



MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: 2523899



The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Valley Center).

Pages or sheets covered by this seal: I45549914 thru I45549918

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193



April 8, 2021

Sevier, Scott ,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	
2523899	B05	ROOF SPECIAL	3	1	145549914

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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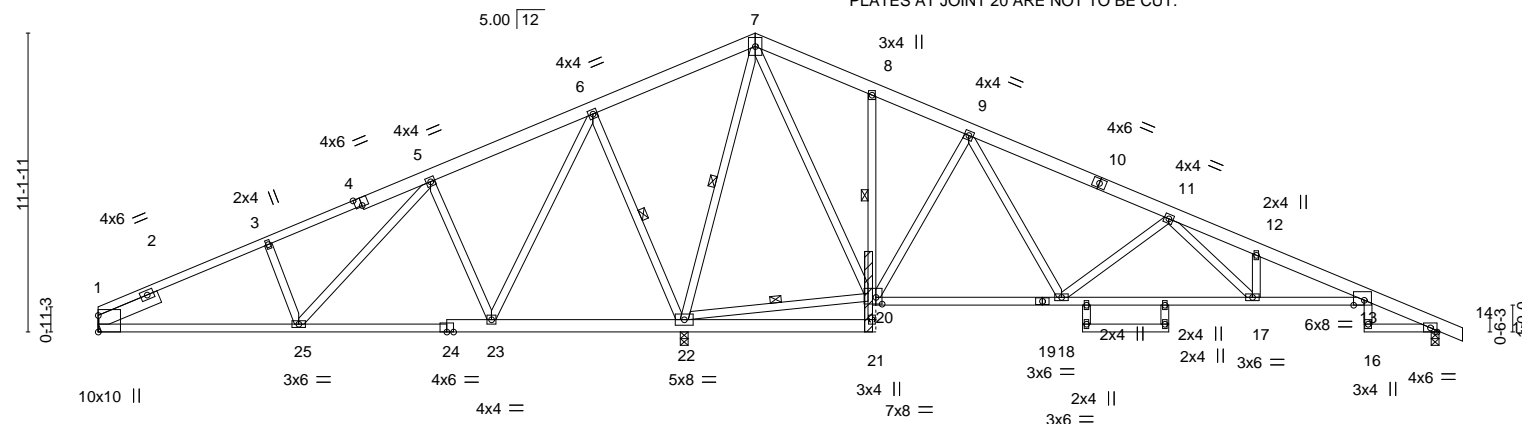
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6-4-2	12-4-12	18-5-6	24-6-0	29-0-0	32-5-9	35-11-1	39-11-1	43-2-4	47-2-8	50-0-0	50-10-8
6-4-2	6-0-10	6-0-10	6-0-10	4-6-0	3-5-9	3-5-8	4-0-0	3-3-3	4-0-4	2-9-8	0-10-8

REPAIR: RIP 1-1/2" OFF RIGHT EDGE OF MEMBER 20-21

LUMBER AND CONNECTOR PLATES TO BE CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE MUST BE FULLY EMBEDDED AND UNDISTURBED. PLATES AT JOINT 20 ARE NOT TO BE CUT.

Scale = 1:85.9



ATTACH 2X4X3' SPF NO.2 SCAB TO ONE FACE OF TRUSS WITH A CLUSTER OF (3) (0.131" X 3") NAILS INTO BOTTOM CHORD AND ONE ROW OF NAILS SPACED 3' OC IN VERTICAL.

7-5-12	14-8-0	21-10-4	29-0-0	35-11-1	36-8-8	39-2-0	39-11-1	43-2-4	47-2-8	50-0-0
7-5-12	7-2-4	7-2-4	7-1-12	6-11-1	0-9-7	2-5-8	0-9-1	3-3-3	4-0-4	2-9-8

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [13:0-4-12,Edge], [20:0-2-12,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.26 13-17	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.43 13-17	>789	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.14 14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 286 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
1-4: 2x4 SPF No.2, 10-15: 2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
21-24: 2x6 SP 2400F 2.0E
WEBS 2x4 SPF No.2 *Except*
7-22: 2x4 SPF 1650F 1.5E
SLIDER Left 2x6 SPF No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 8-20
WEBS 1 Row at midpt 6-22, 7-22, 20-22

REACTIONS.

(size) 1=Mechanical, 14=0-3-8, 22=0-3-8
Max Horz 1=-115(LC 9)
Max Uplift 1=-344(LC 20), 14=-54(LC 9), 22=-31(LC 9)
Max Grav 1=527(LC 19), 14=725(LC 20), 22=3759(LC 1)

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

TOP CHORD 1-3=-583/956, 3-5=-520/991, 5-6=-12/1553, 6-7=0/2173, 7-8=0/1035, 8-9=0/987,
11-12=-1570/148, 12-13=-1449/105, 13-14=-334/48
BOT CHORD 1-25=-824/538, 23-25=-1289/206, 22-23=-1596/199, 18-20=-449/95, 17-18=-13/687,
13-17=-38/1406
WEBS 3-25=-477/89, 5-25=-33/844, 5-23=-737/121, 6-23=-52/879, 6-22=-1021/139,
7-22=-2552/61, 20-22=-1166/176, 7-20=-87/1063, 9-20=-907/118, 11-18=-829/129,
9-18=-19/764, 12-17=-607/73, 11-17=-35/1025

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; 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.
- 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) 14, 22 except (jt=lb) 1=344.
- 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 design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

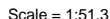
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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

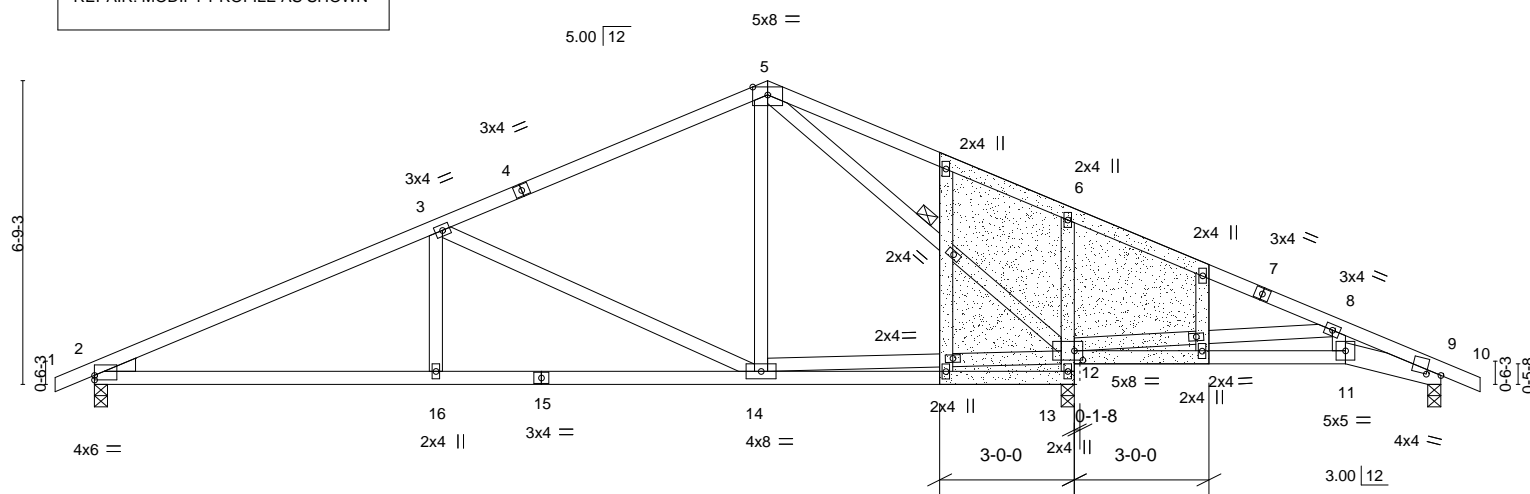


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Chesterfield, MO 63017

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SHOP FABRICATE SCAB TRUSS (SHOWN AS SHADED AREA ON TRUSS DESIGN DRAWING) USING THE LUMBER AND PLATES INDICATED.
ATTACH SCAB TRUSS TO ONE FACE OF EXISTING TRUSS WITH (0.131" X 3") NAILS (INTO ALL ALIGNING MEMBERS) PER THE FOLLOWING NAIL SCHEDULE:
2 x 3's - 1 ROW, 2 x 4's - 2 ROWS, 2 x 6's AND LARGER - 3 ROWS:
SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

	7-7-5	15-0-0	21-10-0	21-11-8	27-10-8	30-0-0
Plate Offsets (X,Y)--	7-7-5 [2:Edge,0-1-3], [9:0-3-14,0-0-10], [12:0-2-4,0-2-8]	7-7-5 4-7-11	6-10-0	0-1-8	5-11-0	2-1-8

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.08 13-14	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.17 13-14	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.05 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 124 lb	FT = 20%

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
9-11: 2x6 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-12

(size) 2=0-3-8, 9=0-3-8, 13=0-3-8
 Max Horz 2=-62(LC 9)
 Max Uplift 2=-44(LC 8), 9=-13(LC 9), 13=-42(LC 9)
 Max Grav 2=962(LC 1), 9=270(LC 20), 13=1620(LC 1)

TOP CHORD	2-3=-1584/81, 3-4=-744/31, 4-5=-636/61, 5-6=0/540, 6-7=-4/547, 7-8=-29/431, 8-9=-516/0
BOT CHORD	2-16=-74/1377, 15-16=-74/1377, 14-15=-74/1377, 13-14=-330/27, 11-12=0/472, 9-11=0/502
WEBS	3-16=0/288, 3-14=-893/113, 5-14=0/522, 12-14=0/895, 5-12=-1310/5, 8-12=-813/62, 8-11=0/298, 12-13=-1590/70, 6-12=-514/128

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) The Fabrication Tolerance at joint 7 = 15%
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 2, 13 lb uplift at joint 9 and 42 lb uplift at joint 13.
- 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 design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 8, 2021



WARNING - Velly design parameters and READ NOTES ON THIS AND INCLUDED WITHIN KEY EXERCISE 1 AGE MH-475 (Rev. 3/19/2020) BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Chesterfield, MO 63017

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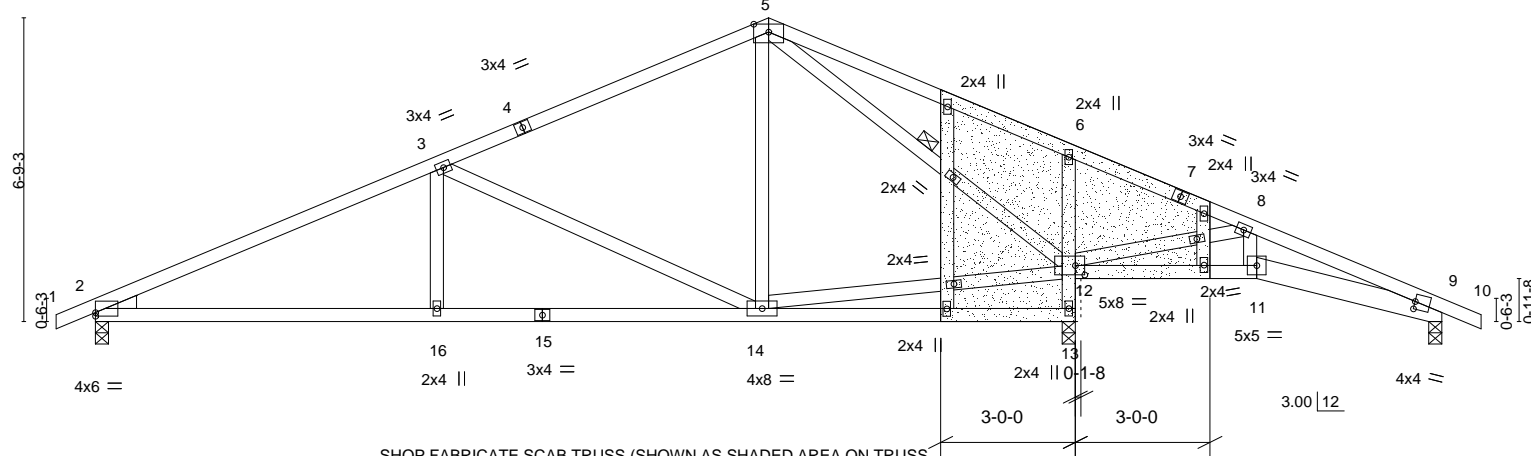
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TOP CHORD SPLICE NOT REQUIRED IN SCAB TRUSS



SHOP FABRICATE SCAB TRUSS (SHOWN AS SHADED AREA ON TRUSS DESIGN DRAWING) USING THE LUMBER AND PLATES INDICATED. ATTACH SCAB TRUSS TO ONE FACE OF EXISTING TRUSS WITH (0.131" X 3") NAILS (INTO ALL ALIGNING MEMBERS) PER THE FOLLOWING NAIL SCHEDULE:
2 x 3's - 1 ROW, 2 x 4's - 2 ROWS, 2 x 6's AND LARGER - 3 ROWS:
SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

	7-7-5	15-0-0	21-10-0	21-11-8	25-10-8	30-0-0
Plate Offsets (X,Y)--	7-7-5	7-4-11	6-10-0	0-1-8	3-11-0	4-1-8
	[2:Edge,0-0-15], [9:0-0-0,0-2-0], [12:0-2-8,0-2-8]					

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.08 13-14	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.17 13-14	>999	180		
BCLL 0.0	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.04 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS				Weight: 123 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
9-11: 2x6 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

BRACING-	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-12

REACTIONS. (size) 2=0-3-8, 9=0-3-8, 13=0-3-8
 Max Horz 2=62(LC 8)
 Max Uplift 2=-45(LC 8), 9=-21(LC 9), 13=-30(LC 9)
 Max Grav 2=984(LC 1), 9=317(LC 20), 13=1538(LC 1)

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

TOP CHORD 2-3=-1637/84, 3-4=-802/34, 4-5=-695/65, 5-6=0/431, 6-7=0/436, 7-8=-6/363,
8-9=-376/3

BOT CHORD 2-16=-77/1426, 15-16=-77/1426, 14-15=-77/1426, 11-12=0/282, 9-11=0/333

WEBS 3-16=0/288, 3-14=-890/112, 5-14=0/484, 12-14=0/841, 5-12=-1203/5, 8-12=-570/33,
12-13=-1497/54, 6-12=-460/114

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2, 21 lb uplift at joint 9 and 30 lb uplift at joint 13.
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 8, 2021



WARNING: Velly design parameters are listed below and included with the key reference to AISC M14-15 167, § 9.5.2020 by ONE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for the building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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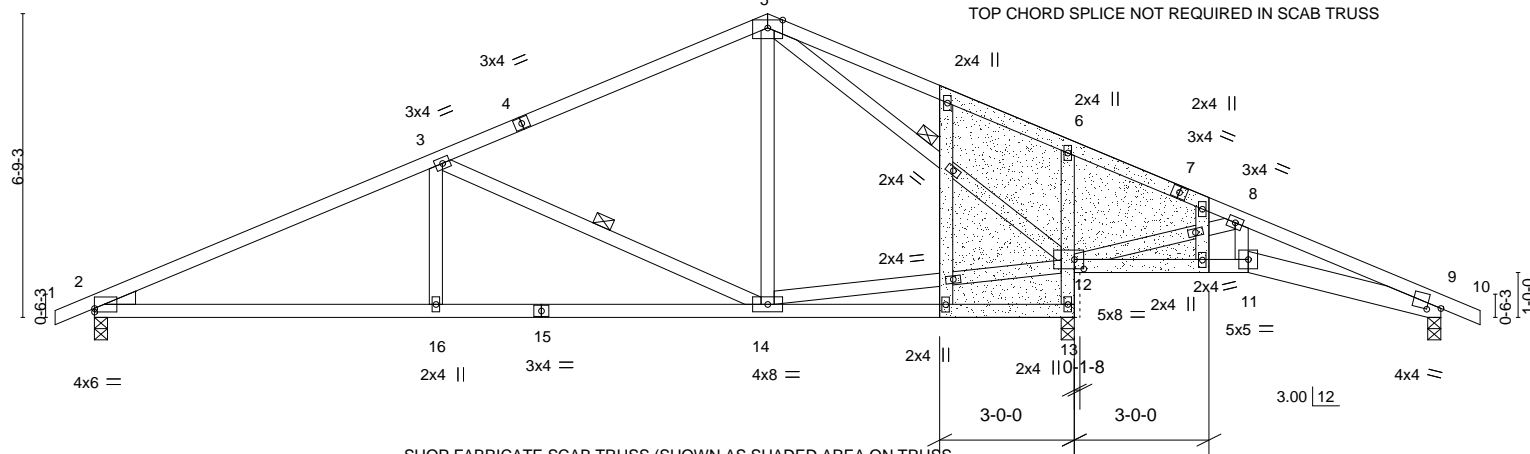
8.430 s Nov 18 2020 MiTek Industries, Inc. Thu Apr 8 11:02:06 2021 Page 1
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TOP CHORD SPLICE NOT REQUIRED IN SCAB TRUSS



SHOP FABRICATE SCAB TRUSS (SHOWN AS SHADED AREA ON TRUSS
DESIGN DRAWING) USING THE LUMBER AND PLATES INDICATED.
ATTACH SCAB TRUSS TO ONE FACE OF EXISTING TRUSS WITH (0.131" X 3") NAILS
(INTO ALL ALIGNING MEMBERS) PER THE FOLLOWING NAIL SCHEDULE:
2 x 3's - 1 ROW, 2 x 4's - 2 ROWS, 2 x 6's AND LARGER - 3 ROWS:
SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied.
	9-11: 2x6 SPF No.2	WEBS	1 Row at midpt 3-14, 5-12
WEBS	2x4 SPF No.2		
WEDGE			
Left: 2x4 SPF No.2			

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

TOP CHORD 2-3=-1643/84, 3-4=-797/34, 4-5=-690/65, 5-6=0/417, 6-7=0/422, 7-8=-4/351,
8-9=-372/4

BOT CHORD 2-16=-77/1431, 15-16=-77/1431, 14-15=-77/1431, 11-12=0/276, 9-11=0/328

WEBS 3-16=0/292, 3-14=-898/112, 5-14=0/478, 12-14=0/840, 5-12=-1189/4, 8-12=-556/32,
12-13=-1490/52, 6-12=-455/112

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2, 22 lb uplift at joint 9 and 29 lb uplift at joint 13.
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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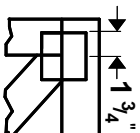
WARNING – Velly design parameters are listed below and included within key reference 1. See MH-1413 (Rev. 3/19/2020) for more details.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for the building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



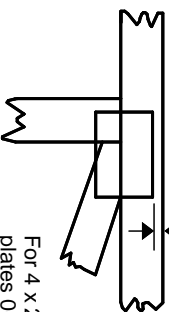
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Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

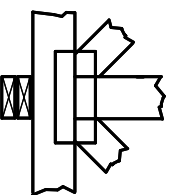
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



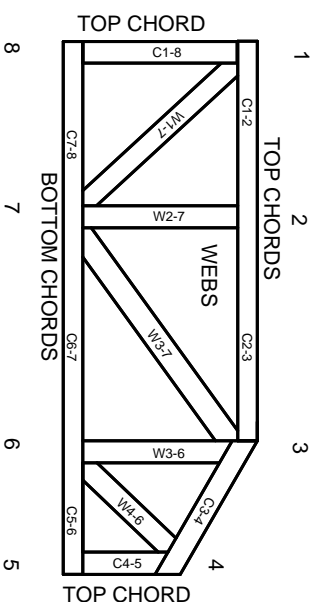
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.