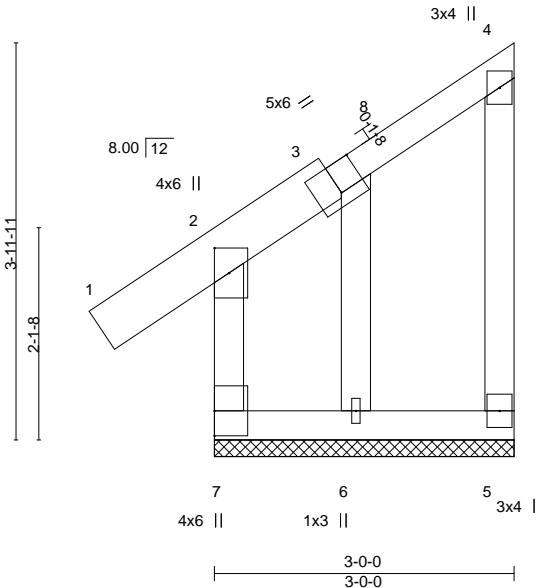


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [3:0-3-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.61	Vert(LL)	-0.00	1	n/r	120	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 7.0	Code	IRC2018/TPI2014	Matrix-R						Weight: 19 lb	FT = 20%

LUMBER-TOP CHORD 2x6 SPF 1650F 1.5E *Except*
3-4: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 HF/SPF Stud/Std

OTHERS 2x4 SPF Utility

BRACING-TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins,
except end verticals.

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

REACTIONS. (size) 7=3-0-0, 5=3-0-0, 6=3-0-0

Max Horz 7=147(LC 9)

Max Uplift 7=-36(LC 8), 5=-85(LC 9), 6=-60(LC 12)

Max Grav 7=213(LC 18), 5=109(LC 17), 6=51(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.**NOTES-**

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-8 to 1-10-8, Interior(1) 1-10-8 to 2-10-4 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

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Gable requires continuous bottom chord bearing.

5) Gable studs spaced at 1-4-0 oc.

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

7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5, 6.

9) 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.

EXPIRES: Jun 30, 2026
November 20,2024**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/TPI Quality Criteria and DSB-22](#) available from the Truss Plate Institute (www.tpiinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 24-1180-E	Truss J52	Truss Type DIAGONAL HIP GIRDER	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443196
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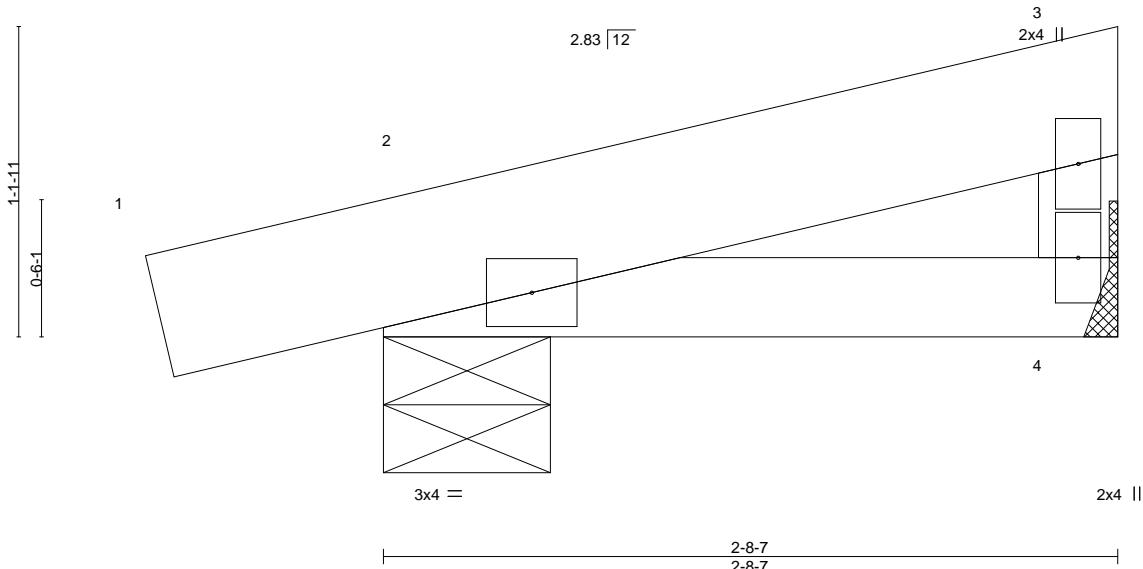
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:36 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZlhj-oh88svjAo0z27dUYDl5yks8s0cUIClCPRm9pKlyHHWH

-0-9-4 0-9-4 2-8-7 2-8-7

Scale = 1:8.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.04	Vert(LL) -0.00 2-4 >999 360	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.04	Vert(CT) -0.00 2-4 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 4 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240	Weight: 10 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-7-6
Max Horz 2=30(LC 11)
Max Uplift 4=8(LC 8), 2=-74(LC 8)
Max Grav 4=73(LC 1), 2=188(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

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Job 24-1180-E	Truss J54	Truss Type DIAGONAL HIP GIRDER	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443197
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:37 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-GthW3FkoZK5vkn3knTcBG4gzg?nXxBtYfQvMsByHHWG

-1-5-12 1-5-12 4-1-7 4-1-7

Scale = 1:23.4

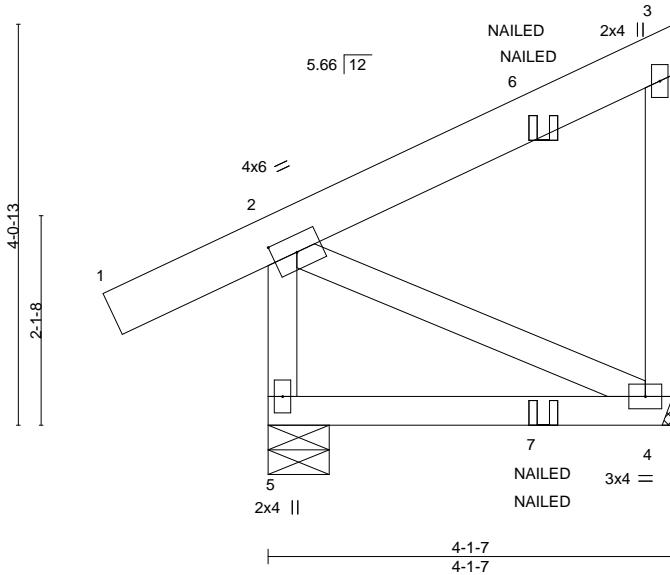


Plate Offsets (X,Y)-- [2:0-2-15,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.30	Vert(LL)	0.02	4-5	>999	240	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.14	Vert(CT)	-0.02	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.13	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-7-7, 4=Mechanical
Max Horz 5=148(LC 11)
Max Uplift 5=-120(LC 12), 4=-187(LC 9)
Max Grav 5=278(LC 36), 4=188(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-254/267
BOT CHORD 4-5=-315/176
WEBS 2-4=-135/295

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -1-6-15 to 2-8-0, Exterior(2R) 2-8-0 to 3-11-11 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
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 5=120, 4=187.
- 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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 + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-5=-14

Concentrated Loads (lb)
Vert: 7=1(F=0, B=0)



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DS-B-22** available from the Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 24-1180-E	Truss J55	Truss Type ROOF SPECIAL GIRDER	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443198
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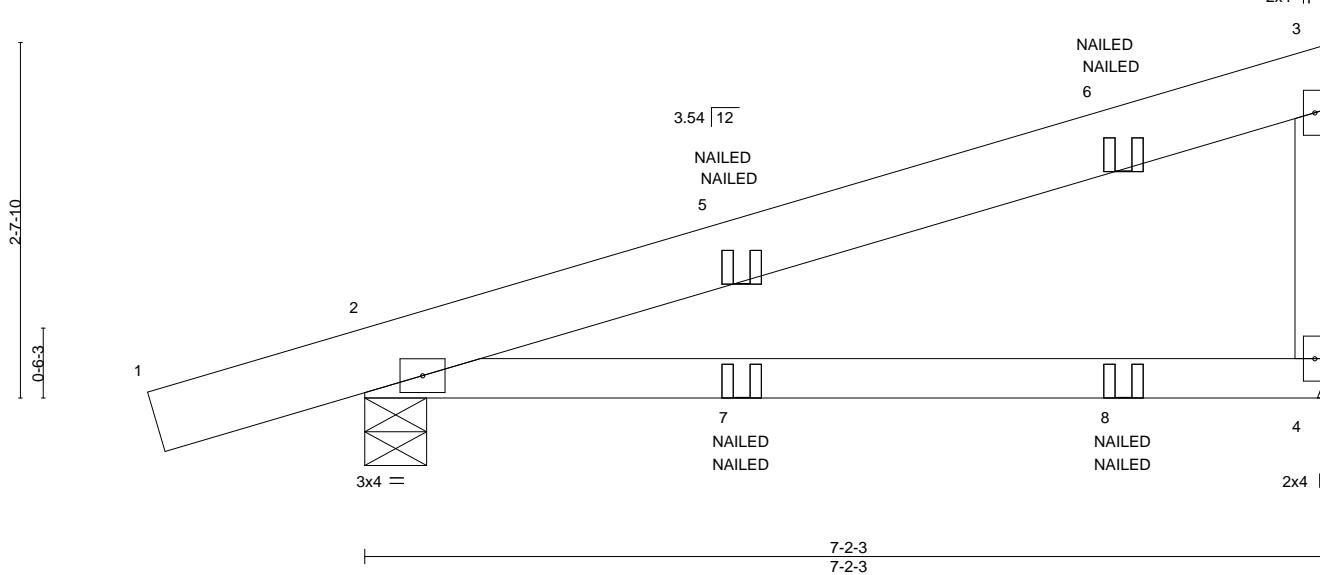
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:37 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-GthW3FkoZK5vkN3knTcBG4g_N?hQxCsYfQvMsByHHWG

-1-5-12 7-2-3
1-5-12 7-2-3

Scale = 1:17.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26	Vert(LL)	-0.14	2-4	>567	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.24	2-4	>334	240	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	4	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.16	2-4	>511	240	Weight: 27 lb FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

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) 4=Mechanical, 2=0-5-8
Max Horz 2=91(LC 11)
Max Uplift 4=139(LC 8), 2=194(LC 12)
Max Grav 4=281(LC 1), 2=420(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4--224/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -1-6-8 to 2-8-6, Exterior(2R) 2-8-6 to 7-0-7 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 4=139, 2=194.
- 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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 + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=68, 2-4=14
Concentrated Loads (lb)
Vert: 6=11(F=-5, B=-5) 8=12(F=-6, B=-6)



EXPIRES: Jun 30, 2026
November 20, 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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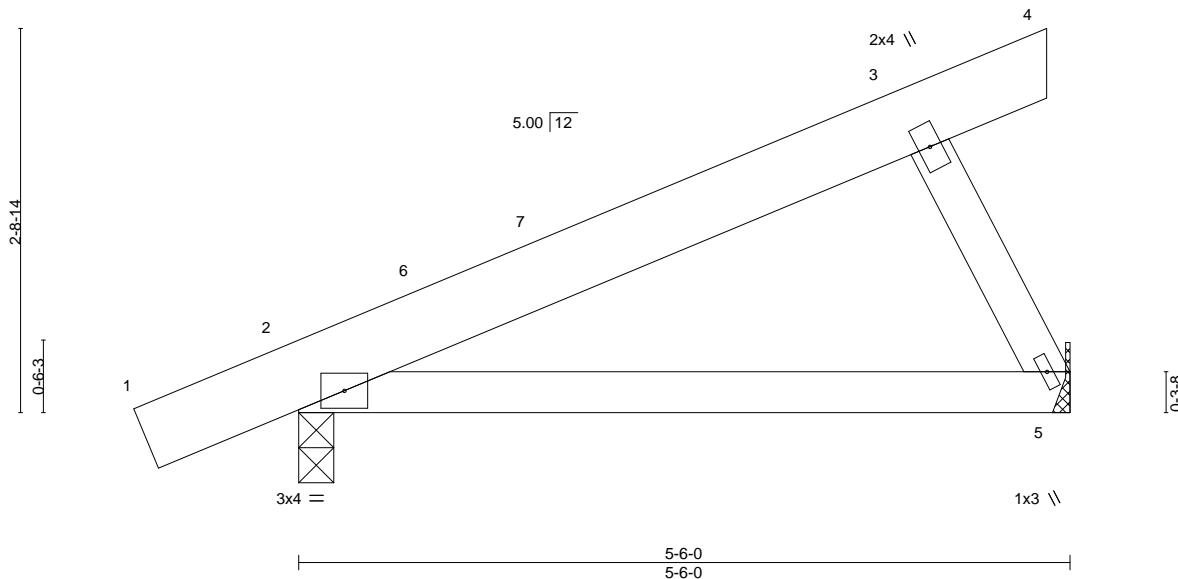
Job 24-1180-E	Truss M101	Truss Type MONOPITCH	Qty 31	Ply 1	4-Plex-A - Farmhouse-Roof	R85443199
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:38 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-k4FvGblQKeDmMxewLA7QpHDB6P5tgepiu4evPeyHHWF
 4-6-0 4-6-0 5-4-0 5-6-0
 0-10-0 0-2-0

Scale = 1:16.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.06	Vert(LL)	-0.05	2-5	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.26	Vert(CT)	-0.08	2-5	>797	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.05	2-5	>999	240	Weight: 21 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SPF 1650F 1.5E
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 HF/SPF Stud/Std

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 5=Mechanical
 Max Horz 2=98(LC 12)
 Max Uplift 2=122(LC 12), 5=115(LC 12)
 Max Grav 2=277(LC 1), 5=183(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 5-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 2=122, 5=115.
- 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.



EXPIRES: Jun 30, 2026
 November 20, 2024

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Job 24-1180-E	Truss M102	Truss Type MONOPITCH	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof	R85443200
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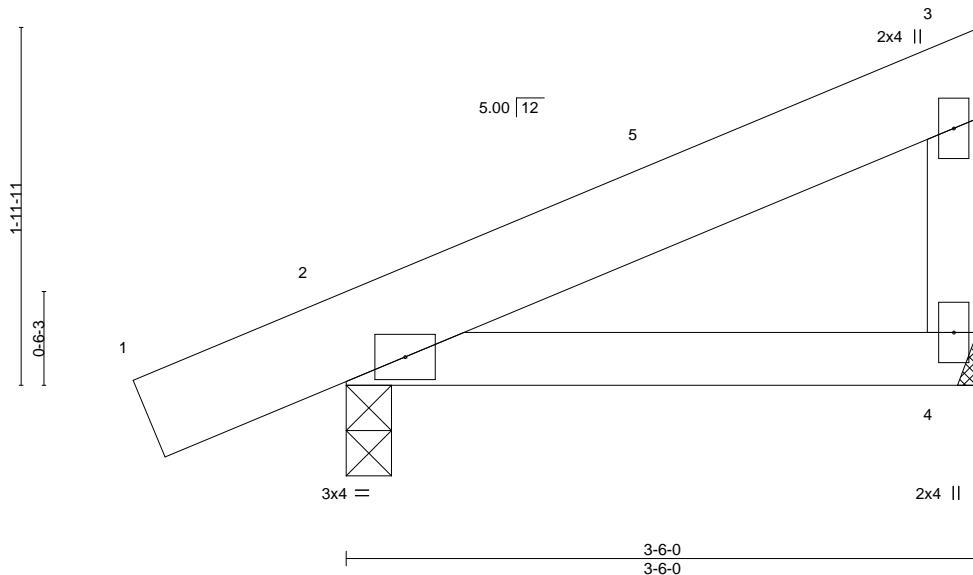
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:39 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-CGpHUXm25xLd_5D7vtefMVIMlpUnP6Mr7kOTx4yHHWE

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

Scale = 1:12.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.07	Vert(LL)	-0.01 2-4	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.01 2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.01 2-4	>999	240	Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

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) 4=Mechanical, 2=0-3-0
Max Horz 2=65(LC 9)
Max Uplift 4=-48(LC 12), 2=-106(LC 12)
Max Grav 4=106(LC 1), 2=206(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 3-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except ($j_t=lb$) $2=106$.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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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400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss M103	Truss Type GABLE	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof	R85443201
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:39 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-CGpHUXm25xLd_5D7vtefMVLspUpP6Mr7kOTx4yHHWE

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

Scale: 1"=1"

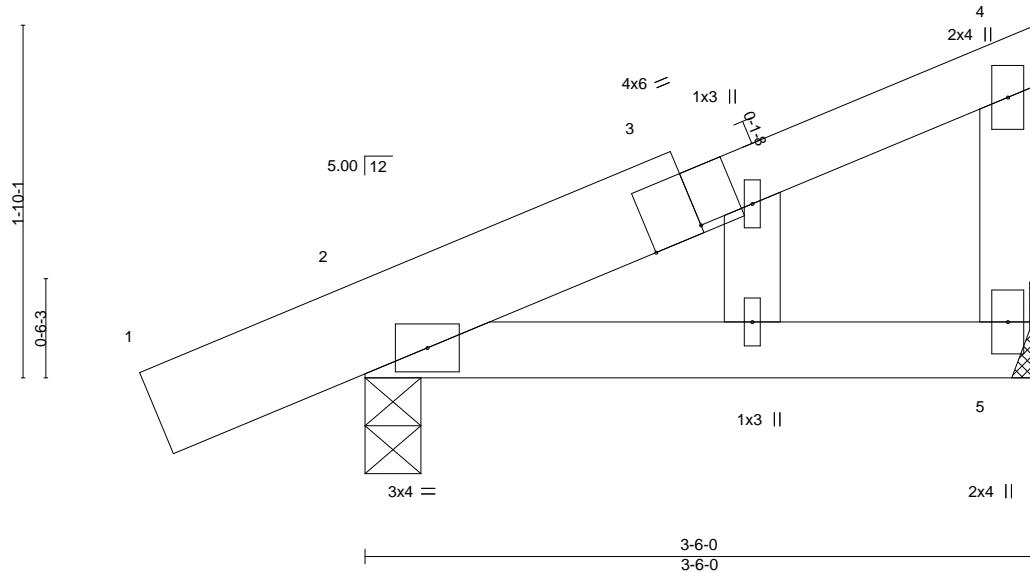


Plate Offsets (X,Y)-- [3:0-3-4,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	-0.01	2-5	>999	360		
TCDL 14.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.01	2-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.01	2-5	>999	240	Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E *Except*
3-4: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 HF/SPF Stud/Std

OTHERS 2x4 SPF Utility

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=Mechanical, 2=0-3-8

Max Horz 2=63(LC 9)

Max Uplift 5=-47(LC 12), 2=-106(LC 12)

Max Grav 5=104(LC 1), 2=207(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 3-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Gable studs spaced at 1-4-0 oc.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Refer to girder(s) for truss to truss connections.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb)
2=106.

9) 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.



EXPIRES: Jun 30, 2026
November 20,2024

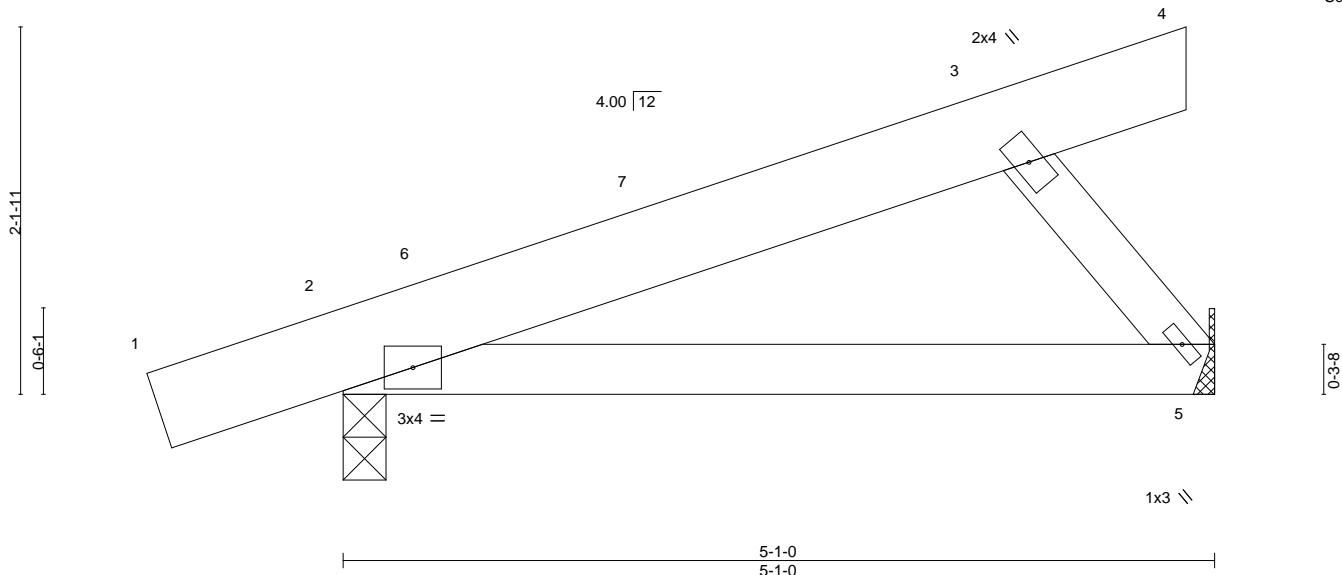
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TPI1 Quality Criteria and DSB-22](#) available from the Truss Plate Institute (www.tpiinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbcsccomponents.com)

Job 24-1180-E	Truss M111	Truss Type MONOPITCH	Qty 7	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443202
Madera Comp Az,	PHOENIX, AZ - 85043,				8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:39 2024 Page 1 ID:3mCmX7wpmmbw7h639aarmzZihj-CGpHUXm25xLd_5D7vtefMVIN1pSfp5lr7kOTx4yHHWE	

-1-0-0 1-0-0 4-0-0 4-0-0 4-11-0 0-11-0 5-1-0 0-2-0

Scale = 1:13.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.05	Vert(LL) -0.03 2-5 >999 360	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.22	Vert(CT) -0.06 2-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) -0.00 5 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.04 2-5 >999 240	Weight: 19 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-0, 5=Mechanical
Max Horz 2=74(LC 12)
Max Uplift 2=122(LC 12), 5=103(LC 12)
Max Grav 2=262(LC 1), 5=166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-14 to 1-11-2, Interior(1) 1-11-2 to 4-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 2=122, 5=103.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

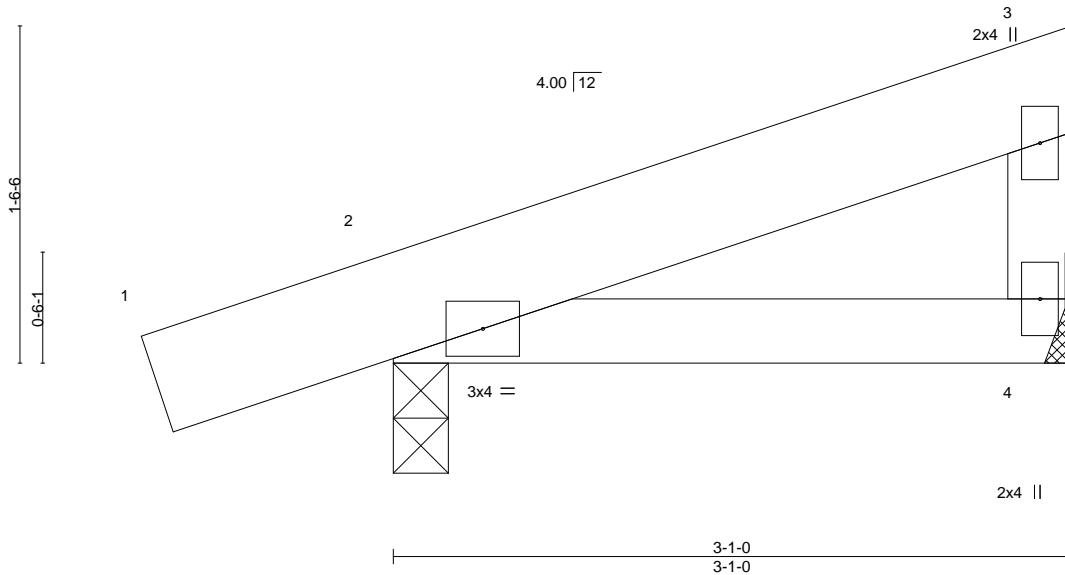
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

Job 24-1180-E	Truss M112	Truss Type MONOPITCH	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443203
Madera Comp Az,	PHOENIX, AZ - 85043,				8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:40 2024 Page 1 ID:3mCmX7wpmmbwy7h639aarmzZihj-gSNlhGmgsFUUbFoJSbAuuiYtDrN8Zb?LO70TwyHHWD	

-1-0-0 3-1-0
1-0-0 3-1-0

Scale = 1:10.5



3-1-0 3-1-0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.05	Vert(LL)	-0.00	2-4	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.01	2-4	>999	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2-4	>999	240	Weight: 12 lb FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-0
Max Horz 2=47(LC 9)
Max Uplift 4=39(LC 12), 2=100(LC 12)
Max Grav 4=89(LC 1), 2=191(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-14 to 1-11-2, Interior(1) 1-11-2 to 2-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 2.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss M113	Truss Type MONOPITCH SUPPORTED	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof	R85443204
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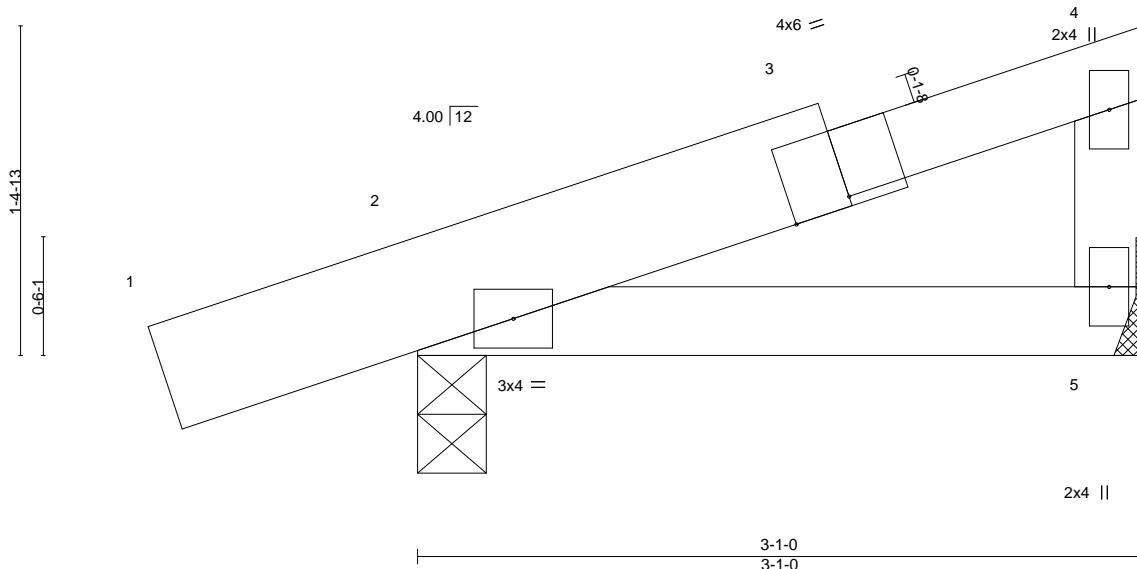
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:40 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-gSNfhGmgsFUUbFoJSbAuuiXwDr08Zb?LO70TwyHHWD

|-1'-0" 1'-0"-| 3'-1" 3'-1"-|

Scale = 1:9.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.11	Vert(LL)	-0.00	2-5	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.01	2-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E *Except*
3-4: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins,
except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-3-8
Max Horz 2=45(LC 9)
Max Uplift 5=-9(LC 9), 2=-69(LC 12)
Max Grav 5=87(LC 1), 2=192(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-14 to 1-11-2, Exterior(2N) 1-11-2 to 2-11-4 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.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 5, 2.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
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Job 24-1180-E	Truss M313	Truss Type MONOPITCH SUPPORTED	Qty 2	Ply 1	4-Plex-A - Farmhouse-Roof	R85443205
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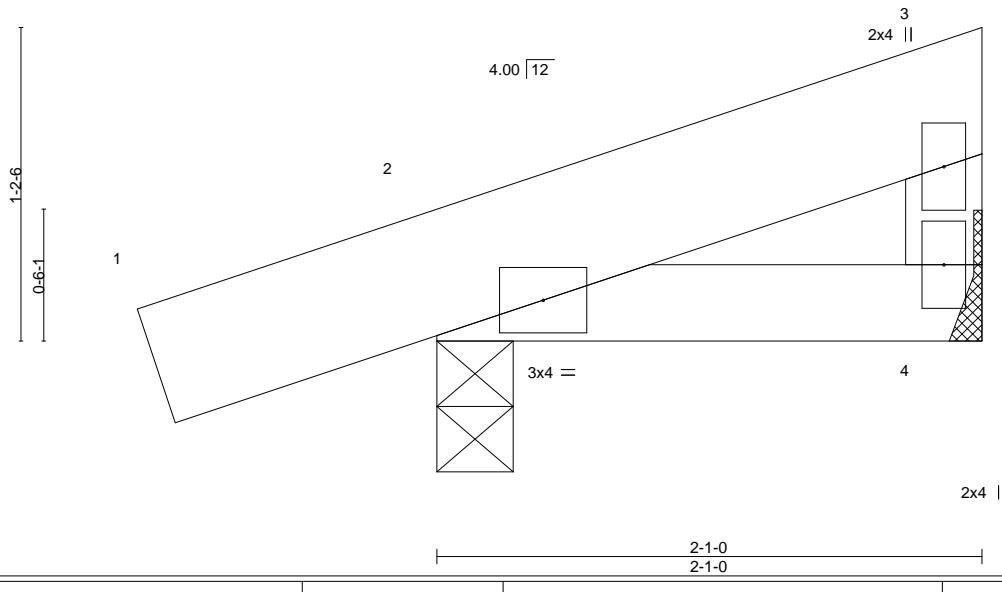
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:41 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-9fx1vcnldZcLDONV0lh7RwrjmdBDt0r8a2tZ?yyHHWC

-1-0-0 1-0-0 2-1-0 2-1-0

Scale = 1:8.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.04	Vert(LL) -0.00 2 >999 360	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.02	Vert(CT) -0.00 2-4 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 4 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240	Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8
Max Horz 2=34(LC 11)
Max Uplift 4=6(LC 9), 2=-70(LC 12)
Max Grav 4=44(LC 3), 2=164(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 2.
- 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.



EXPIRES: Jun 30, 2026
November 20, 2024

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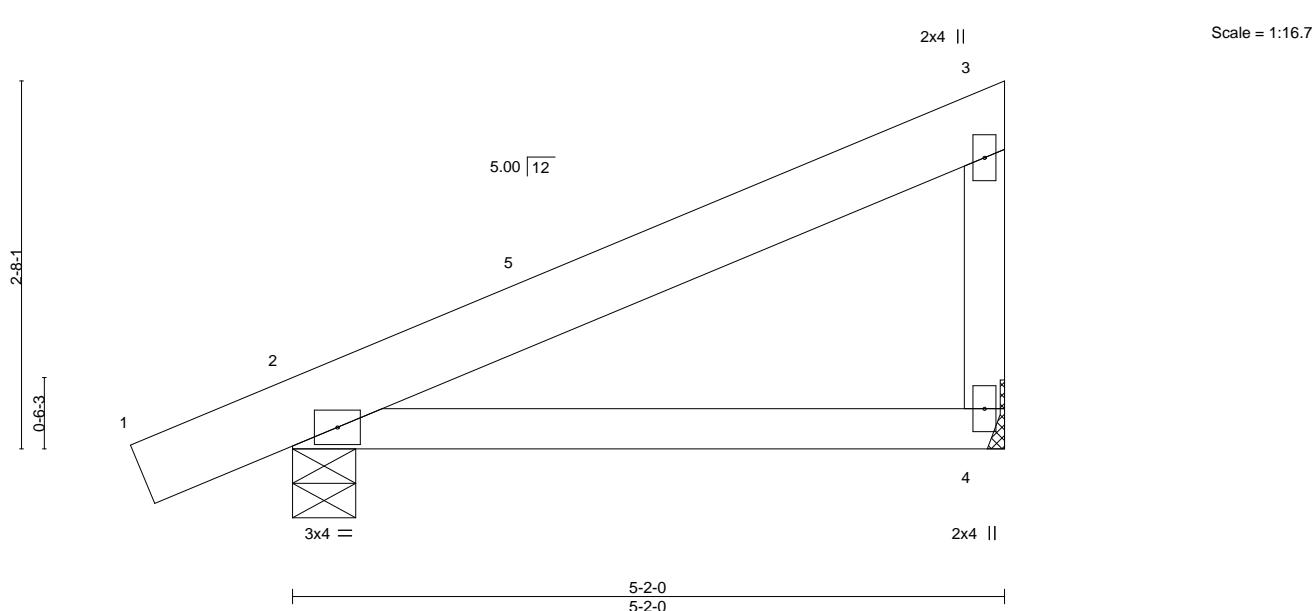
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Job 24-1180-E	Truss M400	Truss Type MONOPITCH	Qty 28	Ply 1	4-Plex-A - Farmhouse-Roof	R85443206
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5-2-0
5-2-0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.12	Vert(LL)	-0.03	2-4	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.20	Vert(CT)	-0.05	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.04	2-4	>999	240	Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-5-8
Max Horz 2=92(LC 9)
Max Uplift 4=77(LC 12), 2=133(LC 12)
Max Grav 4=166(LC 1), 2=267(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 5-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4 except (jt=lb) 2=133.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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 24-1180-E	Truss M401	Truss Type MONOPITCH	Qty 36	Ply 1	4-Plex-A - Farmhouse-Roof	R85443207
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Madera Comp Az, PHOENIX, AZ - 85043,

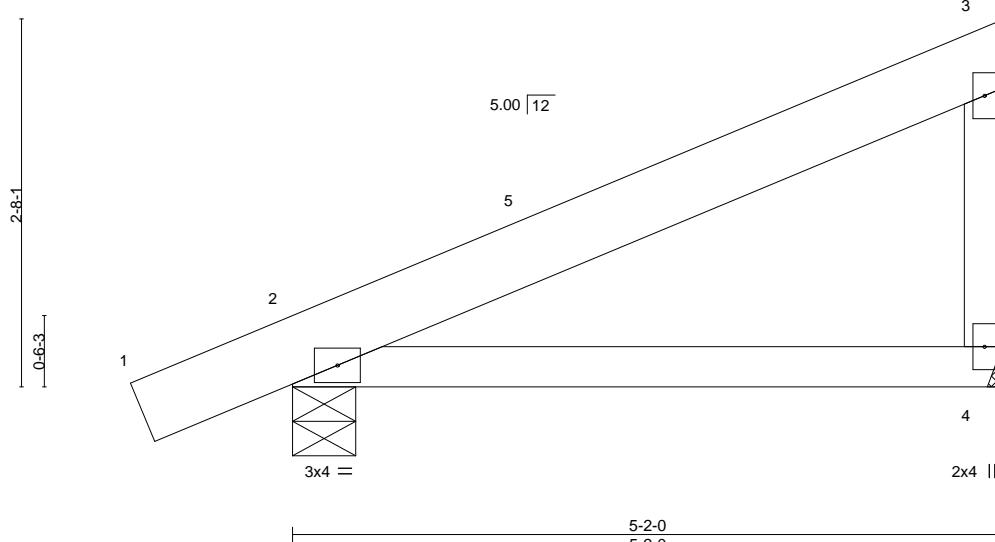
8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:41 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-9fx1vcnldZcLDONV0lh7RwriQd8Rt0r8a2tZ?yyHWC
5-2-0
5-2-0

-1-0-0 1-0-0

2x4 ||

Scale = 1:16.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.12	Vert(LL)	-0.03	2-4	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.20	Vert(CT)	-0.05	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.04	2-4	>999	240	Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-5-8
Max Horz 2=92(LC 9)
Max Uplift 4=77(LC 12), 2=133(LC 12)
Max Grav 4=166(LC 1), 2=267(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 5-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=133.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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

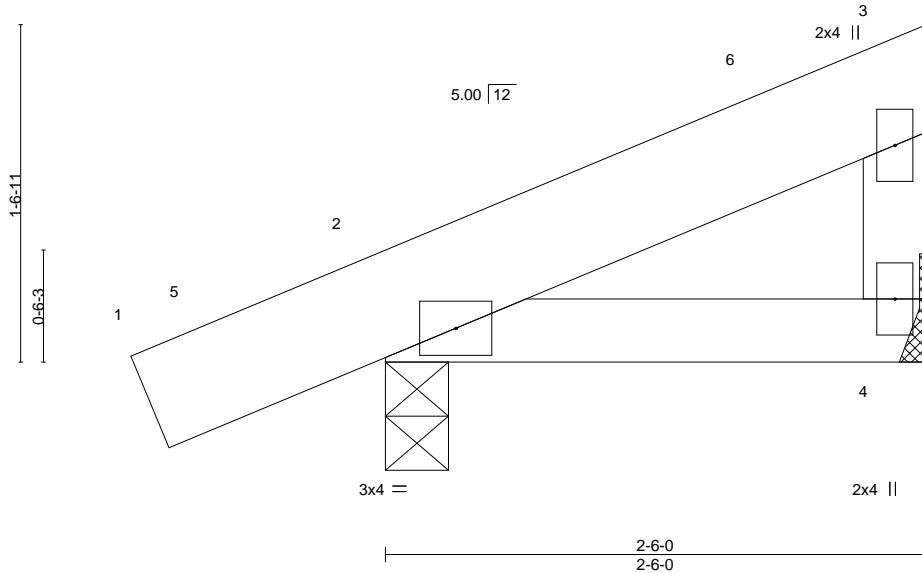
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

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Job 24-1180-E	Truss M402	Truss Type MONOPITCH STRUCTURAL	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443208
Madera Comp Az, PHOENIX, AZ - 85043,					8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:42 2024 Page 1 ID:3mCmX7wpmmbw7h639aarmzZihj-drVP6yoxOskCrYxha0CMz7NuR0XFcT5Hpic7YPyHHWB	

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

Scale = 1:10.6



2-6-0 2-6-0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.04	Vert(LL)	-0.00	2-4	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8
Max Horz 2=48(LC 11)
Max Uplift 4=-11(LC 9), 2=-70(LC 12)
Max Grav 4=61(LC 1), 2=176(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-15, Interior(1) 1-10-15 to 2-4-4 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.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4, 2.
- 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.



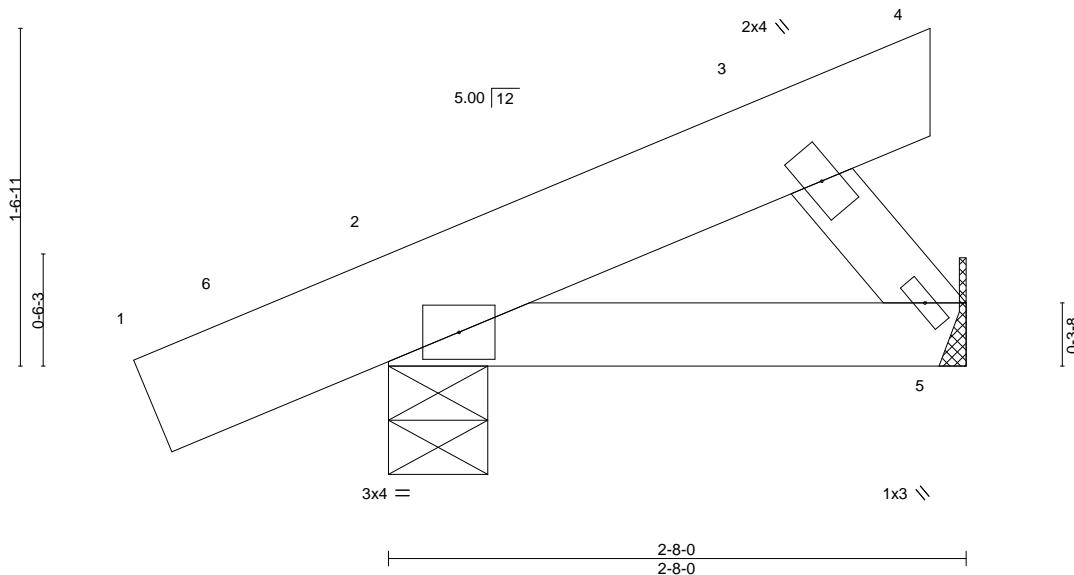
EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute (www.tpiinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 24-1180-E	Truss M405	Truss Type MONOPITCH	Qty 20	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443209	
Madera Comp Az, PHOENIX, AZ - 85043,		8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:42 2024 Page 1 ID:3mCmX7wpmmbw7yh639aarmzzlhj-drVP6yoxOskCrYxha0CMz7Nuf0X5cTXHpic7YPyHHWB					
			-1-0-0 1-0-0	2-0-0 2-0-0	2-6-0 0-6-0	2-8-0 0-2-0	Scale = 1:10.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.03	Vert(LL)	-0.00	2-5	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.00	2-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 5=Mechanical
Max Horz 2=58(LC 12)
Max Uplift 2=67(LC 12), 5=17(LC 12)
Max Grav 2=189(LC 1), 5=60(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-1-1 to 1-10-2, Interior(1) 1-10-2 to 2-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 6) 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.



EXPIRES: Jun 30, 2026
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Job 24-1180-E	Truss M406	Truss Type MONOPITCH SUPPORTED	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443210
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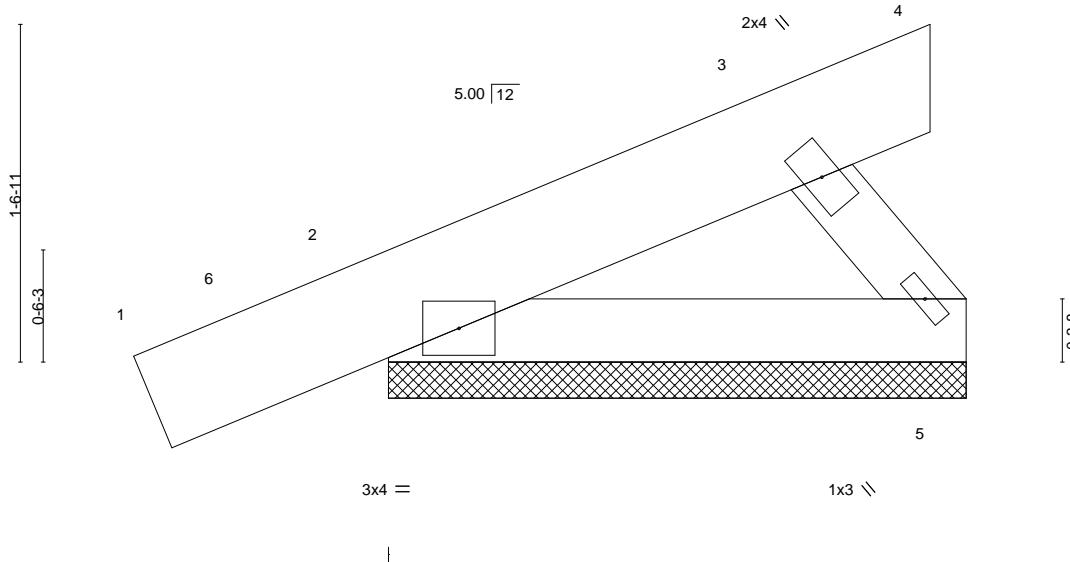
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:43 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-513oKlpZ9As3SiWu8jjbWLw3HQs9LAR2LMg4ryHHWA

-1-0-0 1-0-0 2-0-0 2-0-0 2-6-0 0-6-0 2-8-0 0-2-0

Scale = 1:10.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.04	Vert(LL)	0.00	3	n/r	120	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.00	3	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-8-0, 5=2-8-0
Max Horz 2=58(LC 12)
Max Uplift 2=-56(LC 12), 5=-23(LC 12)
Max Grav 2=175(LC 1), 5=77(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-1-1 to 1-10-2, Exterior(2N) 1-10-2 to 2-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Cable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss M410	Truss Type MONOPITCH	Qty 2	Ply 1	4-Plex-A - Farmhouse-Roof	R85443211
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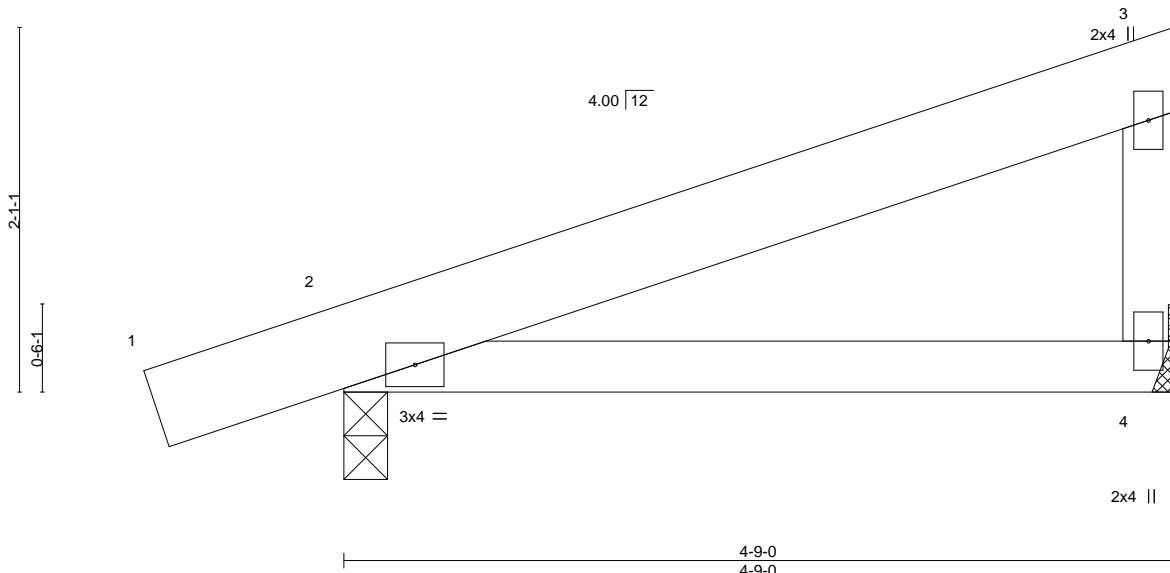
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:43 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-513oKlpZ9As3SiWu8jbWLw2MQqlLwLR2LMg4ryHHWA

-1-0-0 1-0-0 4-9-0 4-9-0

Scale = 1:13.2



4-9-0 4-9-0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.10	Vert(LL)	-0.02	2-4	>999	360	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.04	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.03	2-4	>999	240	Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-0
Max Horz 2=68(LC 9)
Max Uplift 4=72(LC 12), 2=124(LC 12)
Max Grav 4=156(LC 1), 2=247(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 1-0-14 to 1-11-2, Interior(1) 1-11-2 to 4-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4 except (jt=lb) 2=124.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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Job 24-1180-E	Truss M410A	Truss Type HALF HIP	Qty 20	Ply 1	4-Plex-A - Farmhouse-Roof	R85443212
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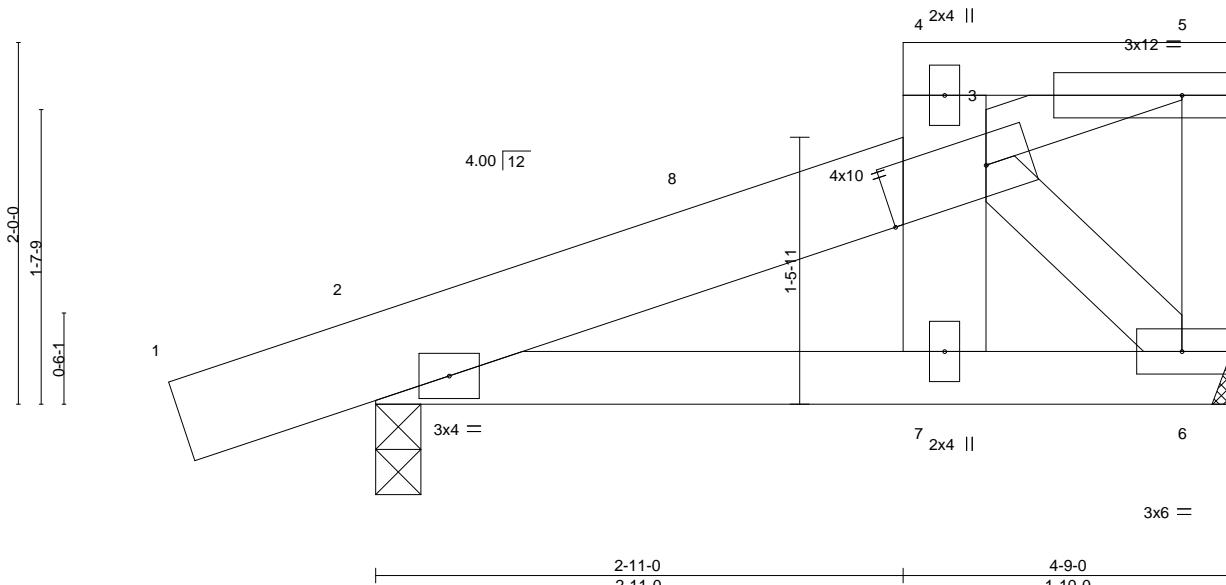
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:43 2024 Page 1

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-1-0-0 1-0-0 2-11-0 2-11-0 4-9-0 1-10-0

Scale = 1:12.7



2-11-0 4-9-0
2-11-0 1-10-0

Plate Offsets (X,Y)-- [3:0-7-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.00	TC 0.11	Vert(LL)	-0.00	2-7	>999	480		
TCDL 14.0	Lumber DOL	1.00	BC 0.22	Vert(CT)	-0.01	2-7	>999	360		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.01	7	>999	240	Weight: 22 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E *Except*
4-5: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std *Except*
4-7: 2x6 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-0 oc purlins,
except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-3-0
Max Horz 2=73(LC 9)
Max Uplift 2=17(LC 8)
Max Grav 6=756(LC 17), 2=474(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-777/85, 3-4=-880/45
BOT CHORD 2-7=-95/807, 6-7=-92/748
WEBS 3-6=-953/91

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-14 to 1-11-2, Interior(1) 1-11-2 to 3-1-12, Exterior(2E) 3-1-12 to 4-7-4 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
- Provide adequate drainage to prevent water ponding.
- Roof live (Construction) load check assumes a transverse pitch of 6.00 / 12 on flat section(s).
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 2.
- 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) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified.
Building designer must review loads to verify that they are correct for the intended use of this truss.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Continued on page 2

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

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



EXPIRES: Jun 30, 2026

November 20, 2024

MiTek
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss M410A	Truss Type HALF HIP	Qty 20	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443212
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:43 2024 Page 2

ID:3mCmX7wpmmbw7h639aarmzZihj-513oKlpZ9As3SiWu8jbLw27QpZLttR2LMg4ryHHWA

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 4-5=-204, 2-6=-14

Concentrated Loads (lb)

Vert: 4=-592

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-3=-52, 4-5=-184, 2-6=-14

Concentrated Loads (lb)

Vert: 4=-549

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-28, 4-5=-124, 2-6=-34

Concentrated Loads (lb)

Vert: 4=-527

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=68, 2-8=57, 3-8=39, 4-5=-39, 2-6=-8

Horz: 1-2=-80, 2-8=-69, 3-8=-51, 3-4=11, 5-6=42

Concentrated Loads (lb)

Vert: 4=73

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=33, 2-3=39, 4-5=-39, 2-6=-8

Horz: 1-2=-45, 2-3=-51, 3-4=-71, 5-6=-27

Concentrated Loads (lb)

Vert: 4=73

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-5, 2-3=-57, 4-5=-153, 2-6=-14

Horz: 1-2=-23, 2-3=29, 3-4=71, 5-6=30

Concentrated Loads (lb)

Vert: 4=-768

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-57, 4-5=-153, 2-6=-14

Horz: 1-2=-23, 2-3=29, 3-4=-11, 5-6=-39

Concentrated Loads (lb)

Vert: 4=-574

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=32, 2-3=16, 4-5=-66, 2-6=-8

Horz: 1-2=-44, 2-3=-28, 3-4=-12, 5-6=20

Concentrated Loads (lb)

Vert: 4=-76

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=5, 2-3=11, 4-5=-66, 2-6=-8

Horz: 1-2=-17, 2-3=-23, 3-4=-28, 5-6=-16

Concentrated Loads (lb)

Vert: 4=-76

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-23, 2-3=29, 4-5=-125, 2-6=-14

Horz: 1-2=-5, 2-3=1, 3-4=34, 5-6=8

Concentrated Loads (lb)

Vert: 4=-571

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-11, 2-3=-17, 4-5=-125, 2-6=-14

Horz: 1-2=-17, 2-3=-11, 3-4=-5, 5-6=-28

Concentrated Loads (lb)

Vert: 4=-451

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=36, 2-3=20, 4-5=-76, 2-6=-8

Horz: 1-2=-48, 2-3=-32, 3-4=-38, 5-6=25

Concentrated Loads (lb)

Vert: 4=-129

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=25, 2-3=8, 4-5=-88, 2-6=-8

Horz: 1-2=-37, 2-3=-20, 3-4=-26, 5-6=25

Concentrated Loads (lb)

Vert: 4=-192

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

 **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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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss M410A	Truss Type HALF HIP	Qty 20	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443212
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:43 2024 Page 3

ID:3mCmX7wpmmbw7h639aarmzZihj-513oKlpZ9As3SiWu8jjbWLw27QpZLttR2LMg4ryHHWA

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-23, 2-3=-29, 4-5=-125, 2-6=-14

Horz: 1-2=-5, 2-3=1, 3-4=7, 5-6=14

Concentrated Loads (lb)

Vert: 4=-556

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-23, 2-3=-29, 4-5=-125, 2-6=-14

Horz: 1-2=-5, 2-3=1, 3-4=7, 5-6=14

Concentrated Loads (lb)

Vert: 4=-556

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-3=-28, 4-5=-124, 2-6=-14

Concentrated Loads (lb)

Vert: 4=-419

17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-48, 2-3=-53, 4-5=-185, 2-6=-14

Horz: 1-2=-4, 2-3=1, 3-4=25, 5-6=6

Concentrated Loads (lb)

Vert: 4=-663

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-40, 2-3=-44, 4-5=-185, 2-6=-14

Horz: 1-2=-12, 2-3=-8, 3-4=-4, 5-6=-21

Concentrated Loads (lb)

Vert: 4=-573

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-48, 2-3=-53, 4-5=-185, 2-6=-14

Horz: 1-2=-4, 2-3=1, 3-4=5, 5-6=10

Concentrated Loads (lb)

Vert: 4=-651

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-48, 2-3=-53, 4-5=-185, 2-6=-14

Horz: 1-2=-4, 2-3=1, 3-4=5, 5-6=10

Concentrated Loads (lb)

Vert: 4=-651

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-3=-28, 4-5=-124, 2-6=-8

Horz: 1-2=-16, 2-3=16, 3-4=16, 5-6=16

Concentrated Loads (lb)

Vert: 4=-302

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=4, 4-5=-92, 2-6=-8

Horz: 1-3=-16, 3-4=16, 5-6=16

Concentrated Loads (lb)

Vert: 4=-302

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-3=-60, 4-5=-204, 2-6=-14

Concentrated Loads (lb)

Vert: 4=-592

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-3=-28, 4-5=-204, 2-6=-14

Concentrated Loads (lb)

Vert: 4=-592

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-3=-52, 4-5=-184, 2-6=-14

Concentrated Loads (lb)

Vert: 4=-549

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-3=-28, 4-5=-184, 2-6=-14

Concentrated Loads (lb)

Vert: 4=-549

 **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/TP1 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.sbcsccomponents.com)

Job 24-1180-E	Truss M411	Truss Type MONOPITCH	Qty 8	Ply 1	4-Plex-A - Farmhouse-Roof	R85443213
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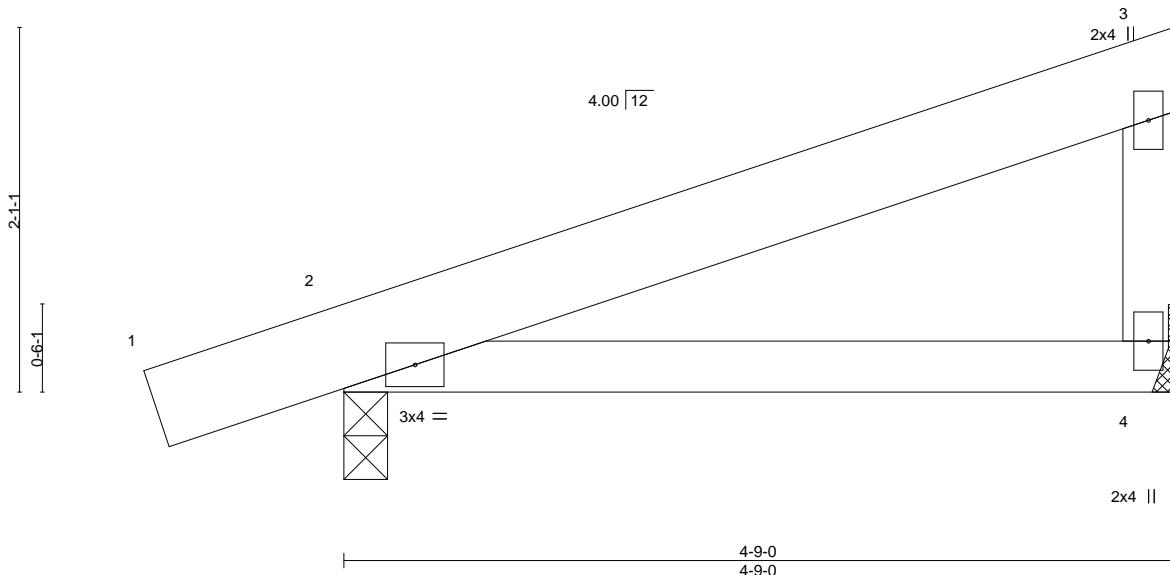
Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:44 2024 Page 1

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-1-0-0 4-9-0
1-0-0 4-9-0

Scale = 1:13.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.10	Vert(LL) -0.02 2-4 >999 360	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.17	Vert(CT) -0.04 2-4 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 4 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.03 2-4 >999 240	Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-0
Max Horz 2=68(LC 9)
Max Uplift 4=72(LC 12), 2=124(LC 12)
Max Grav 4=156(LC 1), 2=247(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 1-0-14 to 1-11-2, Interior(1) 1-11-2 to 4-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4 except ($j_t=lb$) $2=124$.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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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MiTek[®]
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss M415	Truss Type MONOPITCH	Qty 5	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443214
Madera Comp Az,	PHOENIX, AZ - 85043,					
			-1-0-0 1-0-0	2-2-0 2-2-0	2-6-0 0-4-0	2-8-0 0-2-0
						8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:44 2024 Page 1 ID:3mCmX7wpmbwy7h639aarmzZihj-ZEdAxeqBwU_v4s54hREq3YTEAqCa4N7aG?5EcHyHHW9
						Scale = 1:9.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.03	Vert(LL)	-0.00	2-5	>999	360	
TCDL 14.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.00	2-5	>999	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	5	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 11 lb FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 5=Mechanical
Max Horz 2=45(LC 12)
Max Uplift 2=69(LC 12), 5=12(LC 12)
Max Grav 2=187(LC 1), 5=61(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-14 to 2-0-5, Interior(1) 2-0-5 to 2-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 6) 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.



EXPIRES: Jun 30, 2026
November 20,2024

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

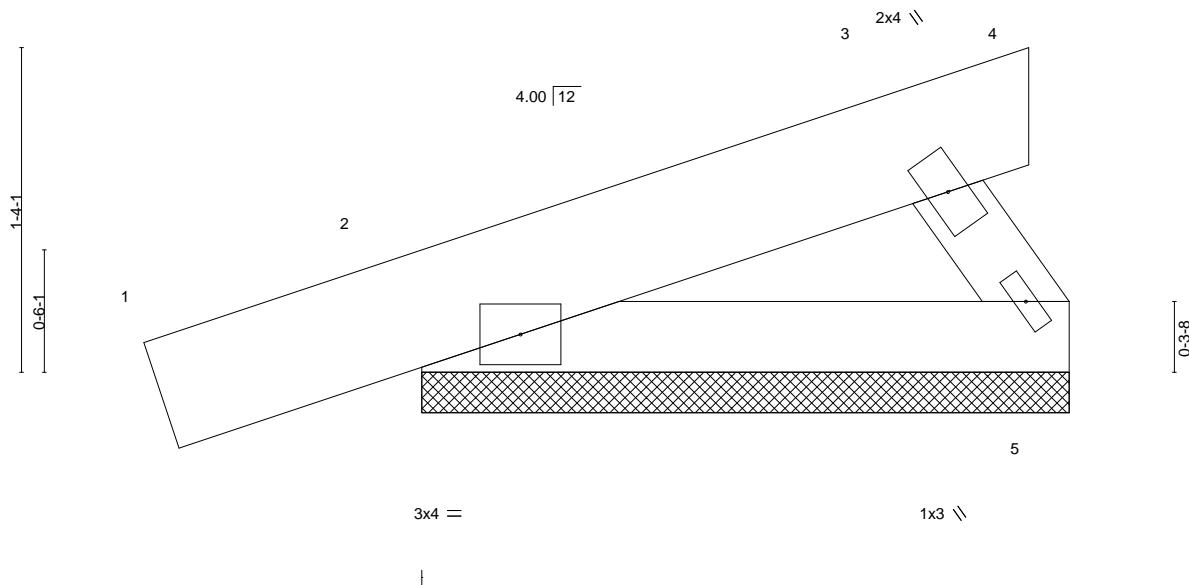
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

Job 24-1180-E	Truss M416	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443215
Madera Comp Az,	PHOENIX, AZ - 85043,				Job Reference (optional)	

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:45 2024 Page 1
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-1-0-0 1-0-0 2-2-0 2-2-0 2-6-0 0-4-0 2-8-0 0-2-0

Scale = 1:9.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.03	Vert(LL) 0.00 in (loc) 3 n/r 120	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.06	Vert(CT) 0.00 in (loc) 3 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) -0.00 in (loc) 5 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P		Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-8-0, 5=2-8-0
Max Horz 2=45(LC 12)
Max Uplift 2=57(LC 12), 5=18(LC 12)
Max Grav 2=173(LC 1), 5=77(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-14 to 2-0-5, Exterior(2N) 2-0-5 to 2-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Cable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 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.



EXPIRES: Jun 30, 2026
November 20, 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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

Job 24-1180-E	Truss V100	Truss Type GABLE	Qty 2	Ply 1	4-Plex-A - Farmhouse-Roof	R85443216
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Madera Comp Az, PHOENIX, AZ - 85043,

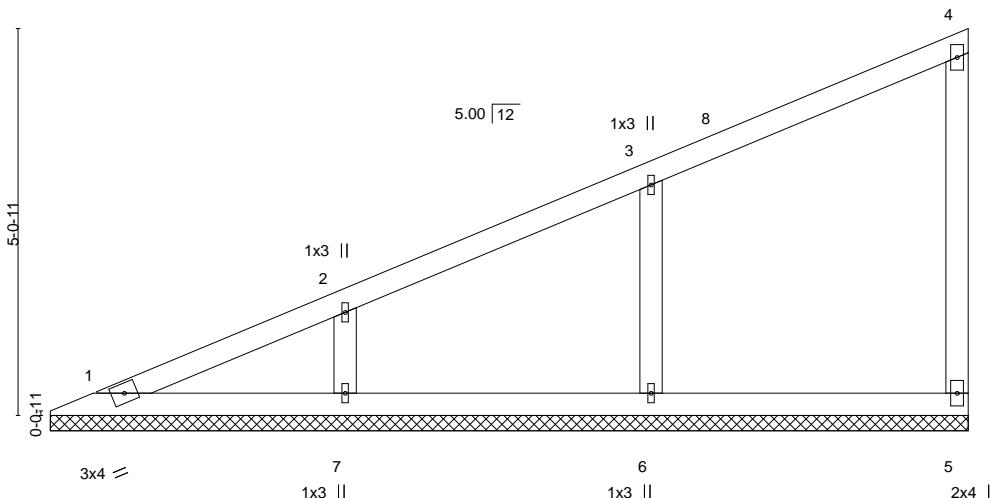
8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:45 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-1QAYk_qphn6mi0gGF8l3bm?K4EX5ppPkVfrn8kyHHW8

12'-0" 12'-0"

2x4 ||

Scale = 1:30.1



3x4 <= 7 6 5
1x3 || 1x3 || 2x4 ||

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.34	Vert(LL)	n/a	-	n/a	999	
TCDL 14.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	n/a	-	n/a	999	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S						Weight: 37 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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.

- All bearings 12'-0-0.
(lb) - Max Horz 1=182(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=325(LC 1), 7=290(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=291/181
WEBS 3-6=265/213

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-11-15, Interior(1) 3-11-15 to 11-11-15 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 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.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpiinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

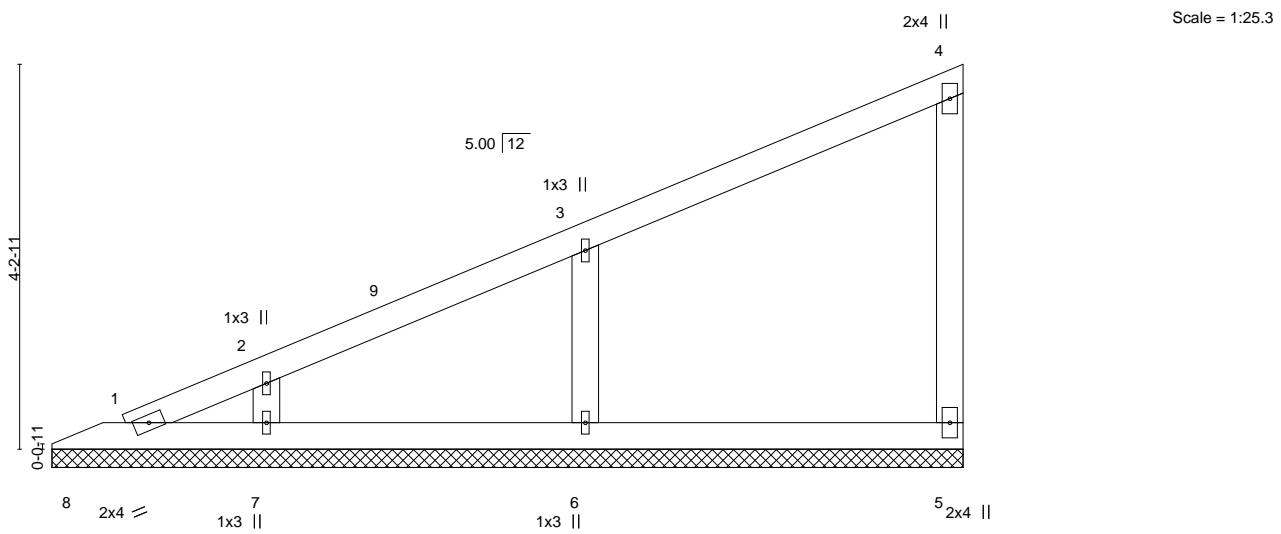
MiTek
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss V101	Truss Type GABLE	Qty 6	Ply 1	4-Plex-A - Farmhouse-Roof	R85443217
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:45 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-1QAYk_qphn6mi0gGF8l3bm?MZEX9ppQkVfrn8kyHHW8
10-0-0
10-0-0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.24	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S						Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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.

- All bearings 10-0-0.
(lb) - Max Horz 8=150(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8, 7 except 6=317(LC 1)

FORCES.

- (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 1-8=291/200
WEBS 3-6=258/213

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-11-6 to 3-11-6, Interior(1) 3-11-6 to 9-11-15 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 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.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DS-B-22](#) available from Truss Plate Institute (www.tpiinst.org) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association (www.sbcsccomponents.com)

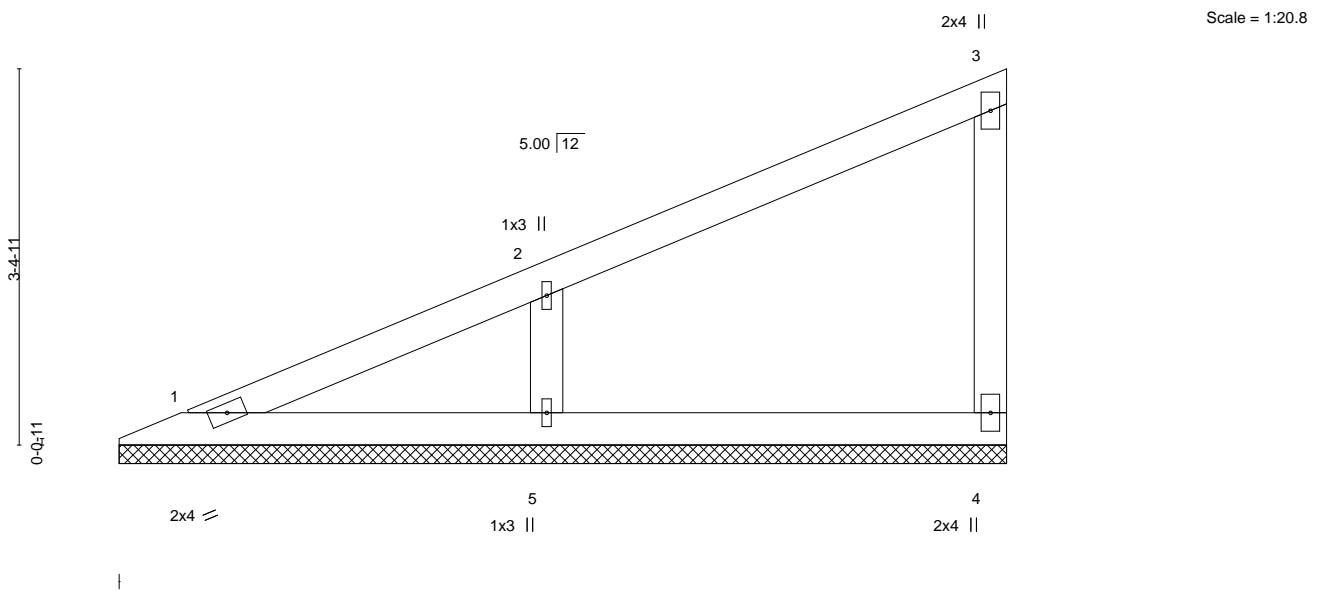
MiTek
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss V102	Truss Type GABLE	Qty 2	Ply 1	4-Plex-A - Farmhouse-Roof	R85443218
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:46 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-VckwyKrRS5EdJAJTpsGl8zYXetHYGTlkJaKhAyHW7
8-0-0
8-0-0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 1=8-0-0, 4=8-0-0, 5=8-0-0
Max Horz 1=118(LC 9)
Max Uplift 4=-20(LC 9), 5=-79(LC 12)
Max Grav 1=85(LC 18), 4=117(LC 1), 5=337(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-5=-273/242

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-3 to 3-11-15, Interior(1) 3-11-15 to 7-11-15 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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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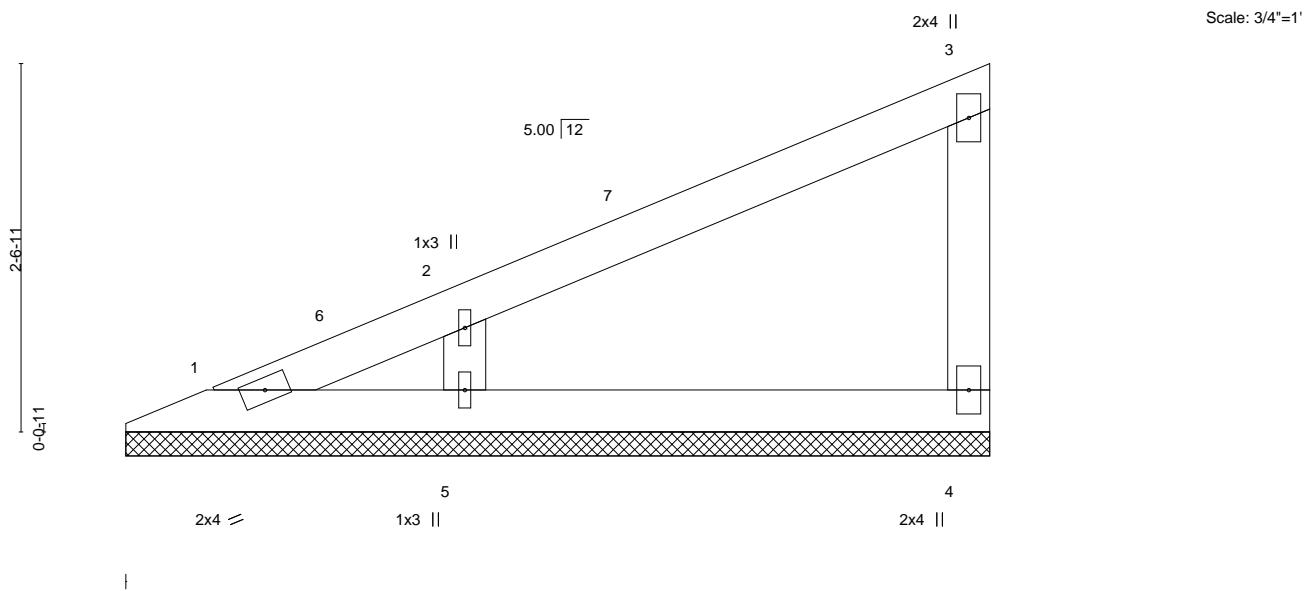
Job 24-1180-E	Truss V103	Truss Type GABLE	Qty 2	Ply 1	4-Plex-A - Farmhouse-Roof	R85443219
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:46 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-VckwyKrRS5EdJATpsGl8zYZHetjYGTtkJaKhAyHHW7

6-0-0
6-0-0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.12	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 1=6-0-0, 4=6-0-0, 5=6-0-0
Max Horz 1=85(LC 11)
Max Uplift 4=-16(LC 9), 5=-62(LC 12)
Max Grav 1=29(LC 18), 4=105(LC 1), 5=267(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-11-15 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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.



EXPIRES: Jun 30, 2026
November 20, 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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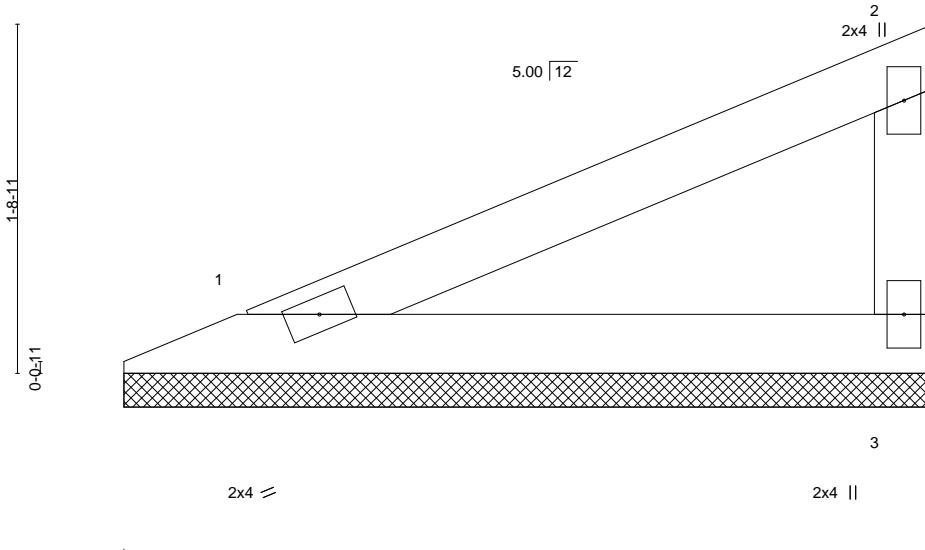
Job 24-1180-E	Truss V104	Truss Type Valley	Qty 2	Ply 1	4-Plex-A - Farmhouse-Roof	R85443220
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:47 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-zplI9gs3DPMUxJqfNZoXgB5jX1DfHkK1yzKuDcyHHW6
4-0-0
4-0-0

Scale = 1:11.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 10 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-0-0, 3=4-0-0
Max Horz 1=53(LC 11)
Max Uplift 1=17(LC 12), 3=21(LC 12)
Max Grav 1=120(LC 1), 3=120(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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 24-1180-E	Truss V105	Truss Type Valley	Qty 2	Ply 1	4-Plex-A - Farmhouse-Roof	R85443221
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Madera Comp Az, PHOENIX, AZ - 85043,

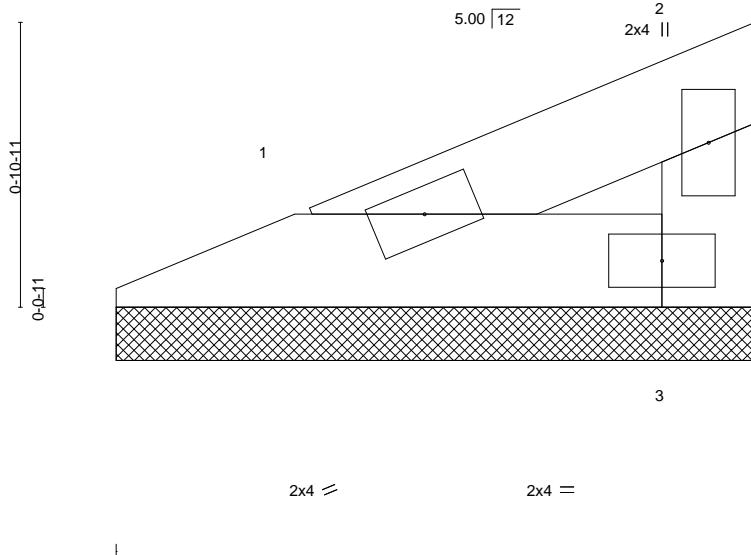
8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:47 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZlhj-zplI9gs3DPMUxJqfNzoXgB5lW1ErHkK1yzKuDcyHHW6

2-0-0

2-0-0

Scale = 1:7.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.02	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 4 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 HF/SPF Stud/Std

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-1-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-0-0, 3=2-0-0
 Max Horz 1=21(LC 11)
 Max Uplift 1=6(LC 12), 3=8(LC 12)
 Max Grav 1=46(LC 1), 3=46(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



EXPIRES: Jun 30, 2026
 November 20, 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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

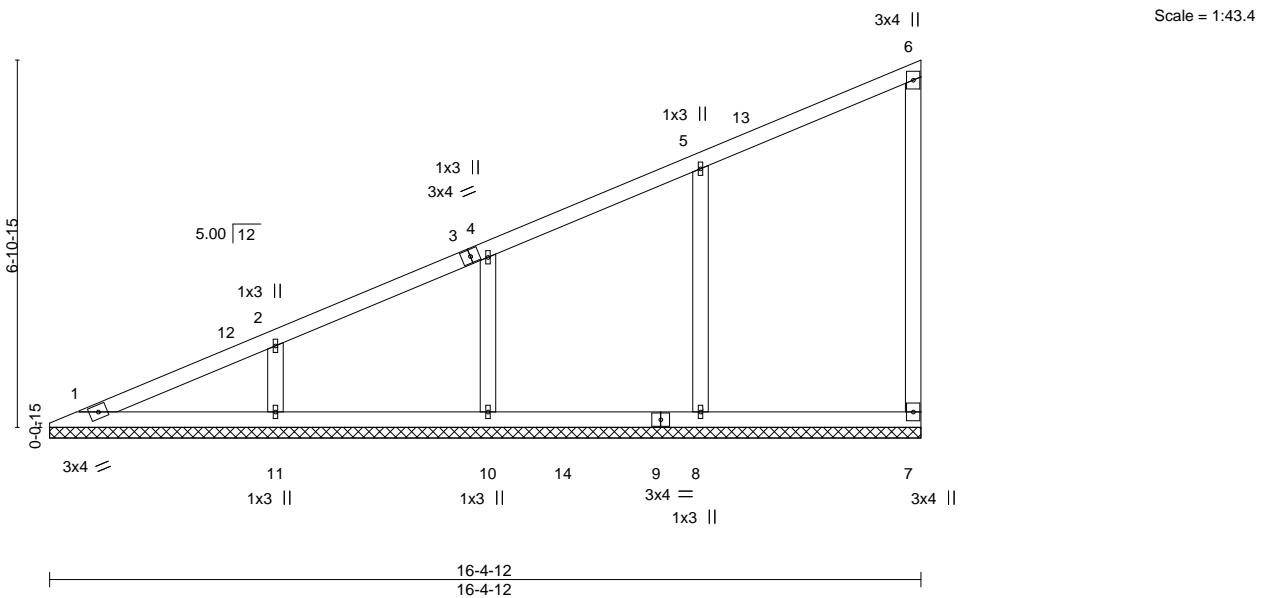
MiTek®
 400 Sunrise Ave., Suite 270
 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss V400	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443222
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:48 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-R?shN?th_iULZTPwGJmDOdmJRYw09RABd3RI3yHHW5
16-4-12
16-4-12



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.66	Vert(LL)	n/a	-	n/a	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	7	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S				n/a	Weight: 56 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 HF/SPF Stud/Std		
OTHERS	2x4 HF/SPF Stud/Std		

REACTIONS.

- All bearings 16-4-12.
(lb) - Max Horz 1=254(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 10, 11
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 8=439(LC 17), 10=330(LC 17), 11=364(LC 17)

FORCES.

- (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=373/228, 2-4=295/193
WEBS 5-8=266/192, 2-11=255/165

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 16-5-5 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8, 10, 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.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DS-B-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

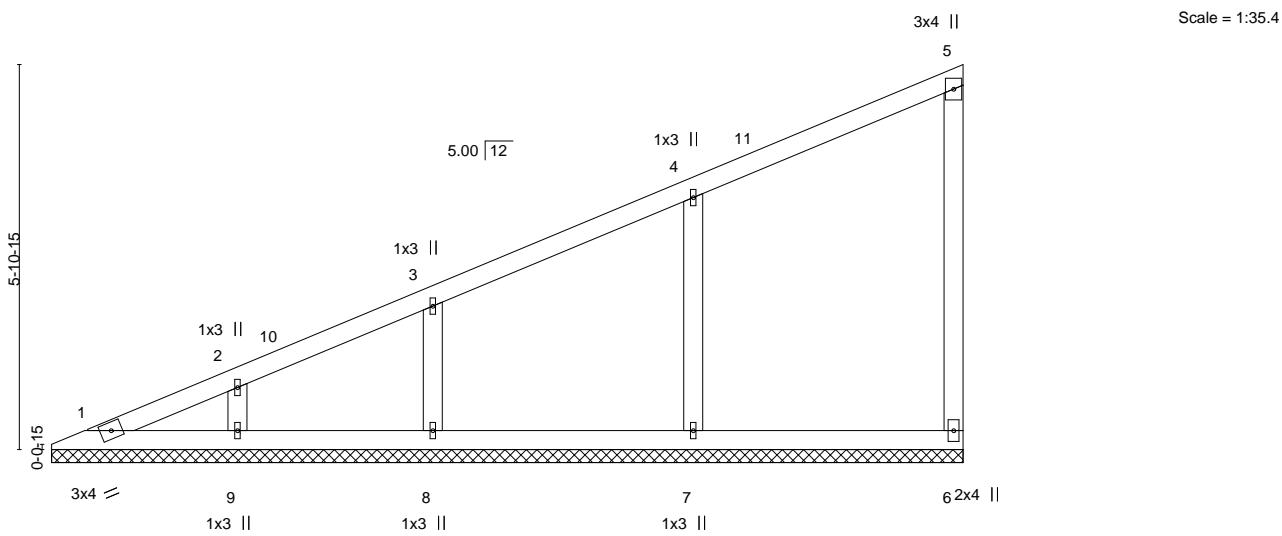
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Roseville, CA 95661
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Job 24-1180-E	Truss V401	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443223
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:48 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-R?shN?th_iULZTPrwGJmDOdpBRYB0A4ABd3RI3yHHW5
14-0-0
14-0-0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	n/a	-	n/a	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	6	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S				n/a	Weight: 46 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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. All bearings 14-0-0.

- (lb) - Max Horz 1=216(LC 11)
- Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 8, 9
- Max Grav All reactions 250 lb or less at joint(s) 1, 6, 9 except 7=414(LC 17), 8=285(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-340/202, 2-3=-285/181

WEBS 4-7=-270/206

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 14-0-9 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7, 8, 9.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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

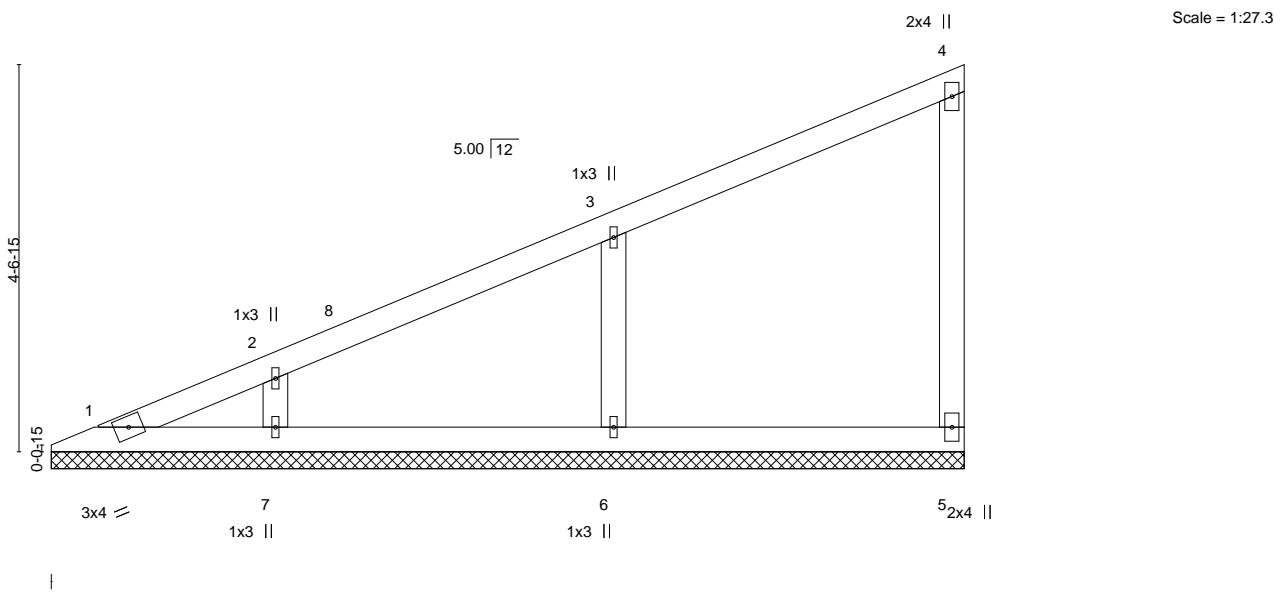
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI1 Quality Criteria and DS-B-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

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Job 24-1180-E	Truss V402	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443224
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:49 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-wBQ3aLtKk0cCBd_2U_q?icA19rvldPJQH?HvYHHW4
10-9-9
10-9-9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.27	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S						Weight: 33 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 HF/SPF Stud/Std	
OTHERS 2x4 HF/SPF Stud/Std	

REACTIONS.

- All bearings 10-9-9.
(lb) - Max Horz 1=164(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 6=333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=258/168
WEBS 3-6=271/212

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 10-10-2 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
 3) Gable requires continuous bottom chord bearing.
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 7.
 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.



EXPIRES: Jun 30, 2026
November 20,2024

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

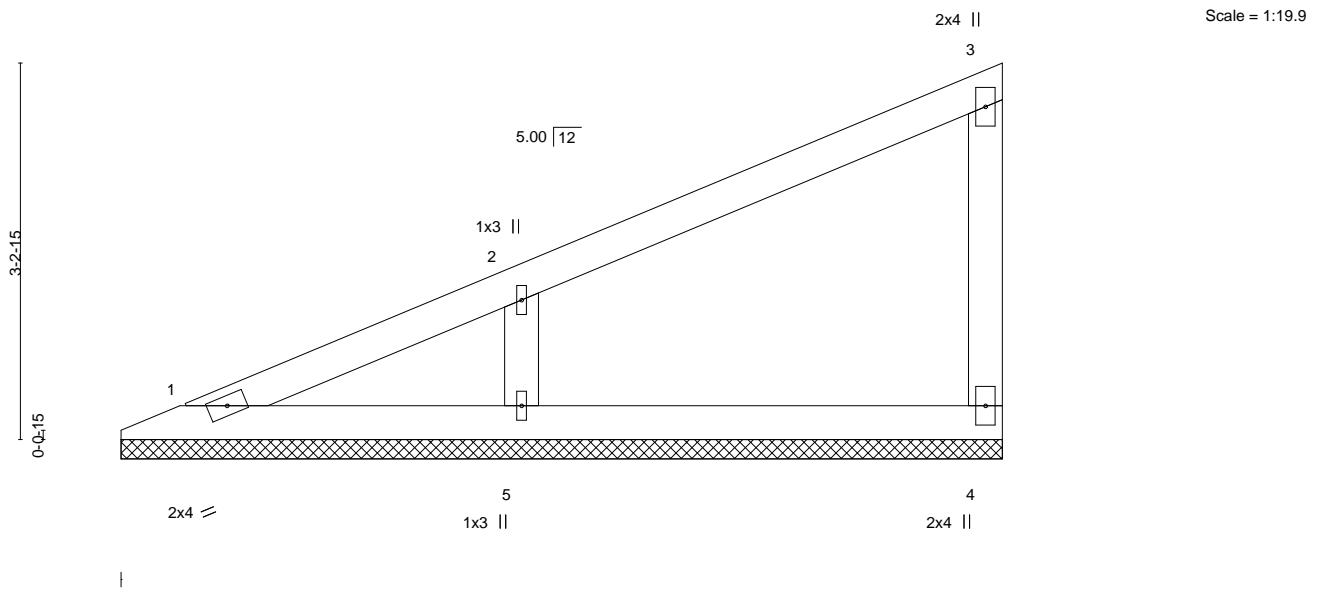
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI1 Quality Criteria and DS-B-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

Job 24-1180-E	Truss V403	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443225
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:49 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-wBQ3aLkK0cCBd_2U_q?lcA3Trv2ldCJQH?HvyHHW4
7-7-3
7-7-3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 HF/SPF Stud/Std	
OTHERS 2x4 HF/SPF Stud/Std	

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

Max Horz 1=112(LC 9)

Max Uplift 4=-19(LC 9), 5=-76(LC 12)

Max Grav 1=73(LC 18), 4=119(LC 1), 5=325(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-5=-264/242

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-7-12, Interior(1) 3-7-12 to 7-7-12 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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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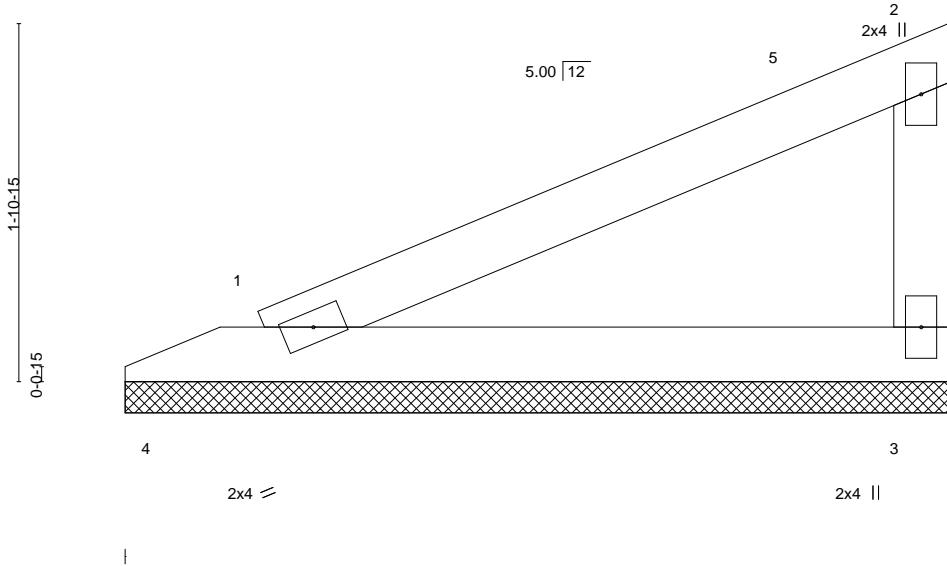
Job 24-1180-E	Truss V404	Truss Type Valley	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443226
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:49 2024 Page 1

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4-4-12
4-4-12

Scale = 1:12.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-4-12, 3=4-4-12, 4=4-4-12
Max Horz 4=60(LC 11)
Max Uplift 3=26(LC 12), 4=85(LC 3)
Max Grav 1=224(LC 3), 3=124(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-11-4 to 3-11-4, Interior(1) 3-11-4 to 4-5-5 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Cable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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.



EXPIRES: Jun 30, 2026
November 20,2024

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

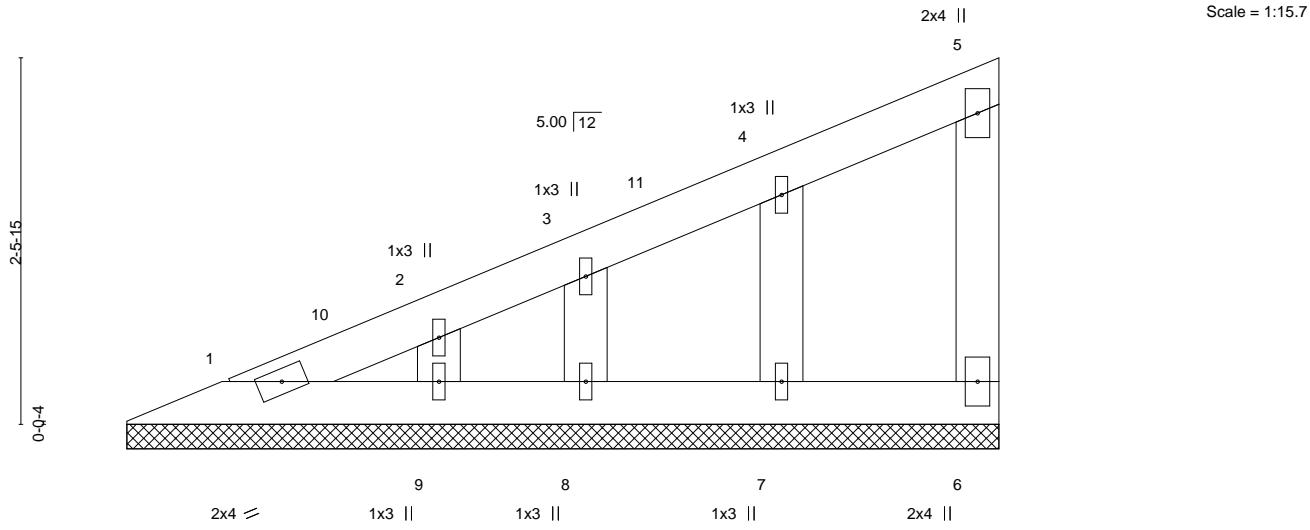
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

Job 24-1180-E	Truss V410	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443227
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:50 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-OO_RohuyVKk3onZE2hLElpEqFFXU5NTfxYYqxyHHW3
5-11-4
5-11-4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	6	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P				n/a	Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	
WEBS 2x4 HF/SPF Stud/Std	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 HF/SPF Stud/Std	

REACTIONS.

All bearings 5-11-4.

(lb) - Max Horz 1=83(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 8, 9

Max Grav All reactions 250 lb or less at joint(s) 1, 6, 7, 8, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-10-2 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7, 8, 9.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

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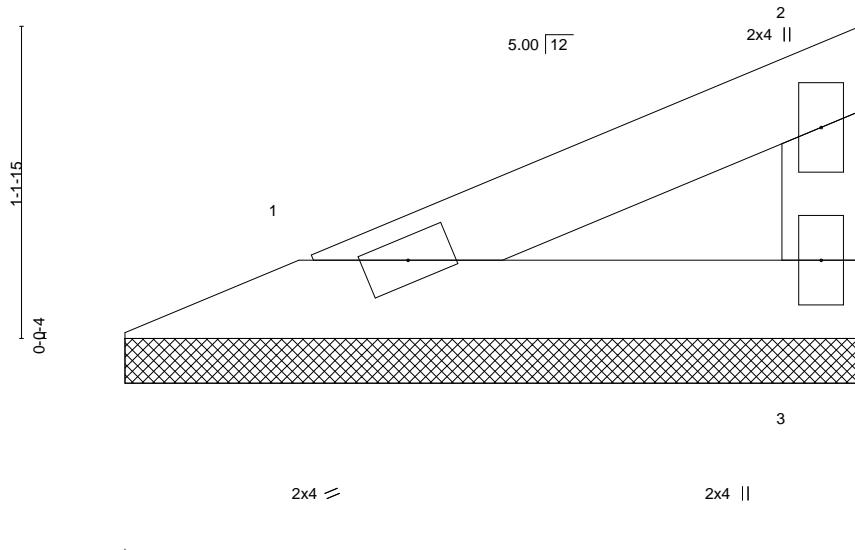
Job 24-1180-E	Truss V411	Truss Type Valley	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443228
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:50 2024 Page 1

ID:3mCmX7wpmmby7h639aarmzZihj-OO_RohuyVKk3onZE2hLElpjFMFFIU54TfxYYqxyHHW3
2-8-14
2-8-14

Scale = 1:8.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 6 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-8-14, 3=2-8-14
Max Horz 1=31(LC 9)
Max Uplift 1=10(LC 12), 3=12(LC 12)
Max Grav 1=70(LC 1), 3=70(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



EXPIRES: Jun 30, 2026
November 20, 2024

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

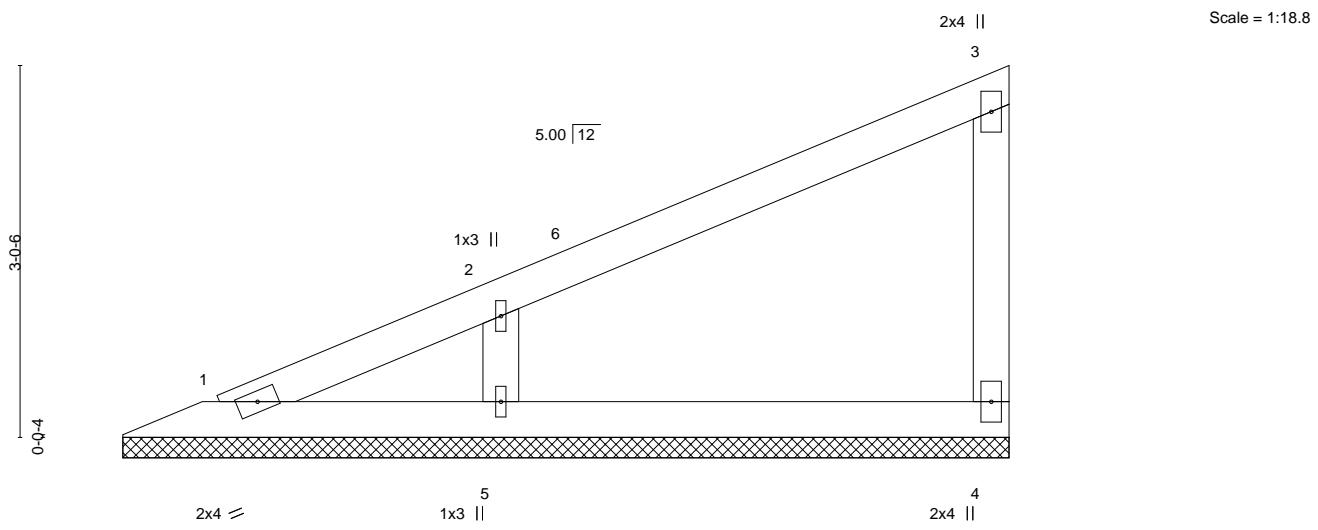
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

Job 24-1180-E	Truss V420	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443229
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:51 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZih-saYp?1vaGdswQx8QcPsUr1FOKfaXDWhctbI5MNyHHW2
7-2-12
7-2-12



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	n/a	-	n/a	999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 1=7-2-12, 4=7-2-12, 5=7-2-12
Max Horz 1=104(LC 9)
Max Uplift 4=-19(LC 9), 5=-73(LC 12)
Max Grav 1=49(LC 18), 4=120(LC 1), 5=309(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-5=-251/245

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-10-1 to 3-10-1, Interior(1) 3-10-1 to 7-1-10 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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 24-1180-E	Truss V421	Truss Type VALLEY	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443230
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Madera Comp Az, PHOENIX, AZ - 85043,

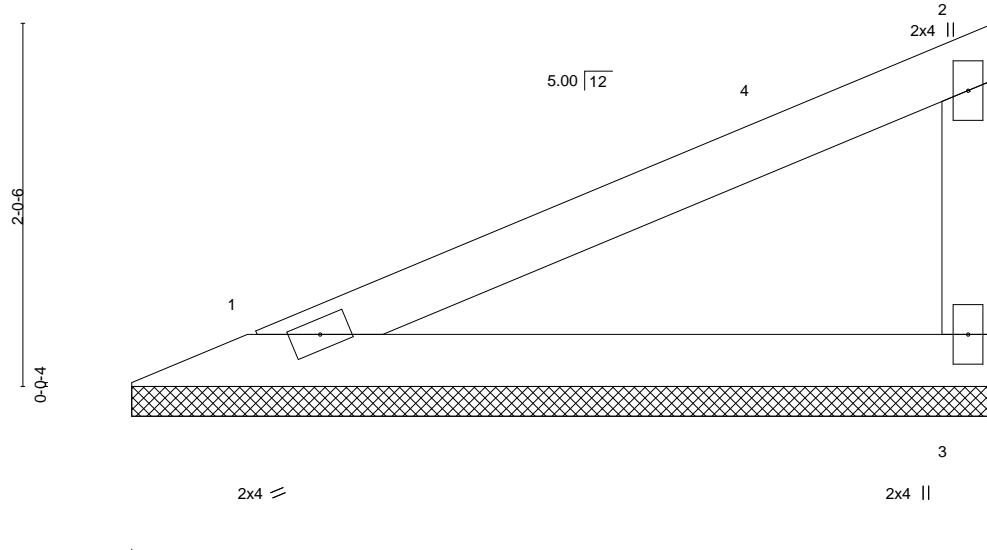
8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:51 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-saYp?1vaGdswQx8QcPsUr1FNDfZqDXKctbl5MNyHHW2

4-9-15

4-9-15

Scale = 1:12.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.23	Vert(LL)	n/a	-	999	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.14	Vert(CT)	n/a	-	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P				n/a	Weight: 12 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 HF/SPF Stud/Std

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-10-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-9-15, 3=4-9-15
 Max Horz 1=65(LC 9)
 Max Uplift 1=21(LC 12), 3=26(LC 12)
 Max Grav 1=147(LC 1), 3=147(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 4-8-13 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Cable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



EXPIRES: Jun 30, 2026
 November 20,2024

 **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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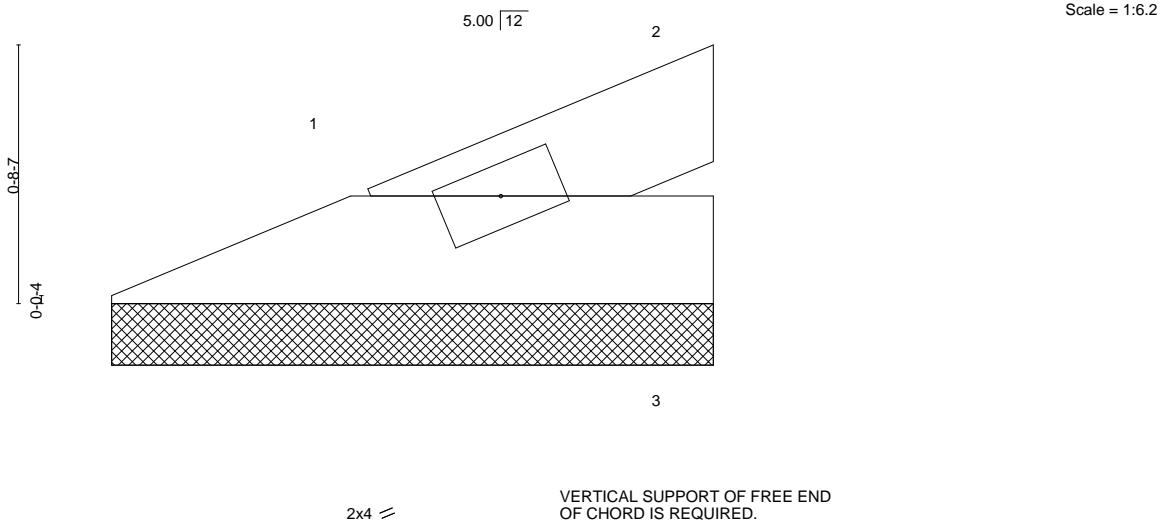
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Job 24-1180-E	Truss V422	Truss Type VALLEY	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443231
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:51 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-saYp?1vaGdswQx8QcPsUr1FQgfbDXKctbl5MNyHHW2
1-7-9
1-7-9



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.01	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 14.0	Lumber DOL 1.25	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P						Weight: 3 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-8-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=1-7-9, 2=1-7-9, 3=1-7-9
Max Horz 1=13(LC 12)
Max Uplift 1=3(LC 12), 2=-12(LC 12)
Max Grav 1=34(LC 1), 2=28(LC 1), 3=16(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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

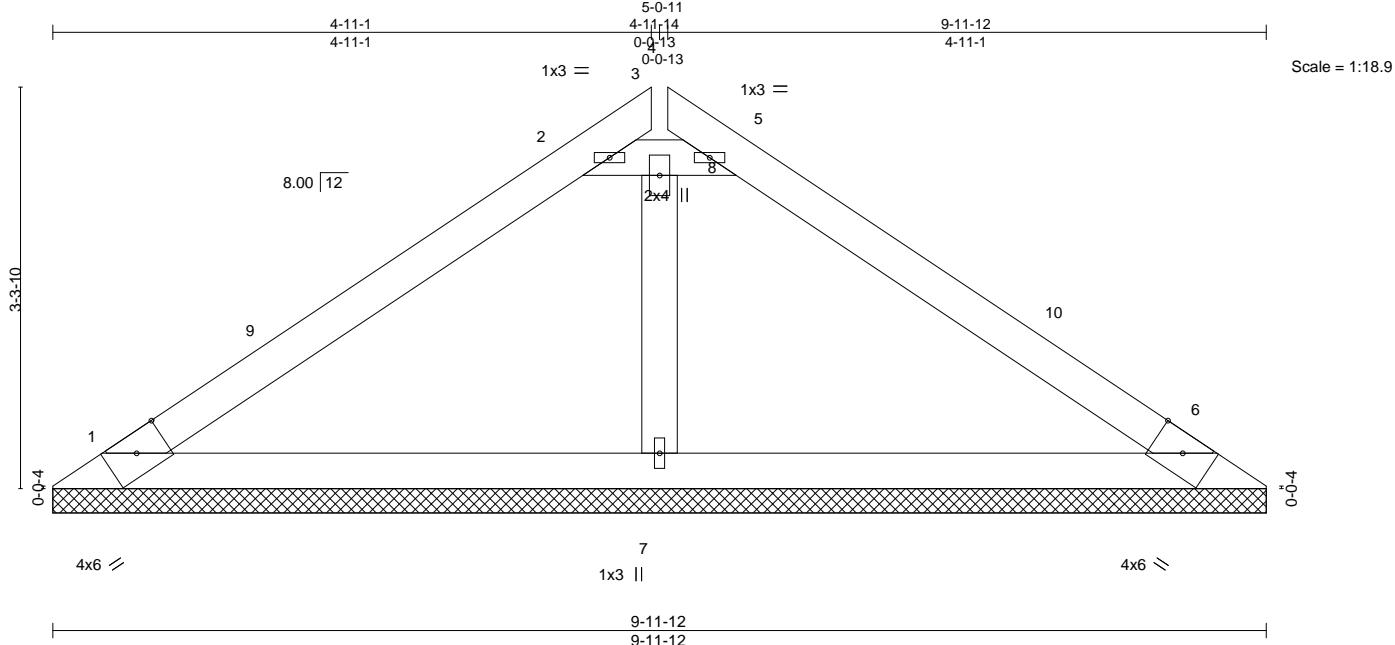
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Job 24-1180-E	Truss V430	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443232
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:52 2024 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.29	Vert(LL) -0.09 4-5 n/r 120	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.38	Vert(CT) -0.08 4-5 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.00 6 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-S		Weight: 28 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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=9-11-12, 6=9-11-12, 7=9-11-12

Max Horz 1=66(LC 10)

Max Uplift 1=51(LC 12), 6=51(LC 12), 7=22(LC 12)

Max Grav 1=202(LC 1), 6=202(LC 1), 7=272(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-11-7, Exterior(2R) 5-1-1 to 8-1-1, Interior(1) 8-1-1 to 9-6-11 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 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.



EXPIRES: Jun 30, 2026
November 20,2024

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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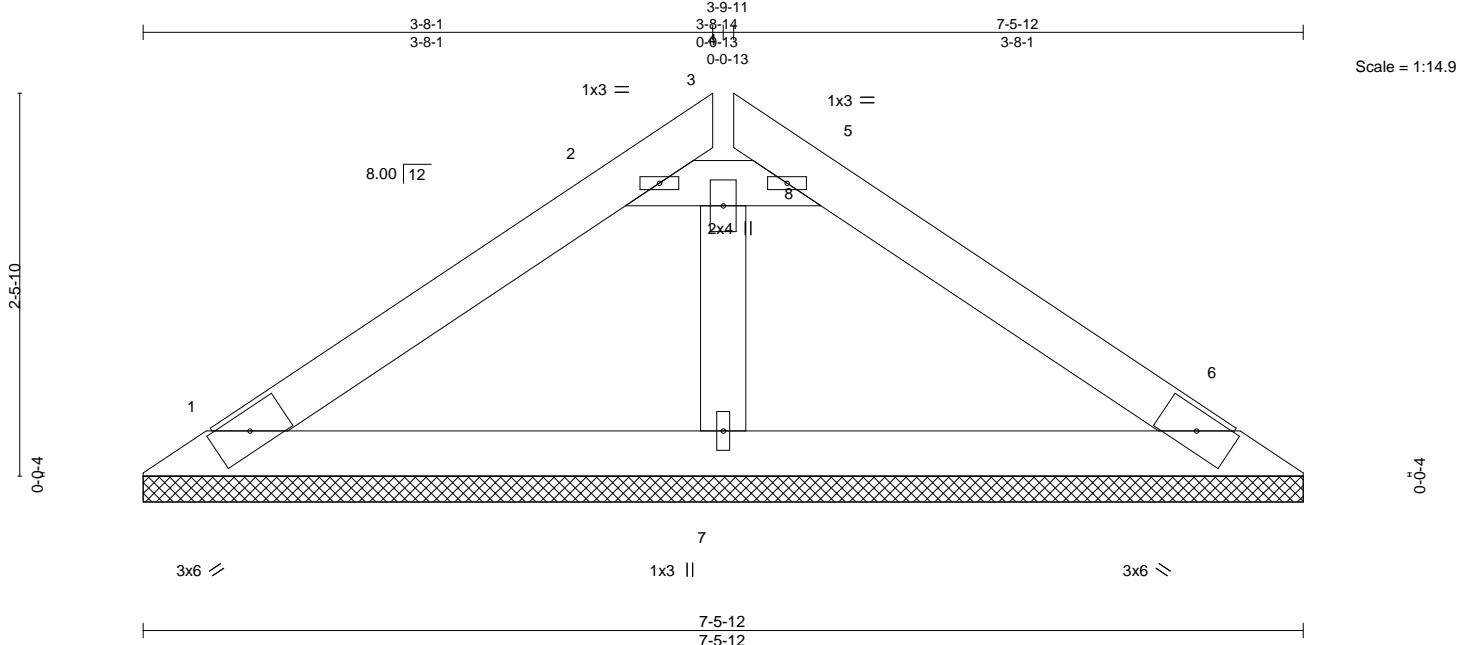
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Job 24-1180-E	Truss V431	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443233
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Madera Comp Az, PHOENIX, AZ - 85043,

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ID:3mCmX7wpmmbw7h639aarmzZihj-Km5BDNwC1x_n25ic96NjNEoZJ2vCyy0m6F1fuqyHHW1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.15	Vert(LL)	-0.03	4-5	n/r	120	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	-0.03	4-5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.00	6	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S						Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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=7-5-12, 6=7-5-12, 7=7-5-12
Max Horz 1=48(LC 10)
Max Uplift 1=39(LC 12), 6=39(LC 12), 7=17(LC 12)
Max Grav 1=150(LC 1), 6=150(LC 1), 7=193(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- Cable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 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.



EXPIRES: Jun 30, 2026
November 20,2024

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

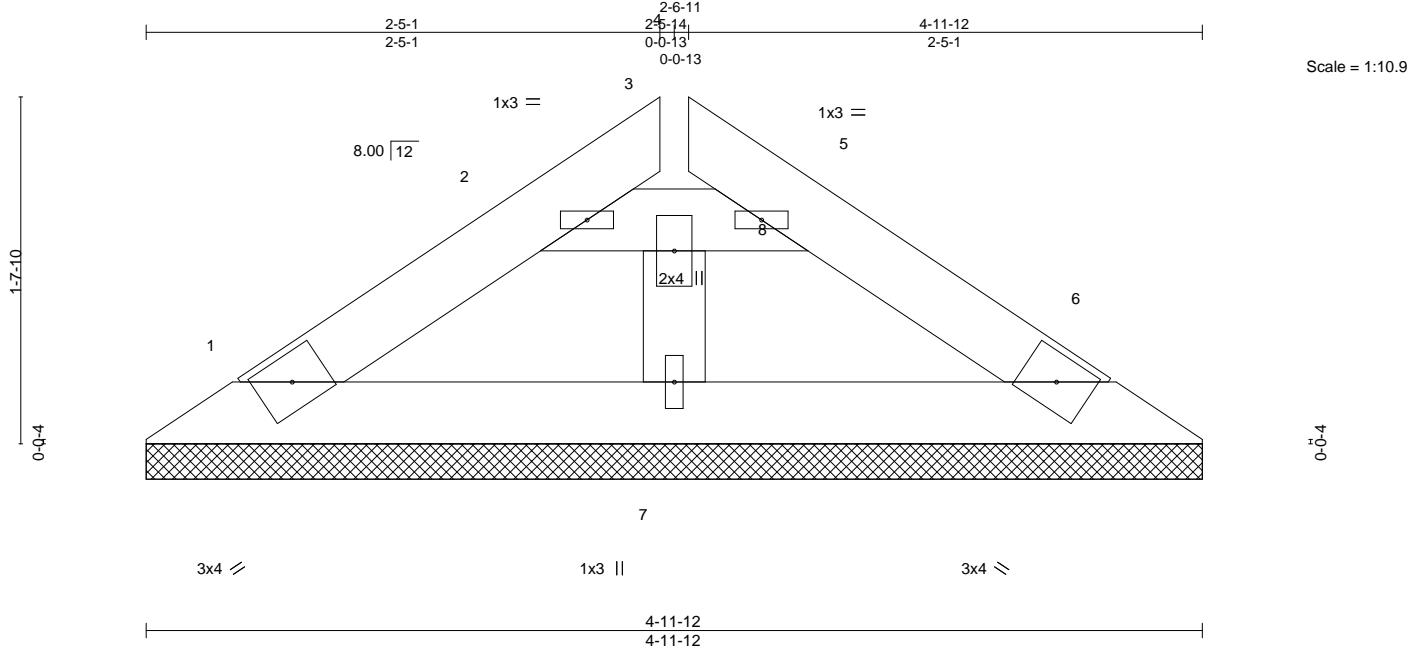
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpiinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

Job 24-1180-E	Truss V432	Truss Type GABLE	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443234
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:53 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZlhj-oYfZQjxqoF6efEHpjquywSLmQSGFhQqvLvnCRGyHHW0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.06	Vert(LL) -0.01 4-5 n/r 120	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.07	Vert(CT) -0.01 4-5 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.00 6 n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-S		Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 1=4-11-12, 6=4-11-12, 7=4-11-12

Max Horz 1=29(LC 11)

Max Uplift 1=-26(LC 12), 6=-26(LC 12), 7=-13(LC 12)

Max Grav 1=96(LC 1), 6=96(LC 1), 7=115(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 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.



EXPIRES: Jun 30, 2026
November 20,2024

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 24-1180-E	Truss V433	Truss Type Valley	Qty 4	Ply 1	4-Plex-A - Farmhouse-Roof	R85443235
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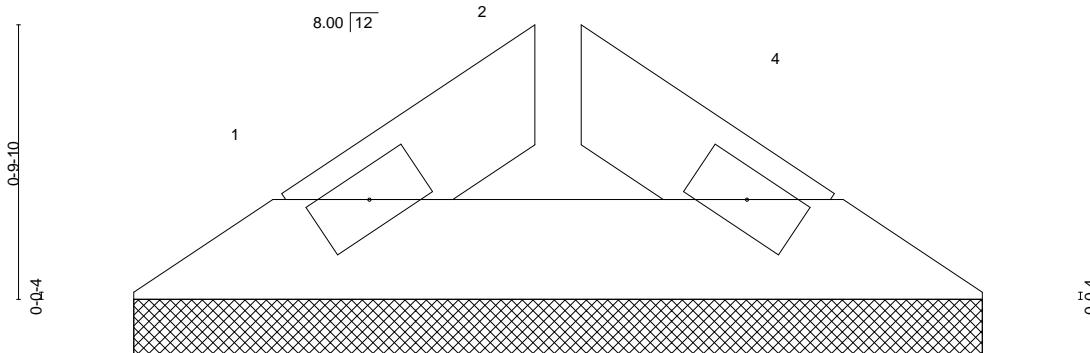
Madera Comp Az, PHOENIX, AZ - 85043,

3 8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:53 2024 Page 1
ID:3mCmX7wpmmbwy7h639aarmzzlhj-oyfZQjxqoF6efEHpjquywSLmnSHjhRpvLvnCRGyHHW0

1-2-1
1-2-1
1-3-11
0-0-13
0-0-13

2-5-12
1-2-1

Scale = 1:6.7



VERTICAL SUPPORT OF FREE END
OF CHORD IS REQUIRED.

2x4 ≈

2x4 ≈

2-5-12
2-5-12

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.04	Vert(LL)	-0.00	3	n/r	120	MT20	197/144
TCDL 14.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.00	3	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-P						Weight: 5 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=2-5-12, 4=2-5-12
Max Horz 1=11(LC 11)
Max Uplift 1=-36(LC 12), 4=-36(LC 12)
Max Grav 1=54(LC 1), 4=54(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



EXPIRES: Jun 30, 2026
November 20, 2024

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

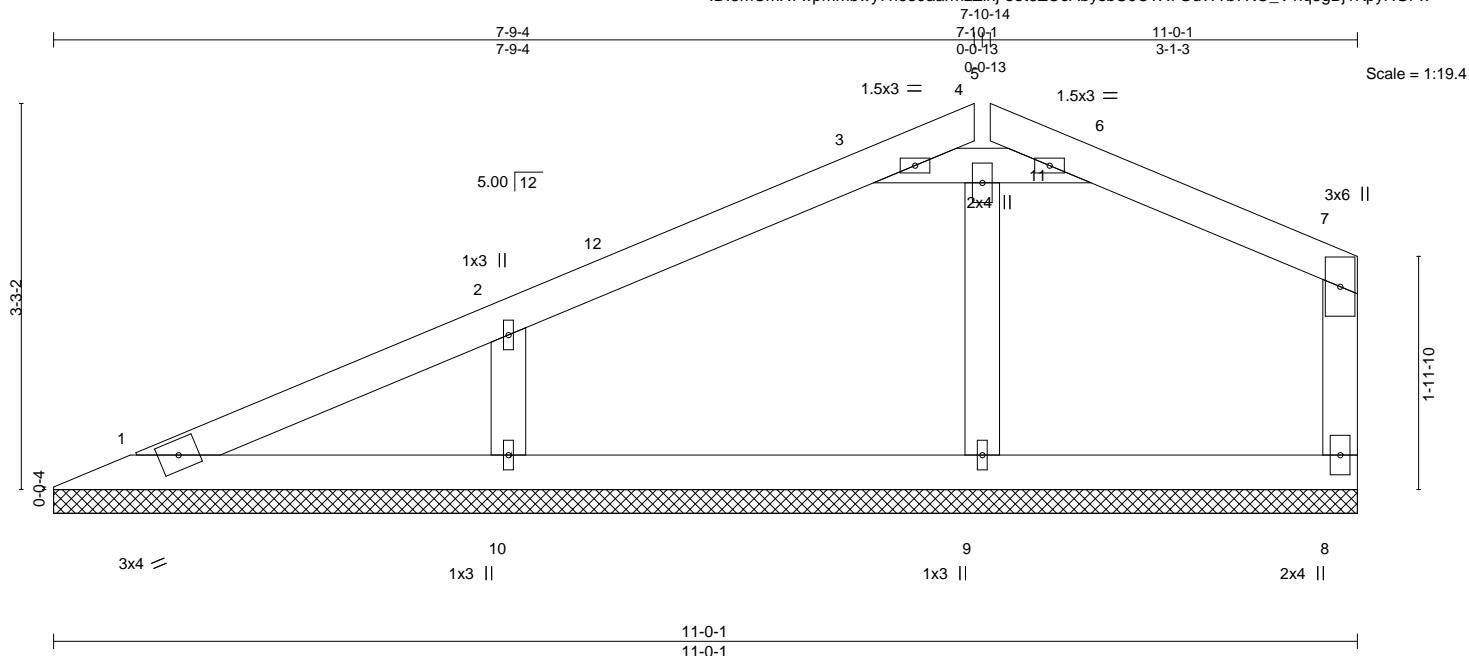
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI1 Quality Criteria and DSB-22](#) available from Truss Plate Institute ([www.tpiinst.org](#)) and [BCSI Building Component Safety Information](#) available from the Structural Building Component Association ([www.sbcsccomponents.com](#))

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Roseville, CA 95661
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Job 24-1180-E	Truss V450	Truss Type GABLE	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443236
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Madera Component Systems, Inc, Phoenix, AZ 85043

8.820 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 20 12:09:38 2024 Page 1
ID:3mCmX7wpmmbw7h639aarmzLjh-55t6ZCeAbysbU9C?X7GdW?b7KO_V1lq3gBjKpyHGPx



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.39	Vert(LL) -0.04 in (loc) 5-6 I/defl n/r L/d 120		
TCDL 14.0	Lumber DOL 1.25	BC 0.08	Vert(CT) -0.04 in (loc) 5-6 I/defl n/r L/d 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.00 in (loc) 8 I/defl n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-S		Weight: 33 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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.

- All bearings 11-0-1.
- (lb) - Max Horz 1=85(LC 11)
- Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 9, 10
- Max Grav All reactions 250 lb or less at joint(s) 1, 8 except 9=297(LC 23), 10=335(LC 23)

FORCES.

- (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-10-=280/190

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-10-11, Interior(1) 3-10-11 to 7-9-14, Exterior(2E) 7-11-8 to 10-10-15 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 9, 10.
- 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.

LOAD CASE(S) Standard



EXPIRES: Jun 30, 2026
November 20,2024



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 24-1180-E	Truss V451	Truss Type GABLE	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443237
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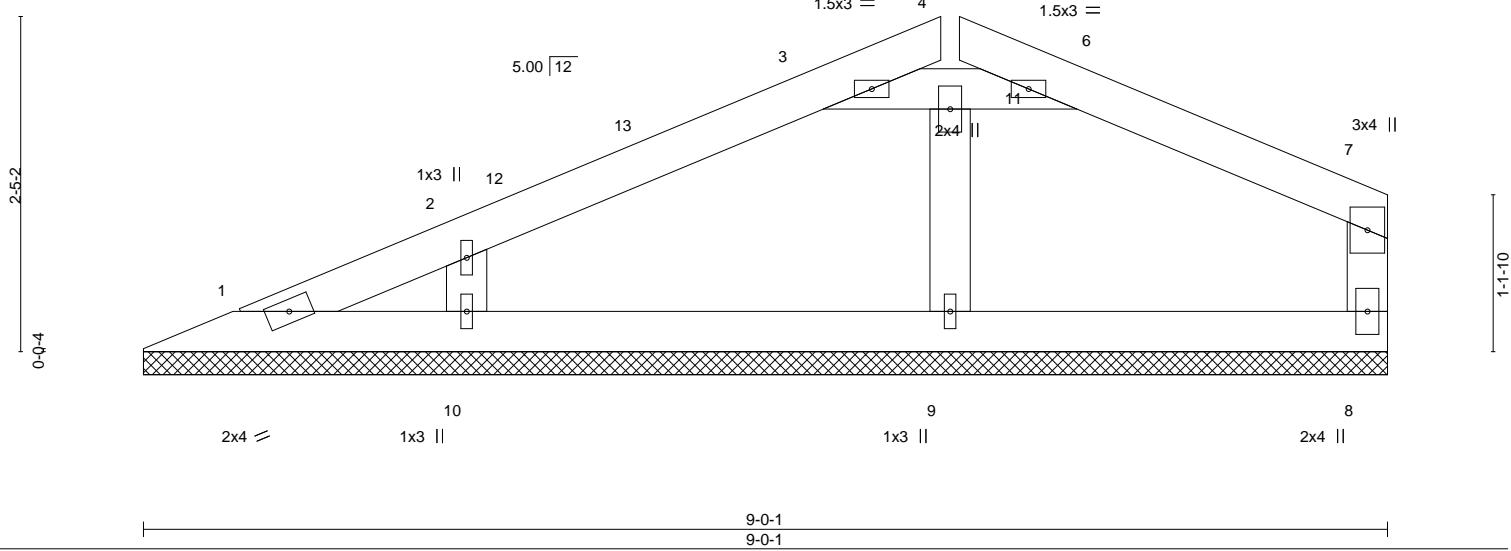
Madera Component Systems, Inc, Phoenix, AZ 85043

8.820 s Oct 31 2024 MiTek Industries, Inc. Wed Nov 20 12:10:35 2024 Page 1
ID:3mCmX7wpmbwy7h639aarmzLjh-w3qgXhKxAT2Vpw3yNbo?K0SuzMR0tXCSmY0Yr?yHGP2

5-9-4
5-9-4

5-10-14
5-10-1
0-0-13
0-0-13
9-0-1
3-1-3
5

Scale = 1:16.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.33	Vert(LL) -0.03 in (loc) 5-6 I/defl n/r L/d 120		
TCDL 14.0	Lumber DOL 1.25	BC 0.06	Vert(CT) -0.03 in (loc) 5-6 I/defl n/r L/d 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.00 in (loc) 8 I/defl n/a n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-S		Weight: 26 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 HF/SPF Stud/Std	
OTHERS 2x4 HF/SPF Stud/Std	

REACTIONS.

- (lb) - Max Horz 1=52(LC 11)
- Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 9, 10
- Max Grav All reactions 250 lb or less at joint(s) 1, 8 except 9=250(LC 23), 10=294(LC 23)

FORCES.

- (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-10-=261/174

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-9-14, Exterior(2E) 5-11-8 to 8-10-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 9, 10.
- 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.

LOAD CASE(S) Standard



EXPIRES: Jun 30, 2026
November 20,2024



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 24-1180-E	Truss V452	Truss Type GABLE	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443238
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:55 2024 Page 1

ID:3mCmX7wpmmbwy7h639aarmzZihj-kLnKrPy5KsMMvYRBrFxQ?tQ4mGxD9HkCoDGJv9yHHW_

3-9-4
3-9-4

3-10-14
0-0-13
0-0-13

7-0-1
3-1-3

Scale = 1:13.2

5.00 [12]

2

1.5x3 =
5

1-7-2
0-0-4

3

8

2x4 ||

4

6

0-3-10

7

3x4 =

1x3 ||

3x4 =

7-0-1
7-0-1

Plate Offsets (X,Y)-- [1:0-2-0,0-1-13], [6:0-2-0,0-1-14]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	-0.04	4-5	n/r	120	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.04	4-5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.00	6	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S						Weight: 18 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 HF/SPF Stud/Std
 OTHERS 2x4 HF/SPF Stud/Std

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=7-0-1, 6=7-0-1, 7=7-0-1

Max Horz 1=18(LC 10)

Max Uplift 1=37(LC 12), 6=-37(LC 12), 7=-24(LC 12)

Max Grav 1=140(LC 1), 6=149(LC 24), 7=182(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat II; Exp C; Enclosed; MWFRS (directional) 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 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.



EXPIRES: Jun 30, 2026
 November 20, 2024



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MiTek®
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 Roseville, CA 95661
 916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss V453	Truss Type Valley	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443239
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:55 2024 Page 1

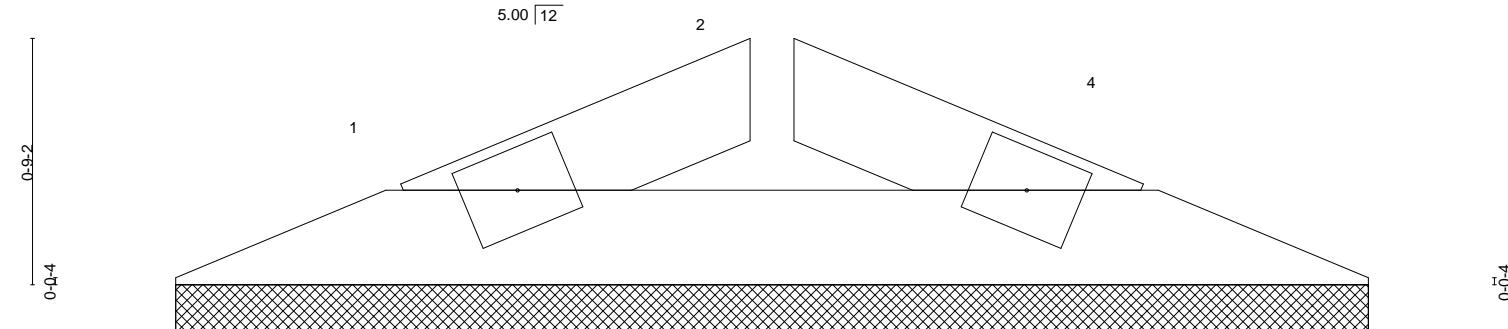
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1-9-4
1-9-4

1-10-14
3-10-1
0-0-13
0-0-13

3-8-2
1-9-4

Scale = 1:7.1



VERTICAL SUPPORT OF FREE END
OF CHORD IS REQUIRED.

3x4 ≈

3x4 ≈

3-8-2

3-8-2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.06	Vert(LL)	-0.00	3	n/r	MT20	197/144
TCDL 14.0	Lumber DOL 1.25	BC 0.09	Vert(CT)	-0.01	3	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P					Weight: 7 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-8-2, 4=3-8-2
Max Horz 1=7(LC 10)
Max Uplift 1=53(LC 12), 4=53(LC 12)
Max Grav 1=80(LC 1), 4=80(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



EXPIRES: Jun 30, 2026
November 20,2024



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/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Job 24-1180-E	Truss V460	Truss Type GABLE	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443240
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:56 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-DXLi2lzb5AVCWi0OOySFY4zFzgFXuk5L1t?sbbyHHVz

4-2-4

4-3-14
4-3-1
0-0-13
0-0-13

8-6-2

Scale: 3/4"=1'

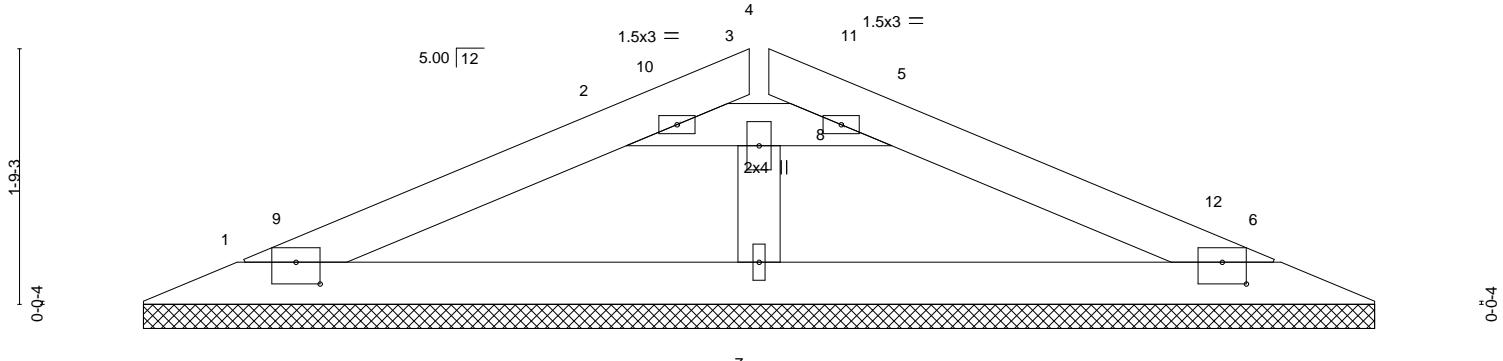


Plate Offsets (X,Y)-- [1:0-2-0,0-1-13], [6:0-2-0,0-1-13]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.17	Vert(LL)	-0.06	4-5	n/r	120	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	-0.06	4-5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.00	6	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S						Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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=8-6-2, 6=8-6-2, 7=8-6-2

Max Horz 1=21(LC 10)
Max Uplift 1=-41(LC 12), 6=-41(LC 12), 7=-27(LC 12)
Max Grav 1=159(LC 1), 6=159(LC 1), 7=212(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 4-2-14, Exterior(2R) 4-4-8 to 7-4-8, Interior(1) 7-4-8 to 7-10-6 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 7.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024



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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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss V461	Truss Type Valley	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443241
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:56 2024 Page 1

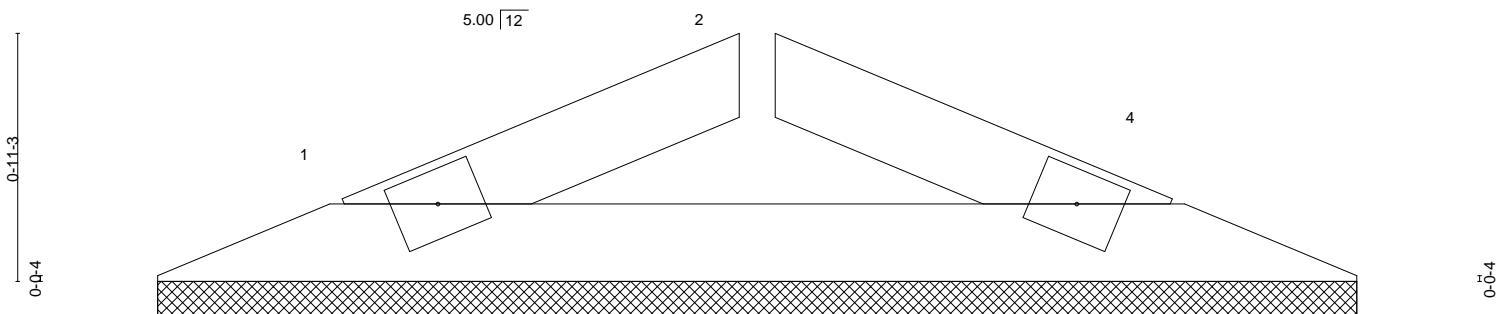
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2-2-4
2-2-4

2-3-1
0-0-13
3-0-0-13

4-6-2
2-2-4

Scale = 1:8.7



VERTICAL SUPPORT OF FREE END
OF CHORD IS REQUIRED.

3x4 ≈

3x4 ≈

4-6-2
4-6-2

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.12	Vert(LL) -0.02	3	n/r	120	
TCDL 14.0	Lumber DOL 1.25	BC 0.18	Vert(CT) -0.04	3	n/r	120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	4	n/a	n/a	
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P				Weight: 9 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-6-2, 4=4-6-2

Max Horz 1=9(LC 11)
Max Uplift 1=-74(LC 12), 4=-74(LC 12)
Max Grav 1=111(LC 1), 4=111(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024



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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Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss V470	Truss Type GABLE	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443242
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:56 2024 Page 1

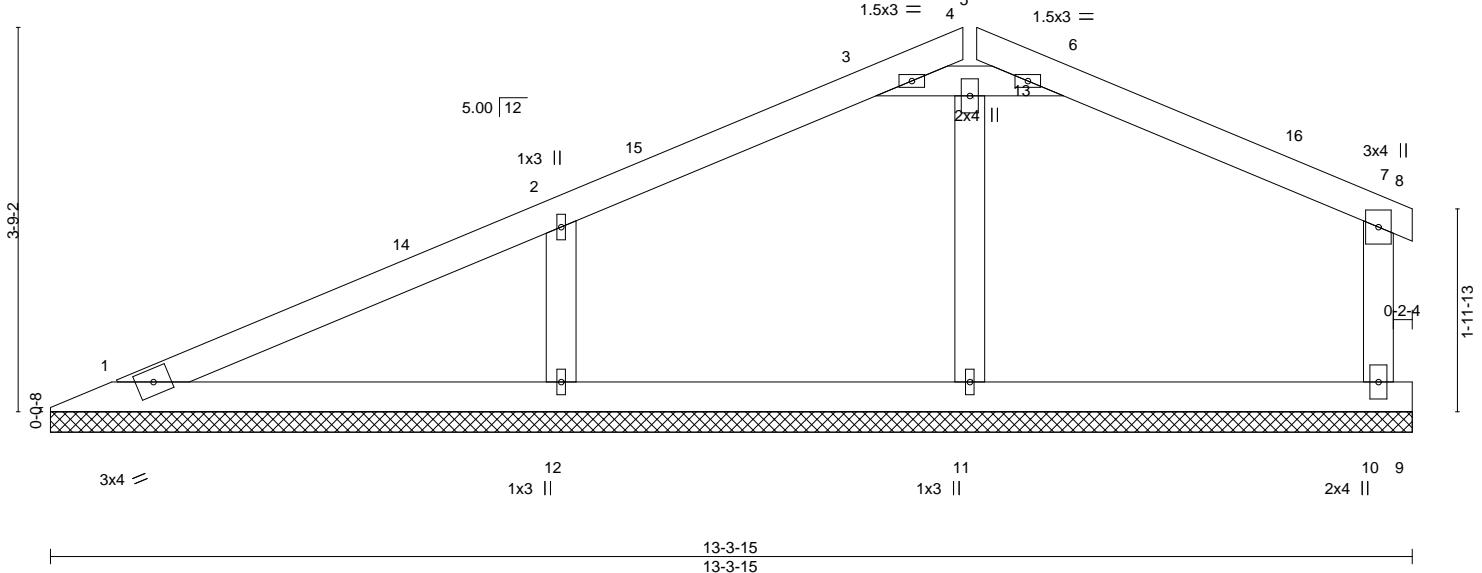
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8-11-3
8-11-3

9-0-13
9-0-0
0-0-13
0-0-13
5

13-3-15
4-3-3

Scale = 1:22.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.34	Vert(LL)	-0.04	5-6	n/r	120	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	-0.05	5-6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.01	8	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S						Weight: 40 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 HF/SPF Stud/Std	
OTHERS 2x4 HF/SPF Stud/Std	

REACTIONS.

- All bearings 13-3-15.
(lb) - Max Horz 1=95(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 11, 12 except 8=-483(LC 24), 10=-183(LC 23)
Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 8=256(LC 23), 10=711(LC 24), 11=270(LC 1), 12=375(LC 23)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-10=673/305
WEBS 2-12=303/196

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 9-0-6, Exterior(2R) 9-2-0 to 12-2-0, Interior(1) 12-2-0 to 13-5-2 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 11, 12 except (it=lb) 8=483, 10=183.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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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MiTek®
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

Job 24-1180-E	Truss V471	Truss Type GABLE	Qty 1	Ply 1	4-Plex-A - Farmhouse-Roof	R85443243
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:57 2024 Page 1

ID:3mCmX7wpmmbw7h639aarmzZihj-hkv4G4_LsTd38sbayfzu4IVOf3dyd9LVGXlQZ1yHHVv

7-0-13

6-11-3

6-11-3

7-0-0

0-0-13

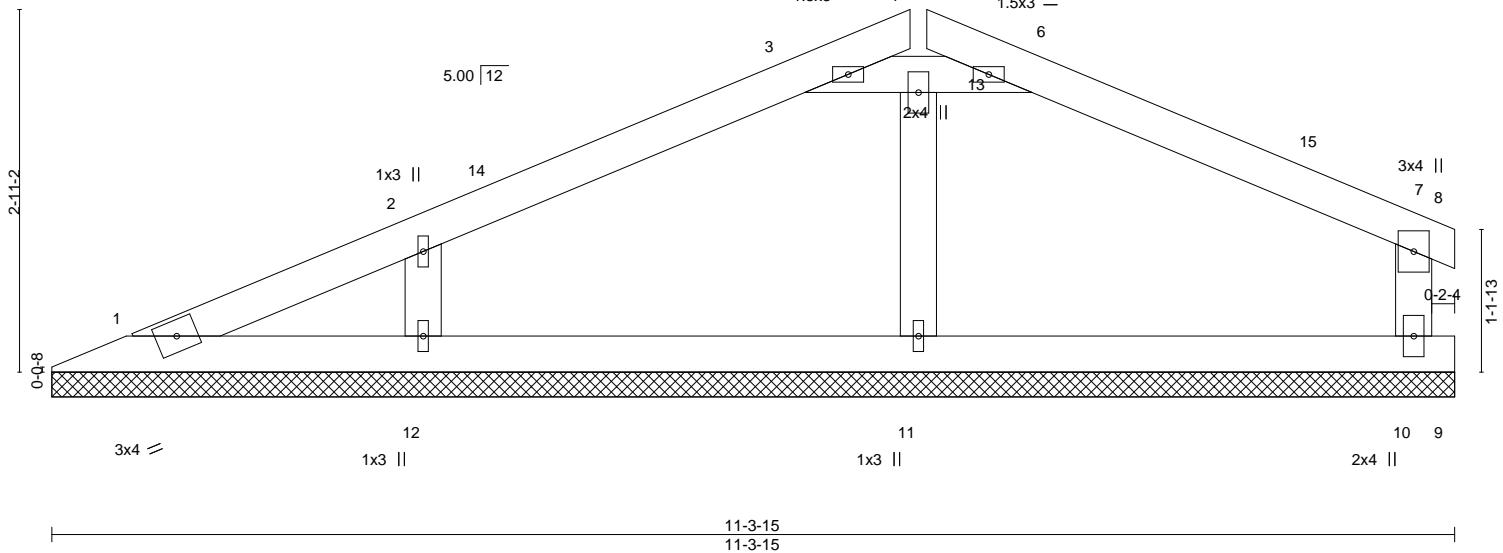
0-0-13

5

11-3-15

4-3-3

Scale = 1:18.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.30	Vert(LL)	-0.04	5-6	n/r	120	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.03	5-6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.01	8	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S						Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 HF/SPF Stud/Std	
OTHERS 2x4 HF/SPF Stud/Std	

REACTIONS.

- All bearings 11-3-15.
(lb) - Max Horz 1=62(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 11, 12 except 8=-385(LC 24), 10=-314(LC 23)
Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 8=338(LC 23), 10=609(LC 24), 11=256(LC 1), 12=313(LC 23)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-10=582/305
WEBS 2-12=269/189

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 7-0-6, Exterior(2R) 7-2-0 to 10-2-0, Interior(1) 10-2-0 to 11-5-2 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 11, 12 except (it-lb) 8=385, 10=314.
- 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.



EXPIRES: Jun 30, 2026
November 20,2024

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/TPI1 Quality Criteria and DS-B-22** available from Truss Plate Institute (www.tpiinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Roseville, CA 95661
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Job 24-1180-E	Truss V472	Truss Type GABLE	Qty 3	Ply 1	4-Plex-A - Farmhouse-Roof	R85443244
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:57 2024 Page 1

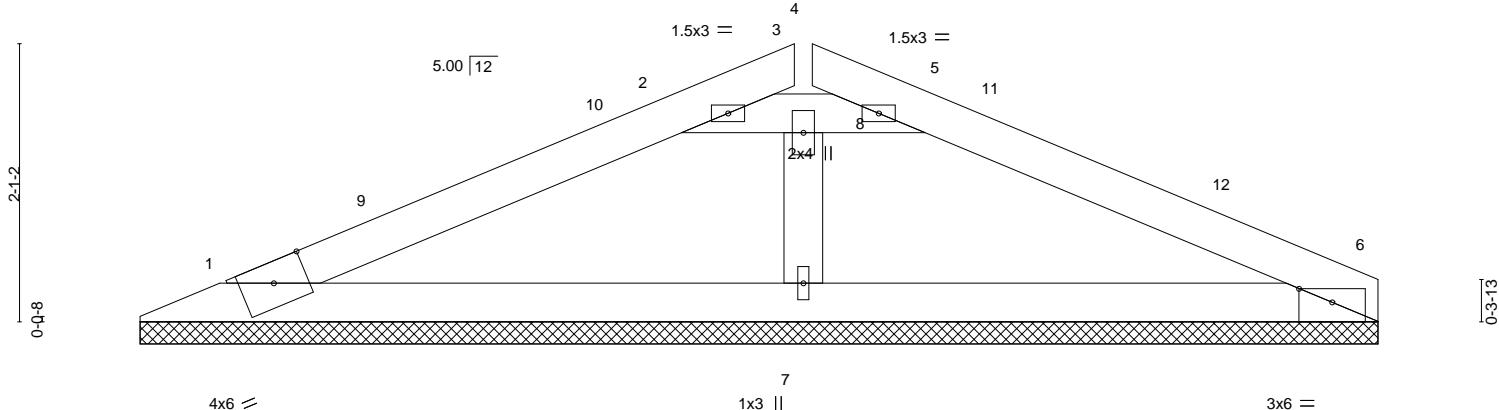
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4-11-3
4-11-3

5-0-13
5-0-0
0-0-13
0-0-13

9-3-15
4-3-3

Scale = 1:17.4



1x3 ||

3x6 =

9-3-15
9-3-15

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL 1.25	TC 0.26	Vert(LL)	-0.11	4-5	n/r	MT20	185/144
TCDL 14.0	Lumber DOL 1.25	BC 0.35	Vert(CT)	-0.10	4-5	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.34	Horz(CT)	0.00	6	n/a		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-S					Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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=9-3-15, 6=9-3-15, 7=9-3-15

Max Horz 1=26(LC 10)
Max Uplift 1=-48(LC 12), 6=-48(LC 12), 7=-31(LC 12)
Max Grav 1=191(LC 1), 6=191(LC 1), 7=262(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-0-6, Exterior(2R) 5-2-0 to 8-2-0, Interior(1) 8-2-0 to 9-5-2 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
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 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.



EXPIRES: Jun 30, 2026
November 20,2024

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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Roseville, CA 95661
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Job 24-1180-E	Truss V473	Truss Type GABLE	Qty 3	Ply 1	4-Plex-A - Farmhouse-Roof Job Reference (optional)	R85443245
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Madera Comp Az, PHOENIX, AZ - 85043,

8.830 s Nov 8 2024 MiTek Industries, Inc. Wed Nov 20 12:54:58 2024 Page 1

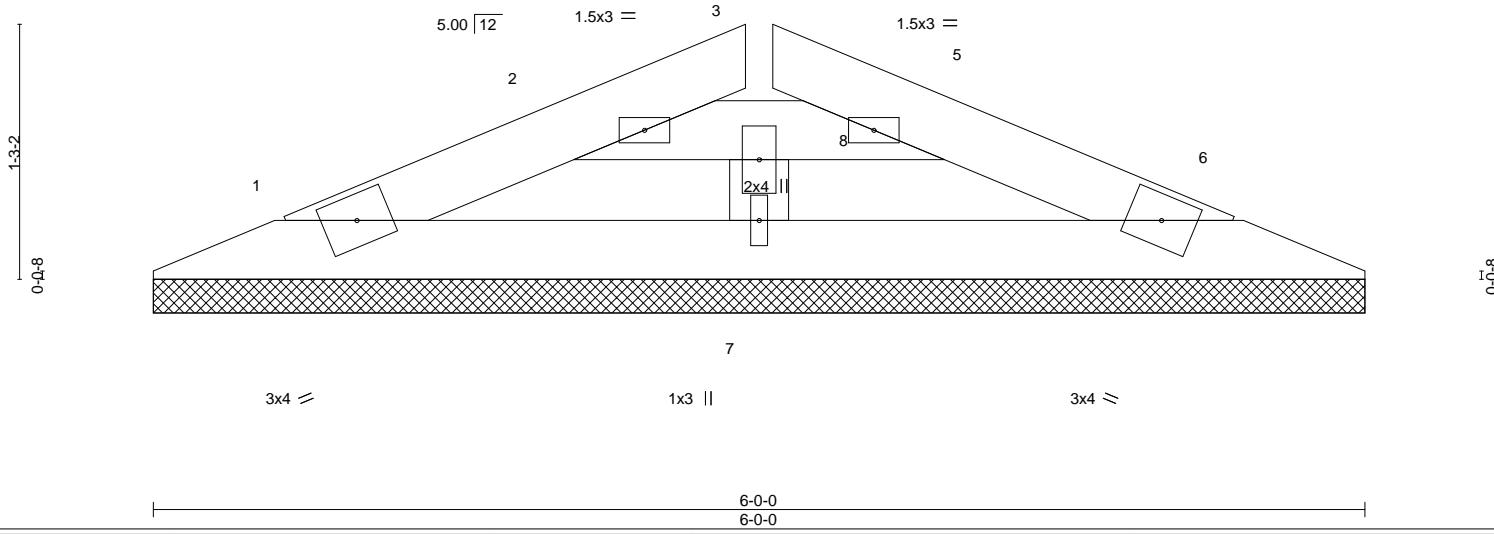
R85443245

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0-0-13

6-0-0
2-11-3

Scale = 1:11.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 16.0	Plate Grip DOL	1.25	TC 0.07	Vert(LL)	-0.02	4-5	n/r	120	MT20	185/144
TCDL 14.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	-0.02	4-5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.00	6	n/a	n/a		
BCDL 7.0	Code IRC2018/TPI2014		Matrix-S						Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 HF/SPF Stud/Std

OTHERS 2x4 SPF Utility

BRACIN

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=6-0-0, 6=6-0-0, 7=6-0-0

Max Horz 1=14(LC 11)

Max Uplift 1=-30(LC 12), 6=-30(LC 12), 7=-22(LC 12)

Max Gray 1=106(LC 1), 6=106(LC 1), 7=137(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- NOTES:**

 - 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; $V_{ult}=115\text{ mph}$ (3-second gust) $V_{asd}=91\text{ mph}$; $TCDL=6.0\text{ psf}$; $BCDL=4.2\text{ psf}$; $h=25\text{ ft}$; $B=45\text{ ft}$; $L=24\text{ ft}$; eave=4ft; Cat II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 7.
 - 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



EXPIRES: Jun 30, 2026
November 20,2024



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-1473 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 DSE-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbscomponents.com).

MiTek[®]
400 Sunrise Ave., Suite 270
Roseville, CA 95661
916.755.3571 / MiTek-US.com

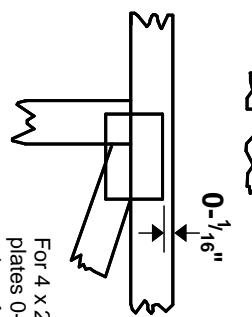
Symbols

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.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

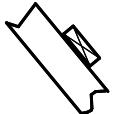
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

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

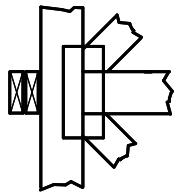
LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section or 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:

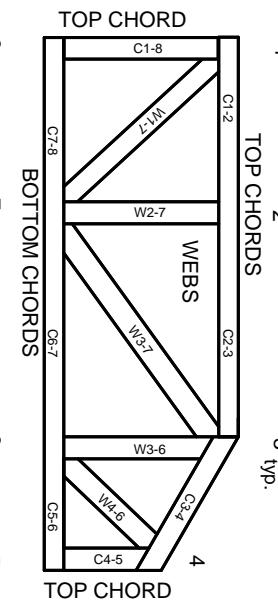
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-22: Design Standard for Bracing.

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

Numbering System

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



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g., diagonal or X-bracing, is always required. See BCSI.

2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor! bracing should be considered.

3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

5. Cut members to bear tightly against each other.

6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.

7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.

8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.

11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.

12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.

13. Top chords must be sheathed or purlins provided at spacing indicated on design.

14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.

15. Connections not shown are the responsibility of others.

16. Do not cut or alter truss member or plate without prior approval of an engineer.

17. Install and load vertically unless indicated otherwise.

18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.

19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.

20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.

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

MiTek®