



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

Re: H3-6
SUMMIT HOMES

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/26/2020

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mid America MO.

Pages or sheets covered by this seal: I43185910 thru I43185962

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

Missouri COA: Engineering 001193



October 14, 2020

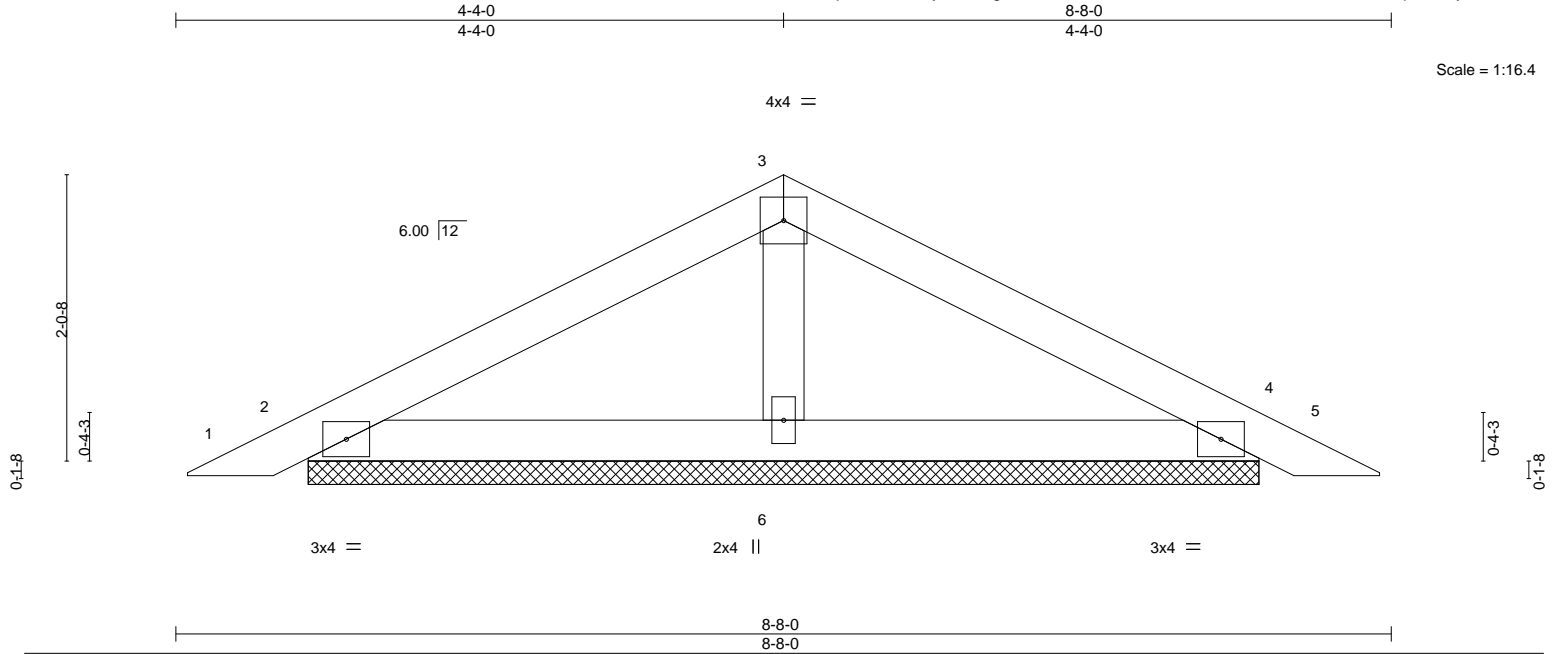
Sevier, Scott ,Engineer

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	SUMMIT HOMES	I43185910
H3-6	C1	Piggyback	20	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:19:47 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-LRm53a9dF_zKw9o2KaXVEirZHh7z2NqI3Ln7vyTrLQ



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.01 5 n/r 120	MT20		244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.01 5 n/r 90				
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00 4 n/a n/a				
BCLL	0.0	Code IRC2018/TPI2014		Matrix-P							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. (size) 2=6-9-6, 4=6-9-6, 6=6-9-6
Max Horz 2=-22(LC 9)
Max Uplift 2=-21(LC 11), 4=-25(LC 12)
Max Grav 2=209(LC 16), 4=209(LC 17), 6=264(LC 2)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 14, 2020

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

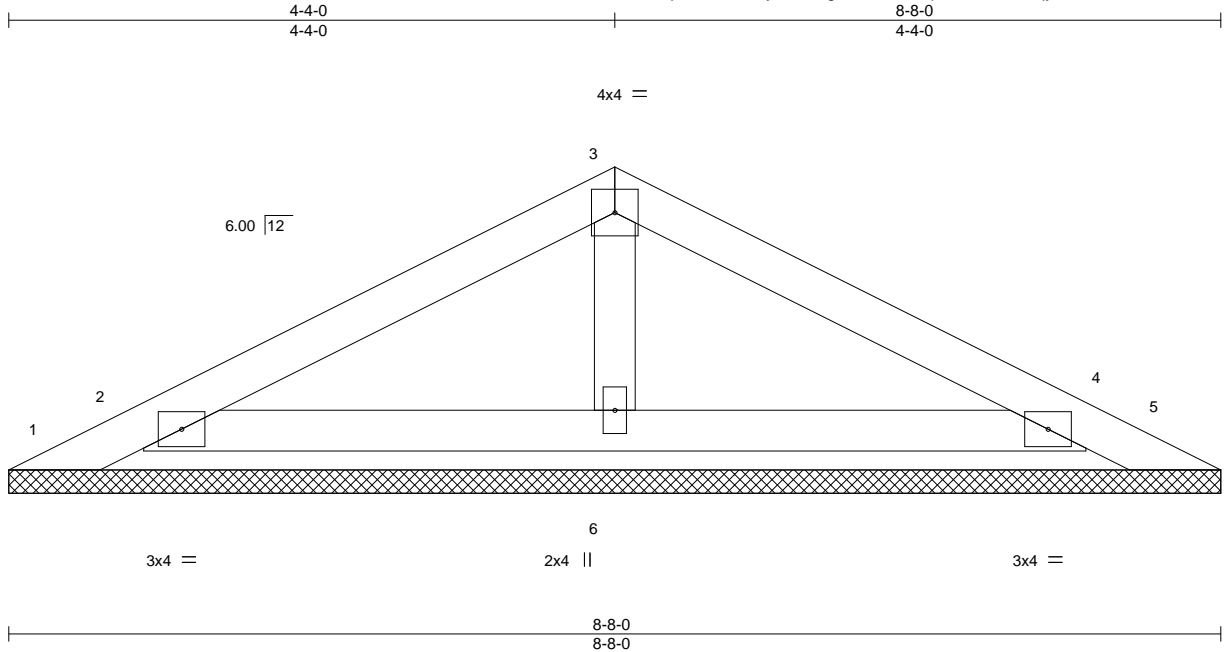


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185911
H3-6	C1GE	GABLE	2	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:19:48 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-pdPkiPanOZ7qy4k_c15m2SF15h1OiVh_j4LgLyTrLP



Scale = 1:16.5

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	MT20		244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a				
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00				
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0										
								Weight: 27 lb		FT = 3%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS.

All bearings 8'-8-0.
(lb) - Max Horz 1=23(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 4 except 1=114(LC 16), 5=114(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=363(LC 16), 4=363(LC 17)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0" oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 1=114, 5=114.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 14, 2020

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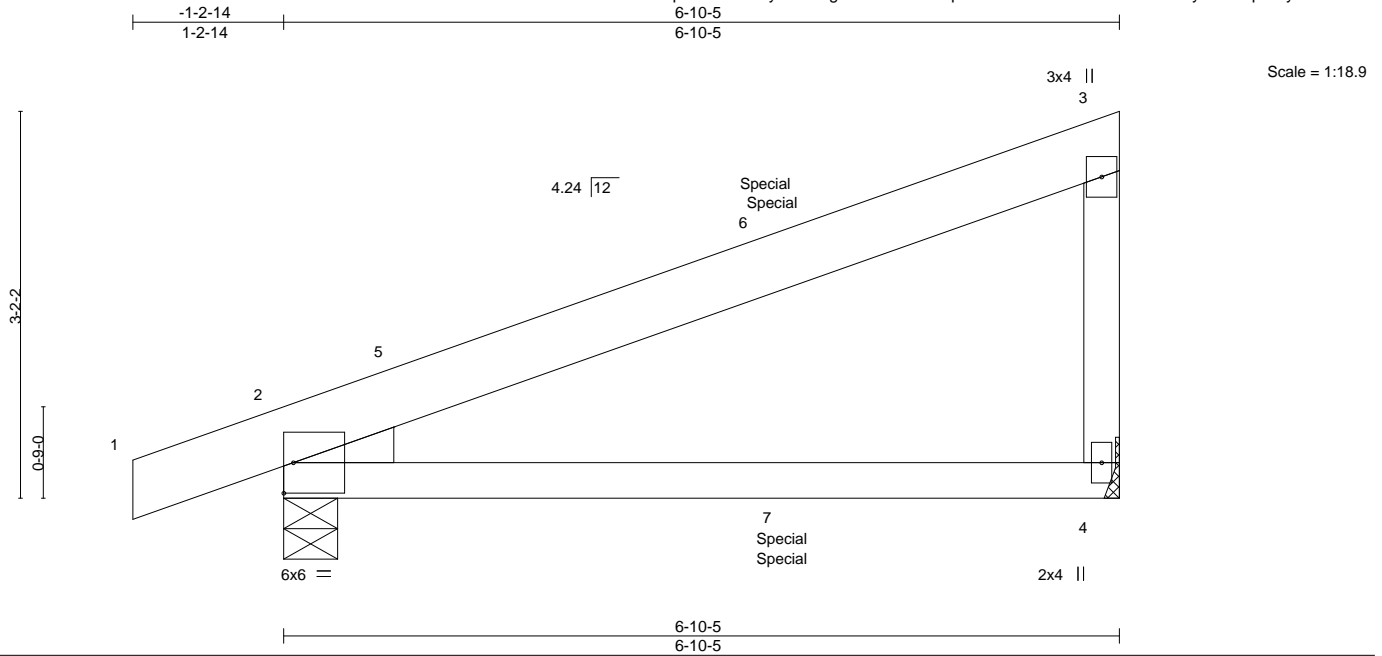


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	CJ1	Diagonal Hip Girder	2	1	
					Job Reference (optional)

I43185912

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:19:49 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-Hqz6WibP9tFhaEJAAlc?afnAc5IIRyD7CNquCoyTrLO

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.35	in (loc) 2	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.42	Vert(LL) 0.00		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.11		
BCLL 0.0	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00		
BCDL 10.0	Code IRC2018/TPI2014				
					Weight: 35 lb FT = 3%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2

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=0-5-5
 Max Horz 2=94(LC 8)
 Max Uplift 4=-40(LC 8), 2=-68(LC 7)
 Max Grav 4=299(LC 16), 2=370(LC 16)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 3 degree rotation about its center.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 47 lb up at 4-1-7, and 68 lb down and 47 lb up at 4-1-7 on top chord, and 12 lb down at 4-1-7, and 12 lb down at 4-1-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-51, 2-4=-20
 Concentrated Loads (lb)
 Vert: 6=-57(F=-28, B=-28) 7=-0(F=-0, B=-0)



October 14, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185913
H3-6	CJ2	Diagonal Hip Girder	2	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:19:50 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-l0XUj5c1wANYBOUnJS8E7tKEaVaPANHHR1ZSkEyTrLN

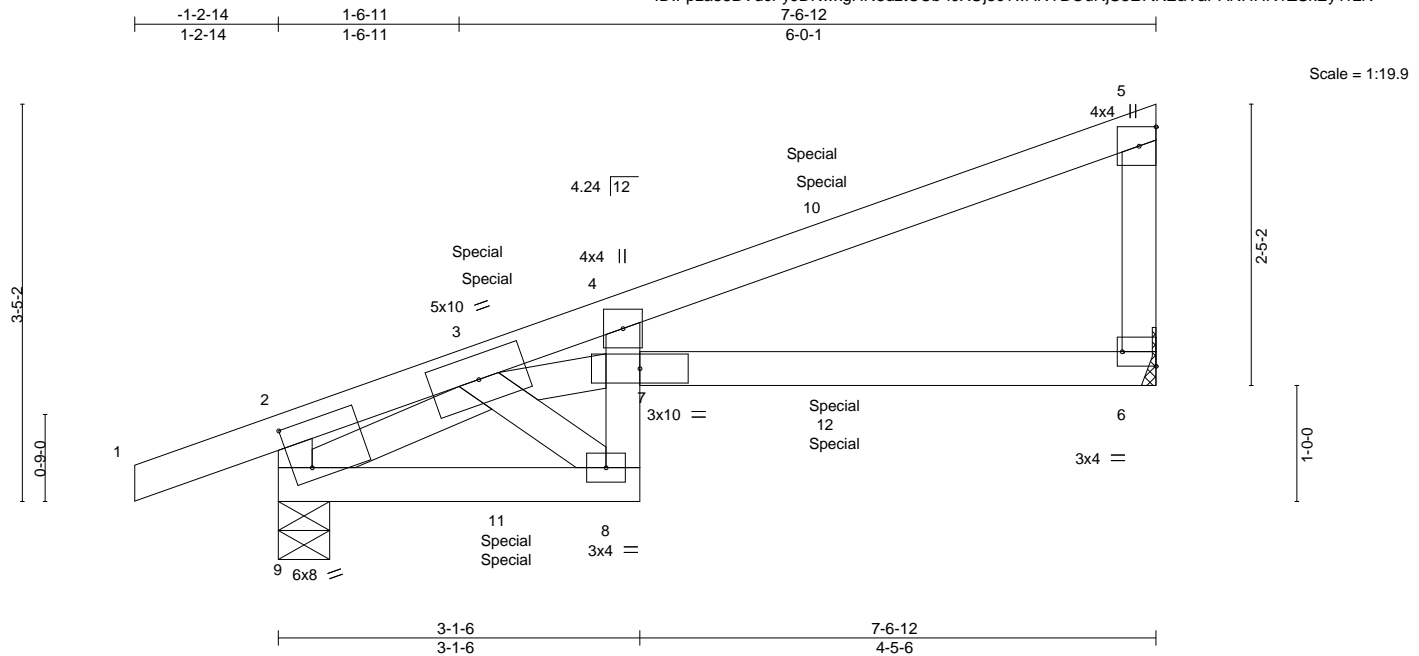


Plate Offsets (X,Y)-- [6:Edge,0-1-8], [9:0-2-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.78	Vert(LL)	-0.17	6-7	>515	360	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.68	Vert(CT)	-0.28	6-7	>314	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.14	Horz(CT)	0.10	6	n/a	n/a		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH							
BCDL 10.0	Code IRC2018/TPI2014							Weight: 36 lb	FT = 3%

LUMBER-

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

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=0-5-5, 6=Mechanical
Max Horz 9=97(LC 30)
Max Uplift 9=70(LC 7), 6=54(LC 11)
Max Grav 9=419(LC 16), 6=392(LC 16)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-808/100
BOT CHORD 8-9=-77/400, 7-8=-42/278, 4-7=-23/251
WEBS 3-8=-364/84, 3-9=-466/51, 3-7=-101/572

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 3 degree rotation about its center.
- 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) 9, 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 51 lb down and 24 lb up at 1-11-15, 51 lb down and 24 lb up at 1-11-15, and 64 lb down and 32 lb up at 4-9-14, and 64 lb down and 32 lb up at 4-9-14 on top chord, and at 1-11-15, at 1-11-15, and 44 lb down and 28 lb up at 4-9-14, and 44 lb down and 28 lb up at 4-9-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-51, 2-5=-51, 8-9=-20, 6-7=-20
Concentrated Loads (lb)
Vert: 10=-20(F=-10, B=-10) 12=-88(F=-44, B=-44)



October 14, 2020

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	GR1	PIGGYBACK BASE GIRDE	1	2	I43185914

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:19:54 2020 Page 2
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-enm?ZSfYzPt_g?B8ylCAHjVyk6zP6?FsMfXft?yTrLJ

NOTES-
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 7604 lb down at 2-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-51, 5-7=-51, 7-9=-61, 9-11=-51, 1-18=-20, 12-17=-20
Concentrated Loads (lb)
Vert: 20=-7604(F) 26=-544(F)

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185915
H3-6	H1	Hip Girder	1	2	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:19:56 2020 Page 1

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-aAum_8goV07ivJLW4jFeM8aEYvaLa1T9pz0myuyTrLH

0-10-8	1-1-12	2-3-8	5-5-4	9-6-12	12-8-8	13-10-4	15-0-0	15-10-8
0-10-8	1-1-12	1-1-12	3-1-12	4-1-8	3-1-12	1-1-12	1-1-12	0-10-8

Scale = 1:27.7

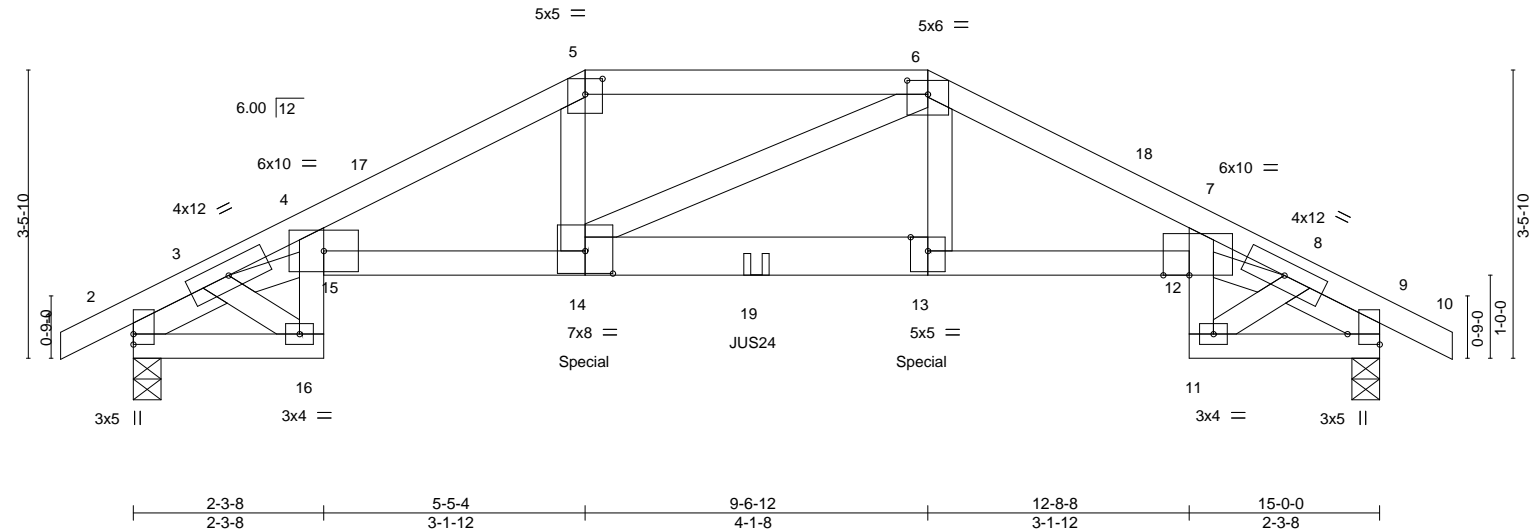


Plate Offsets (X,Y)-- [5:0-2-8,0-2-4], [6:0-3-0,0-2-0], [7:0-3-12,0-0-0], [9:Edge,0-4-10], [14:0-4-0,0-3-4]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.15	14-15	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.24	14-15	>752	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.24	9	n/a	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-SH								
BCDL	10.0											Weight: 159 lb FT = 3%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
14-15,12-13: 2x4 SP No.1, 13-14: 2x6 SP No.1	
WEBS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 -t 1-2-2, Right 2x4 SP No.2 -t 1-2-2	

REACTIONS. (size) 2=0-4-0, 9=0-4-0
Max Horz 2=36(LC 54)
Max Uplift 2=132(LC 11), 9=132(LC 12)
Max Grav 2=1484(LC 34), 9=1484(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1985/189, 3-4=-4073/401, 4-5=-3380/355, 5-6=-3050/342, 6-7=-3385/336,
7-8=-4074/361, 8-9=-1985/187
BOT CHORD 2-16=-145/1364, 15-16=-49/568, 4-15=-31/584, 14-15=-301/3055, 13-14=-255/3055,
12-13=-255/3059, 11-12=-32/567, 7-12=-12/582, 9-11=-111/1364
WEBS 3-16=-884/97, 5-14=-107/1109, 6-13=-112/1113, 8-11=-883/69, 3-15=-279/2862,
8-12=-223/2864

NOTES-

- 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: 2x4 - 1 row at 0-9-0 oc, 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 roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=132, 9=132.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and conforms to standard ANSI/TPI 1.



October 14, 2020

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	H1	Hip Girder	1	2	I43185915

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:19:56 2020 Page 2
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-aAum_8goV07ivJLW4jFeM8aEYvaLa1T9pz0myuyTrLH

NOTES-

12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 7-6-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.

13) Fill all nail holes where hanger is in contact with lumber.

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 603 lb down and 127 lb up at 5-5-4, and 603 lb down and 127 lb up at 9-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-51, 5-6=-61, 6-10=-51, 2-16=-20, 12-15=-20, 9-11=-20
Concentrated Loads (lb)
Vert: 14=-603(F) 13=-603(F) 19=-239(F)

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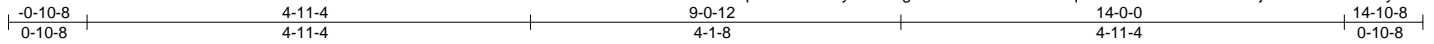
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185916
H3-6	H2	Hip Girder	1	2	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

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ID:Fpza38BVdcFyJDKwxgHN8dzrCCb-WZ0WPqj21eNP9cVvB8H6SZfhUjP02?4SHHVt0myTrLF



Scale = 1:25.7

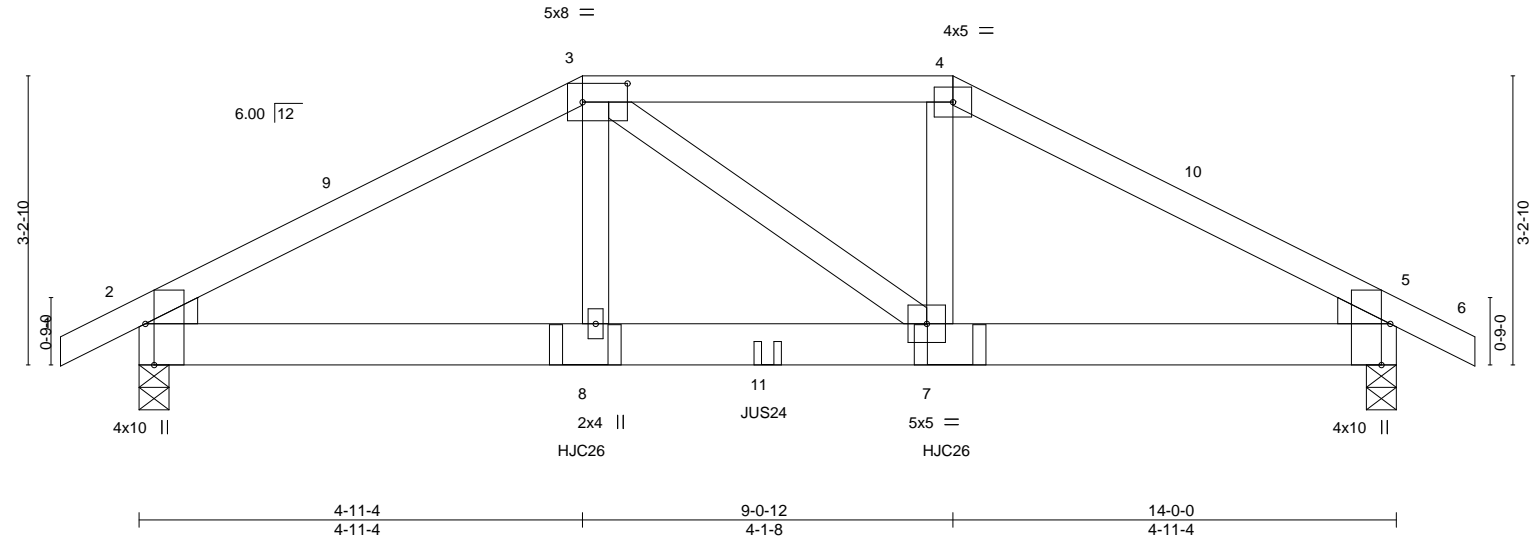


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [3:0-6-0,0-2-8], [5:0-5-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.41	Vert(LL)	-0.02	7-8	>999	360	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.25	Vert(CT)	-0.04	7-8	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.01	5	n/a	n/a		
BCLL 0.0	Rep Stress Incr NO	Matrix-P							
BCDL 10.0	Code IRC2018/TPI2014								
								Weight: 148 lb	FT = 3%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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=0-4-0, 5=0-4-0
Max Horz 2=-33(LC 55)
Max Uplift 2=-114(LC 11), 5=-114(LC 12)
Max Grav 2=1298(LC 34), 5=1298(LC 34)

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

TOP CHORD 2-3=-1961/186, 3-4=-1641/189, 4-5=-1961/186
BOT CHORD 2-8=-151/1607, 7-8=-154/1642, 5-7=-133/1607
WEBS 3-8=-50/690, 4-7=-62/722

NOTES-

- 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.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=114, 5=114.
- 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 USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 4-0-12 oc max. starting at 4-11-10 from the left end to 9-0-6 to connect truss(es) to back face of bottom chord.

Continued on page 2



October 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	H2	Hip Girder	1	2	I43185916
					Job Reference (optional)

Mid America Truss,
Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc.
Tue Oct 13 11:19:58 2020
Page 2
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- NOTES-**
- 13) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 7-0-0 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.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-51, 3-4=-61, 4-6=-51, 2-5=-20

Concentrated Loads (lb)

Vert: 8=-485(B) 7=-485(B) 11=-215(B)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	J1	Jack-Closed	3	1	
					Job Reference (optional)

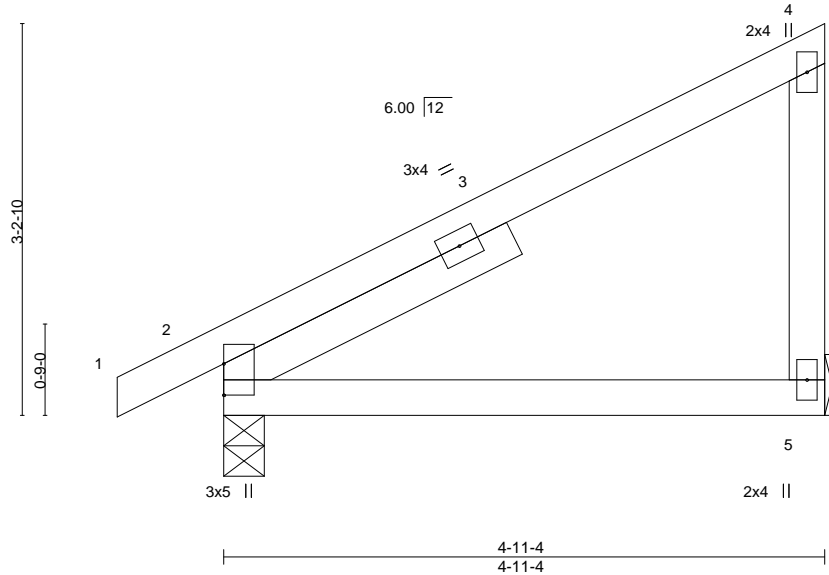
I43185917

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:19:59 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-_laucAigoxVGmm45IroL_mCpY7I6nTibWxFQZDyTrLE

-0-10-8 4-11-4
0-10-8 4-11-4

Scale = 1:18.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) 0.00 2 **** 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.03 2-5 >999 240		
BCLL 0.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 25 lb	FT = 3%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 2-7-14

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 2=0-4-0
Max Horz 2=93(LC 10)
Max Uplift 5=-21(LC 11), 2=-10(LC 11)
Max Grav 5=235(LC 16), 2=287(LC 16)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.



October 14, 2020

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Chesterfield, MO 63017

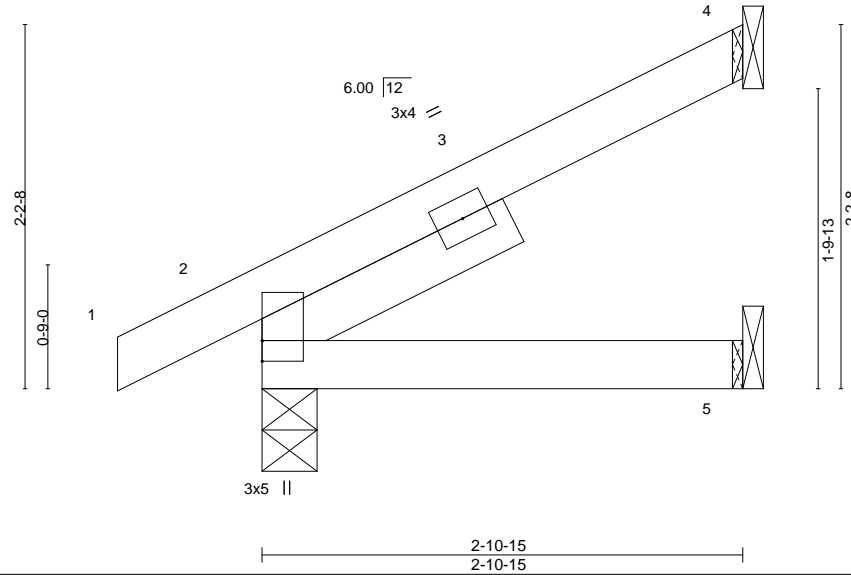
Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185918
H3-6	J2	Jack-Open	4	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:19:59 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-_laucAigoxVGmm45IroL_mCwB7oCnTibWxFQZDyTrLE

-0-10-8 2-10-15
0-10-8 2-10-15

Scale = 1:14.0



LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.15	in (loc) 2	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) 0.00		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00		
BCLL 0.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 13 lb	FT = 3%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.2 - t 1-8-4

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=53(LC 11)
Max Uplift 4=39(LC 11)
Max Grav 4=98(LC 16), 2=213(LC 16), 5=28(LC 1)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 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.



October 14, 2020

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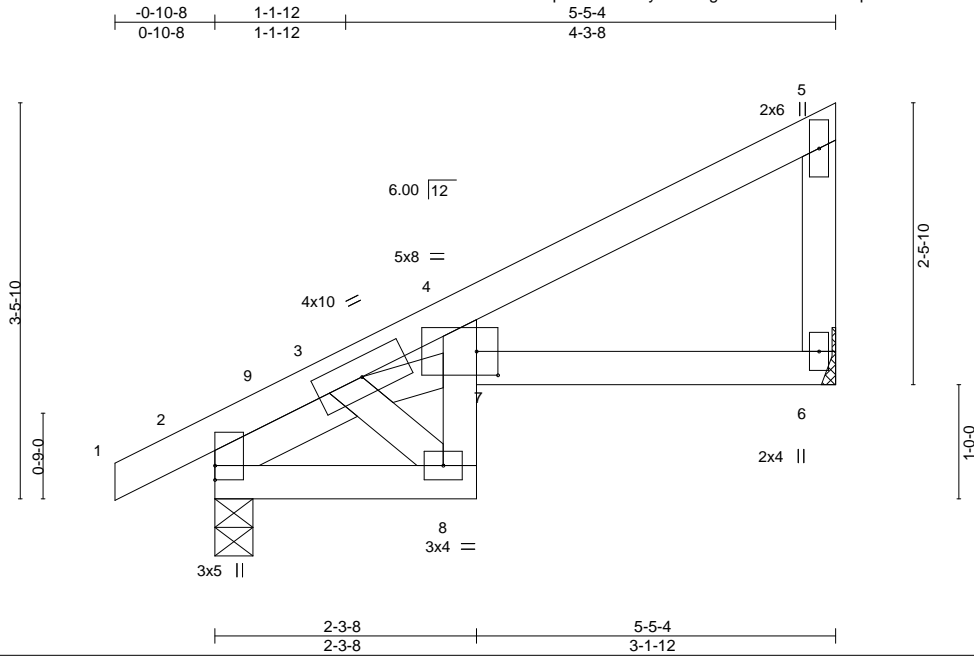


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185919
H3-6	J3	Jack-Closed	3	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:00 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-Tx8GqWklZFd7OwflJZJaX_k15X3jWvvlkb_z5fyTrLD



Scale = 1:20.2

Plate Offsets (X,Y)-- [4:0-2-4,0-2-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0		TC	0.40	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.37	7	>999		244/190
TCDL	10.0	Lumber DOL	1.15	WB	0.07	7	>790		
BCLL	0.0	Rep Stress Incr	YES	Matrix-SH		6	n/a		
BCDL	10.0	Code IRC2018/TPI2014						Weight: 28 lb	FT = 3%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 1-3-11

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 2=0-4-0
Max Horz 2=89(LC 8)
Max Uplift 6=-24(LC 11), 2=-8(LC 11)
Max Grav 6=259(LC 16), 2=294(LC 16)

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

TOP CHORD 2-3=-319/7, 3-4=-449/29
WEBS 3-7=-45/269

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.



October 14, 2020

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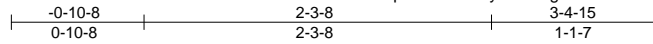


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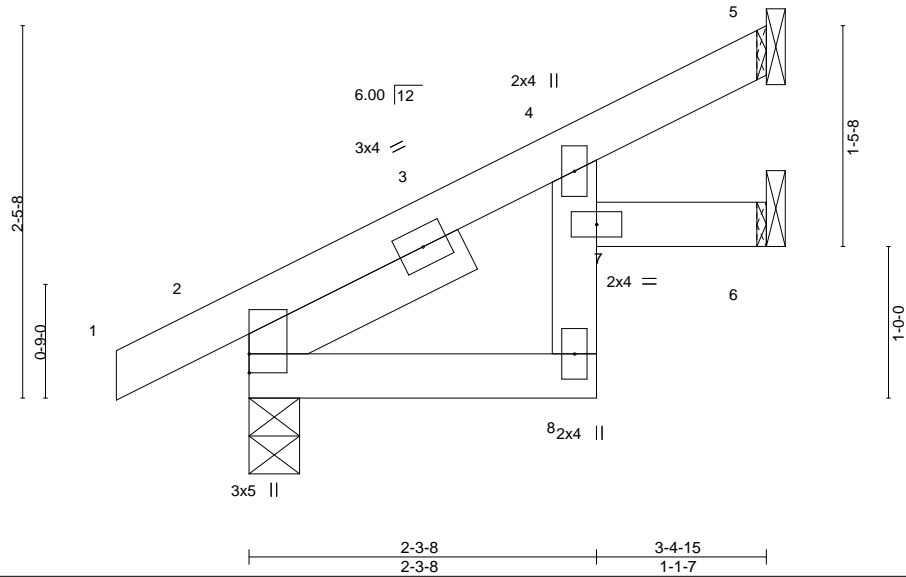
Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	J4	Jack-Open	4	1	I43185920

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:01 2020 Page 1
ID:Fpza38BVdcFyJDKwXgHN8dzTCCb-x8ie1skxKZL_04EUtGqp3BHewSCFNbuzFkXd5yTrLC



Scale = 1:15.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) -0.00 7 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.01 8 >999 240		
BCLL 0.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 17 lb	FT = 3%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.2 - t 1-7-3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 2=0-4-0, 6=Mechanical
Max Horz 2=60(LC 11)
Max Uplift 5=18(LC 11), 6=7(LC 11)
Max Grav 5=82(LC 16), 2=239(LC 16), 6=72(LC 16)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.
- 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.



October 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	J5	Jack-Open	4	1	
					Job Reference (optional)

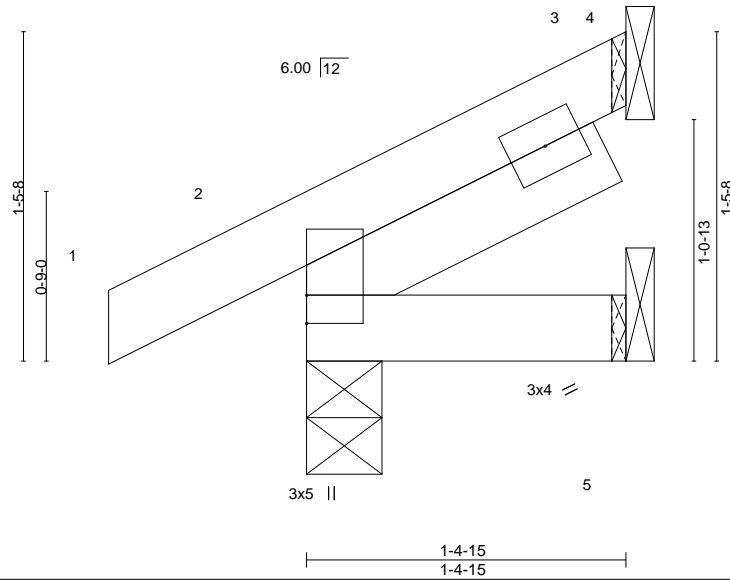
I43185921

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:01 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dzrCCb-x8ie1skxKZL_04EUtGqp3BHH2wUSFNbuzFkXd5yTrLC

-0-10-8 1-4-15
0-10-8 1-4-15

Scale = 1:10.2



LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.01	Vert(LL) 0.00 2 **** 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 2 >999 240		
BCLL 0.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 8 lb	FT = 3%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.2 - t 1-5-11

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-4-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-0, 5=Mechanical, 3=Mechanical
Max Horz 2=32(LC 11)
Max Uplift 2=-2(LC 11), 3=-22(LC 11)
Max Grav 2=144(LC 16), 5=14(LC 1), 3=31(LC 16)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
- 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.



October 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185922
H3-6	T1	Common	4	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:02 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-PKF1EBIZ5strdEogQ_L2cPqM5Kge_nN2CvT49YyTrLB

0-10-8 5-1-0 10-2-0 15-3-0 20-4-0 21-2-8
0-10-8 5-1-0 5-1-0 5-1-0 5-1-0 0-10-8

Scale = 1:37.9

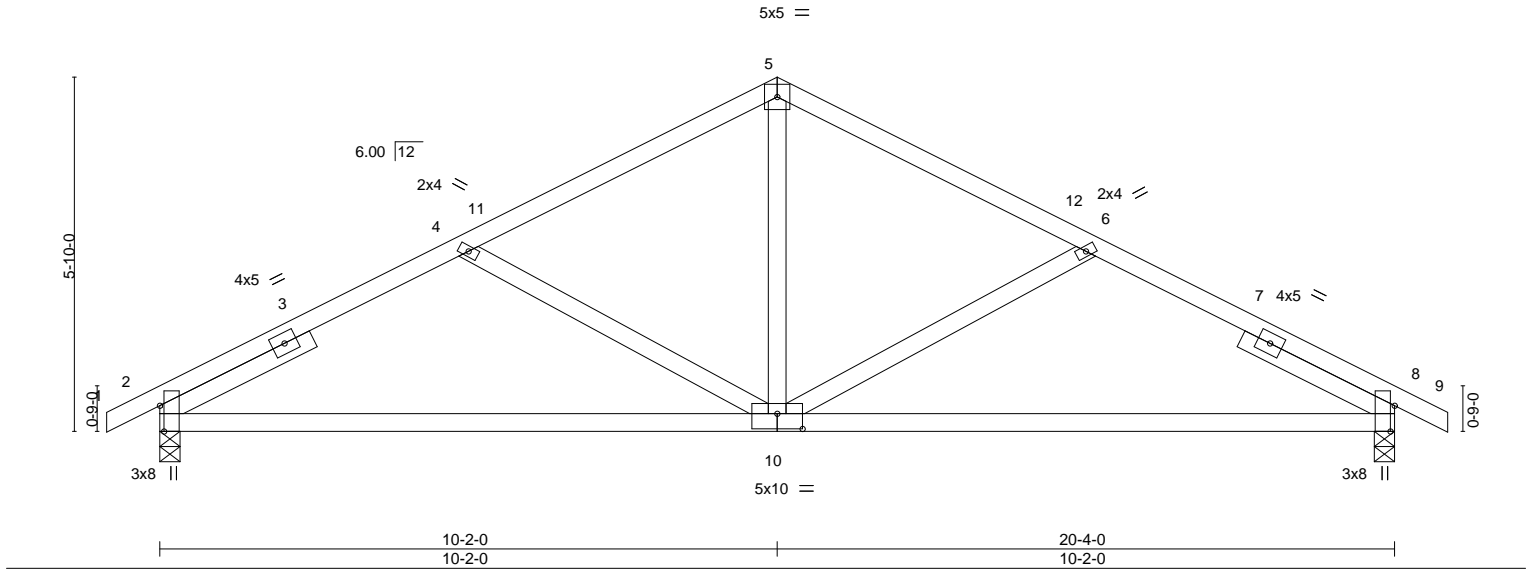


Plate Offsets (X,Y)-- [2:0-5-1,Edge], [8:0-5-1,Edge], [10:0-5-0,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.04	10	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.18	2-10	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 100 lb	FT = 3%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-3-6 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
SLIDER	Left 2x4 SP No.2 -t 2-9-12, Right 2x4 SP No.2 -t 2-9-12		

REACTIONS. (size) 2=0-4-0, 8=0-4-0
Max Horz 2=63(LC 8)
Max Uplift 2=-20(LC 11), 8=-20(LC 12)
Max Grav 2=866(LC 2), 8=866(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1260/62, 4-5=-956/32, 5-6=-956/32, 6-8=-1260/62
BOT CHORD 2-10=-50/1040, 8-10=0/1040
WEBS 5-10=0/481, 6-10=-320/124, 4-10=-320/123

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



October 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185923
H3-6	T1G	Roof Special Girder	1	2	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:14 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-2e_Zmlu5GYO834j_7VZs5xKtbAs9o7xpymNjbryTrL?



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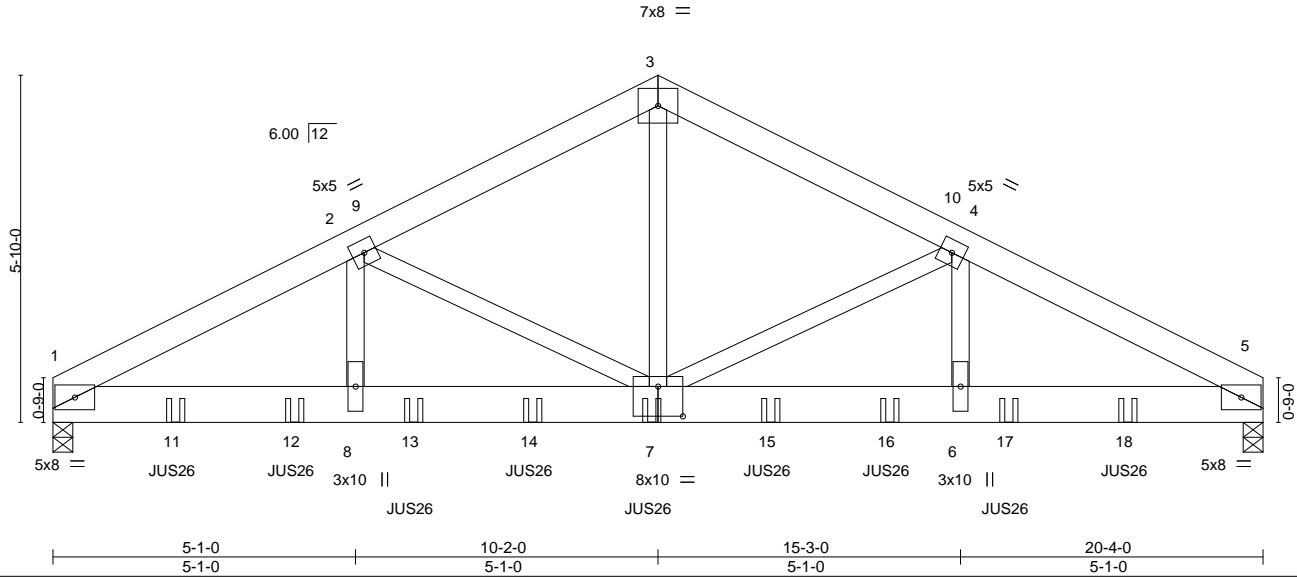


Plate Offsets (X,Y)-- [7:0-5-0,0-6-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.20	Vert(LL)	-0.06	6-7	>999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.29	Vert(CT)	-0.13	6-7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.54	Horz(CT)	0.04	5	n/a		
BCLL 0.0	Rep Stress Incr NO	Matrix-SH						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 292 lb	FT = 3%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-4-0, 5=0-4-0
Max Horz 1=60(LC 33)
Max Uplift 1=100(LC 11), 5=98(LC 12)
Max Grav 1=4471(LC 2), 5=4404(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-7614/179, 2-3=-5408/155, 3-4=-5408/155, 4-5=-7616/180
BOT CHORD 1-8=-162/6612, 7-8=-162/6612, 6-7=-108/6612, 5-6=-108/6612
WEBS 3-7=-70/4421, 4-7=-2083/123, 4-6=0/1978, 2-7=-2083/122, 2-8=0/1973

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 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 roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.
- Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 18-0-12 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-51, 3-5=-51, 1-5=-20

Continued on page 2



October 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	T1G	Roof Special Girder	1	2	I43185923
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:14 2020 Page 2
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-2e_Zmlu5GYO834j_7VZs5xKTbAs9o7xpymNjbryTrL?

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-738(B) 11=-738(B) 12=-738(B) 13=-738(B) 14=-738(B) 15=-738(B) 16=-738(B) 17=-738(B) 18=-738(B)

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185924
H3-6	T1GE	Common Supported Gable	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:15 2020 Page 1

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-WqYxzjev1sW?hElAhC45e8sgWaGWXihyBQ7G7HyTrL_

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0-10-8 10-2-0 10-2-0 0-10-8

Scale = 1:42.2

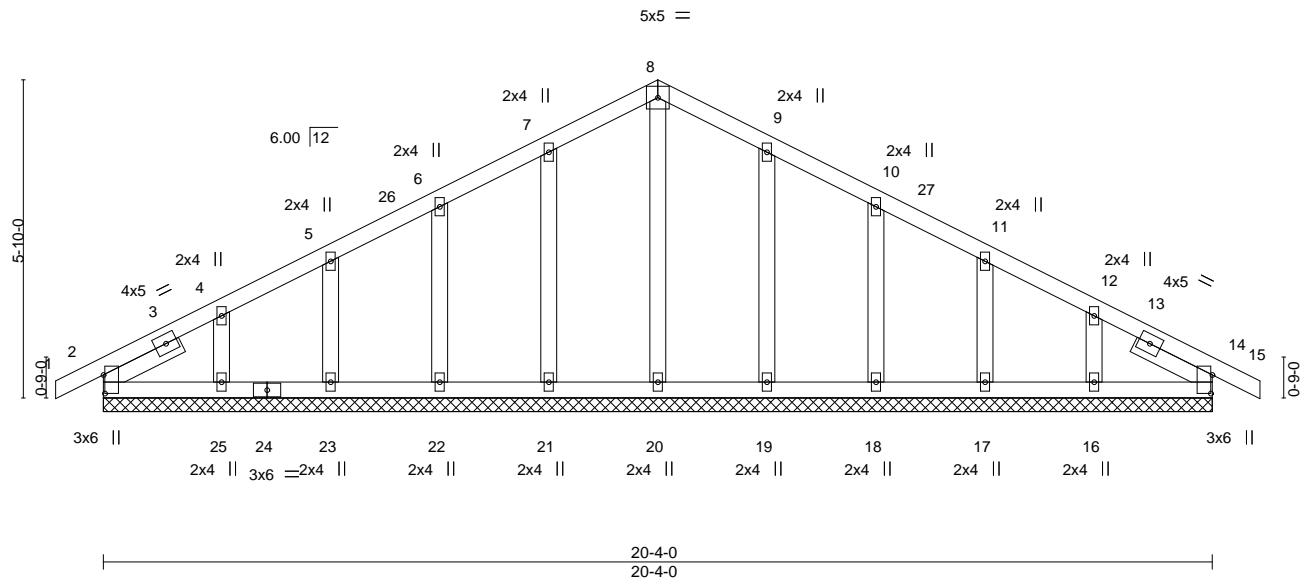


Plate Offsets (X,Y)-- [2:0-4-1,0-0-5], [14:0-4-1,0-0-5]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	Vert(LL)	-0.00	14	n/r	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	-0.00	14	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	14	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-SH						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 113 lb	FT = 3%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 1-7-3, Right 2x4 SP No.2 -t 1-7-3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 20-4-0.
(lb) - Max Horz 2=63(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 2, 21, 22, 23, 25, 19, 18, 17, 16
Max Grav All reactions 250 lb or less at joint(s) 2, 20, 21, 22, 23, 25, 19, 18, 17, 16, 14

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 21, 22, 23, 25, 19, 18, 17, 16.
- 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.



October 14, 2020

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185925
H3-6	T2	Roof Special	10	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:16 2020 Page 1
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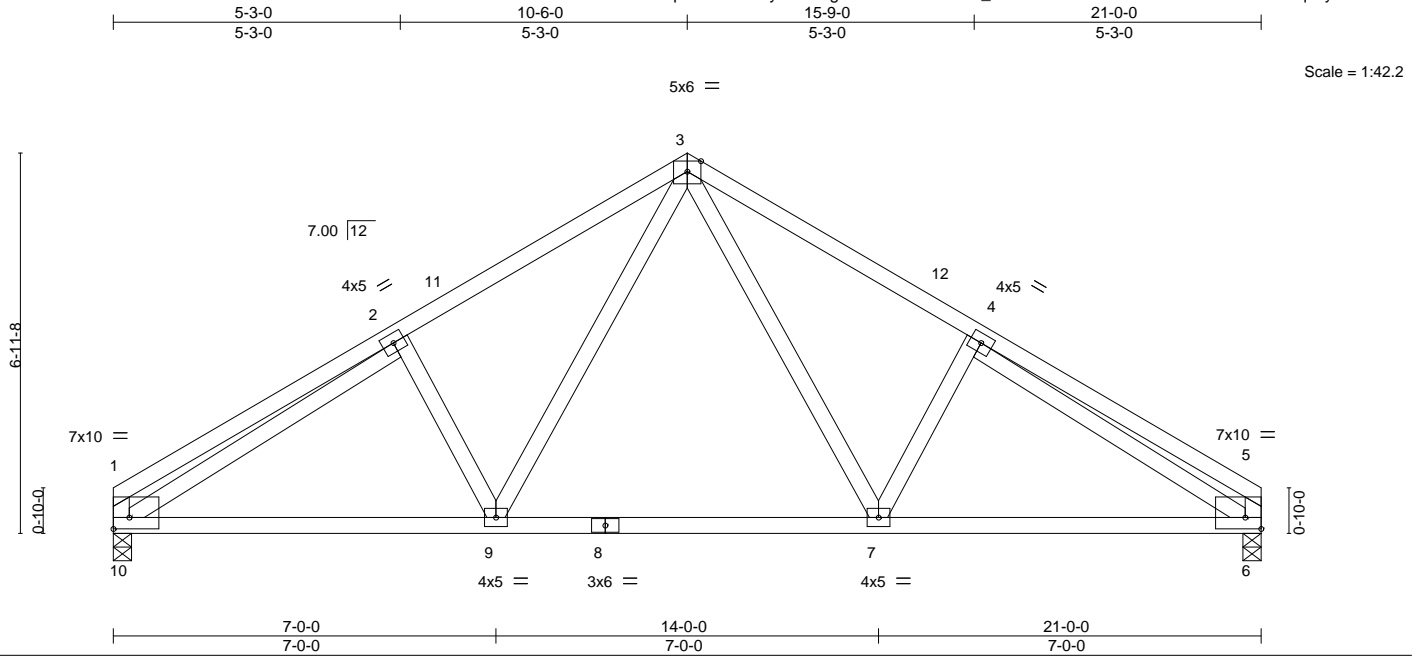


Plate Offsets (X,Y)-- [1:Edge,0-2-8], [5:Edge,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.44	Vert(LL)	-0.03	7-9	>999	360	MT20
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.38	Vert(CT)	-0.09	7-9	>999	240	244/190
TCDL 10.0	Lumber DOL 1.15	WB 0.57	Horz(CT)	0.03	6	n/a	n/a	
BCLL 0.0	Rep Stress Incr YES	Matrix-SH						
BCDL 10.0	Code IRC2018/TPI2014							
							Weight: 119 lb	FT = 3%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-11 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 10=0-4-0, 6=0-4-0
Max Horz 10=145(LC 8)
Max Uplift 10=-8(LC 11), 6=-8(LC 12)
Max Grav 10=828(LC 2), 6=828(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-317/51, 2-3=-1047/79, 3-4=-1047/79, 4-5=-317/51, 1-10=-264/51, 5-6=-264/51
BOT CHORD 9-10=-38/933, 7-9=0/651, 6-7=0/929
WEBS 3-7=-37/411, 3-9=-37/410, 2-10=-874/0, 4-6=-874/0

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Plates checked for a plus or minus 3 degree rotation about its center.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 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.



October 14, 2020

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	T2GE	Roof Special Supported Gable	1	1	I43185926

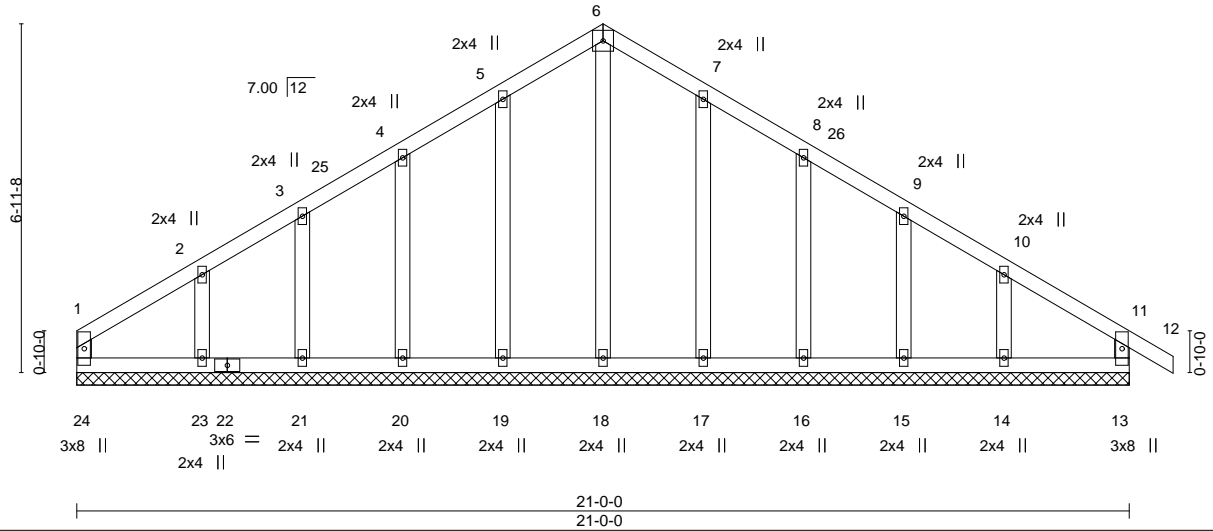
Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:17 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-TDfiOKxzZTmjXsZpd7ZjZy0VNxN?biFekcNAAyTrKy

10-6-0 21-0-0 21-10-8
10-6-0 10-6-0 0-10-8

5x5 =

Scale = 1:46.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.10	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.07	Vert(LL) -0.00 12 n/r 120		
TCDL 10.0	Rep Stress Incr YES	WB 0.09	Vert(CT) -0.00 12 n/r 90		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.00 13 n/a n/a		
BCDL 10.0				Weight: 122 lb	FT = 3%

LUMBER-

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

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 21-0-0.

(lb) - Max Horz 24=-153(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 24, 13, 19, 20, 21, 23, 17, 16, 15, 14

Max Grav All reactions 250 lb or less at joint(s) 24, 13, 18, 19, 20, 21, 23, 17, 16, 15, 14

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 13, 19, 20, 21, 23, 17, 16, 15, 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 14, 2020

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185927
H3-6	T3	Piggyback Base	3	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:19 2020 Page 1

ID:Fpza38BVdcFyJDKwxgHN8dzlCCb-PbnSp?yD550RArcxw291o_1BFBQgTPzY625UF2yTrKw

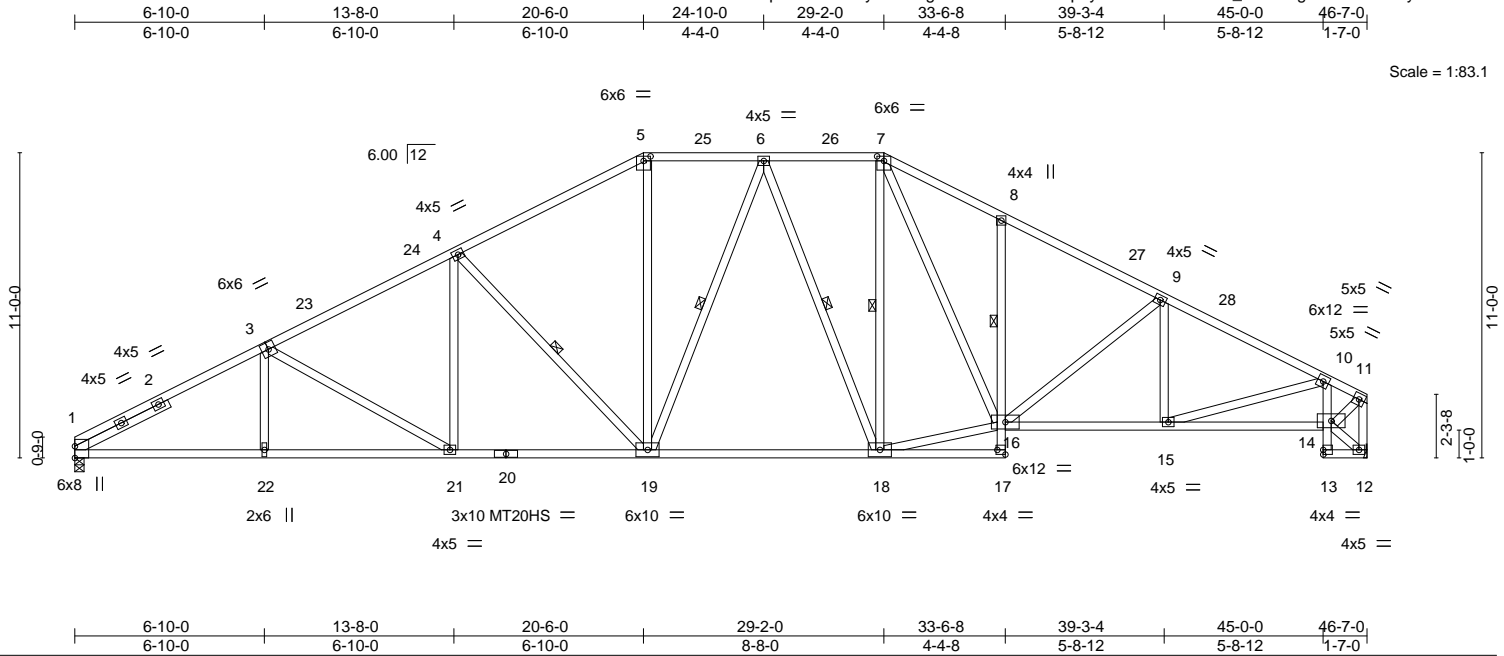


Plate Offsets (X,Y)--		[5:0-3-0,0-2-0], [7:0-3-0,0-2-0], [17:Edge,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0		TC	0.79	in (loc)	L/defl	MT20		244/190	
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15	BC	0.85	Vert(LL)	-0.21 19	MT20HS		187/143	
TCDL	10.0	Lumber DOL	1.15	WB	0.49	Vert(CT)	-0.46 18-19	Weight: 327 lb		FT = 3%	
BCLL	0.0	Rep Stress Incr	YES	Matrix-SH		Horz(CT)	0.22 12				
BCDL	10.0	Code	IRC2018/TPI2014								

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 "Except"	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
	3-5: 2x4 SP No.1, 1-3: 2x4 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
BOT CHORD	2x4 SP No.2 "Except"		1 Row at midpt 8-16
	1-20: 2x4 SP No.1	WEBS	1 Row at midpt 4-19, 6-19, 6-18, 7-18
WEBS	2x4 SP No.2		
SLIDER	Left 2x4 SP No.2 -t 3-9-9		

REACTIONS. (size) 1=0-4-0, 12=Mechanical
Max Horz 1=166(LC 10)
Max Uplift 1=-13(LC 11)
Max Grav 1=1958(LC 33), 12=2005(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-3583/33, 3-4=-3173/53, 4-5=-2543/67, 5-6=-2145/87, 6-7=-2030/70,
7-8=-2936/109, 8-9=-2964/30, 9-10=-3143/9, 10-11=-1655/4, 11-12=-1945/0
BOT CHORD 1-22=-71/3060, 21-22=-72/3057, 19-21=0/2779, 18-19=0/2105, 8-16=-473/126,
15-16=0/2755, 14-15=-29/1564, 10-14=-1183/58
WEBS 3-21=-385/94, 4-21=0/331, 4-19=-930/130, 5-19=0/727, 6-18=-429/95, 16-18=0/2002,
7-16=-105/1263, 9-16=-263/85, 10-15=0/1240, 11-14=-19/1896

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - Plates checked for a plus or minus 3 degree rotation about its center.
 - 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) 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.



October 14,2020

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185930
H3-6	T3GE	GABLE	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:26 2020 Page 1
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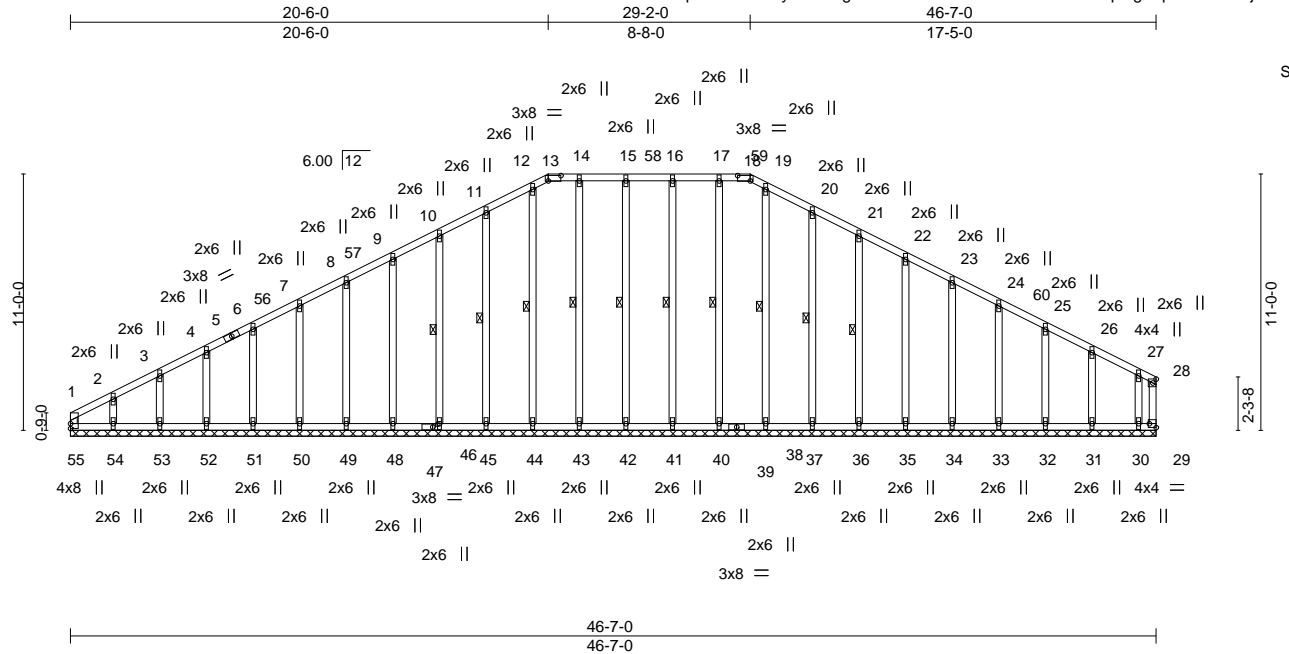


Plate Offsets (X,Y)-- [13:0-6-8,0-2-12], [18:0-6-8,0-2-12], [29:Edge,0-2-0], [47:0-2-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.00	29	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-R						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 376 lb	FT = 3%

LUMBER-

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

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.
WEBS 1 Row at midpt 10-46, 11-45, 12-44, 14-43, 15-42, 16-41, 17-40, 19-38, 20-37, 21-36

REACTIONS.

All bearings 46-7-0.
(lb) - Max Horz 55=164(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 55, 29, 54, 53, 52, 51, 50, 49, 48, 46, 45, 42, 41, 37, 36, 35, 34, 33, 32, 31 except 30=109(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 55, 29, 54, 53, 52, 51, 50, 49, 48, 46, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 55, 29, 54, 53, 52, 51, 50, 49, 48, 46, 45, 42, 41, 37, 36, 35, 34, 33, 32, 31 except (jt=lb) 30=109.
- 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.



October 14, 2020

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185931
H3-6	T4	Common	2	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:28 2020 Page 1
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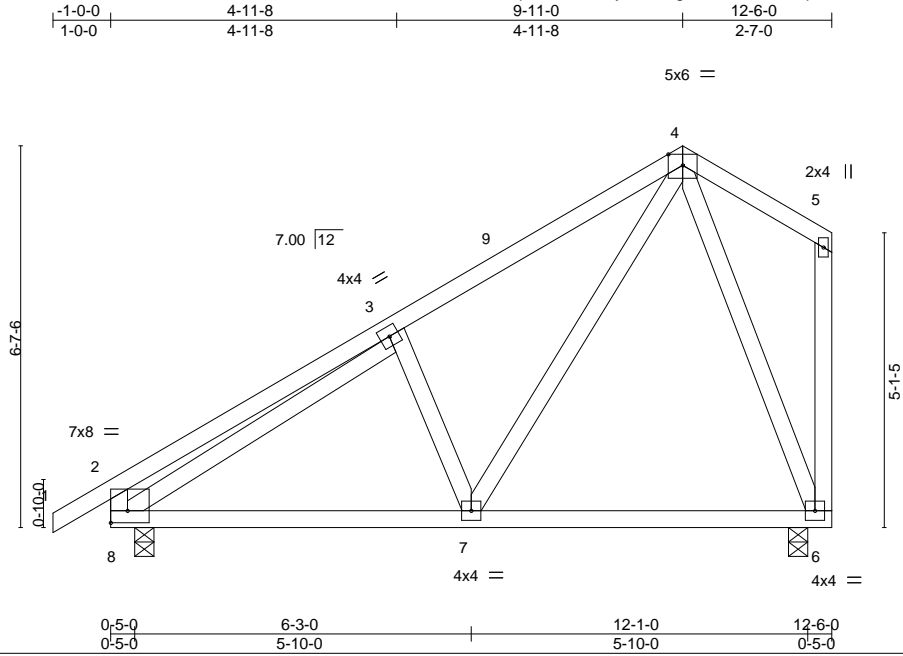


Plate Offsets (X,Y)-- [2:Edge,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.37	Vert(LL)	-0.01	7	>999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.31	Vert(CT)	-0.05	7-8	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.33	Horz(CT)	0.01	6	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 83 lb	FT = 3%

LUMBER-

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

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=0-4-0, 8=0-4-0
Max Horz 8=196(LC 8)
Max Uplift 6=-23(LC 11), 8=-18(LC 11)
Max Grav 6=485(LC 2), 8=560(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-517/76
BOT CHORD 7-8=-73/499
WEBS 3-7=-277/139, 4-7=-44/472, 4-6=-409/38, 3-8=-566/0

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.



October 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185932
H3-6	T4GE	Common Structural Gable	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:29 2020 Page 1

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-6W0EvQ4V9k9H0NNNsW9KNC5R09D2dp090PcW0bTyTrKm

0-10-8 4-11-8 9-11-0 12-6-0
0-10-8 4-11-8 4-11-8 2-7-0

2x4 =

5x6 =

Scale = 1:45.0

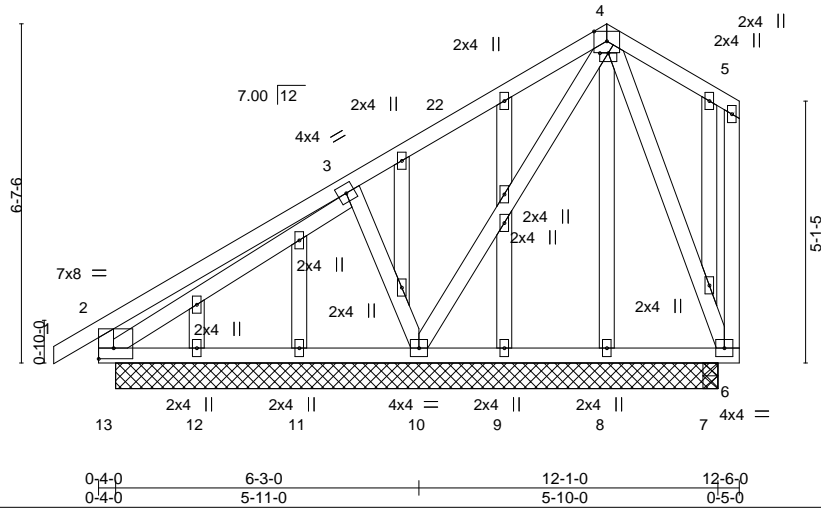


Plate Offsets (X,Y)-- [2:Edge,0-2-8], [4:0-2-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.37	Vert(LL)	-0.00	8	>999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	-0.00	11	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.13	Horz(CT)	-0.00	6	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 113 lb	FT = 3%

LUMBER-

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

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 11-9-0 except (jt=length) 7=0-3-8.
(lb) - Max Horz 13=195(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 10, 13, 6
Max Grav All reactions 250 lb or less at joint(s) 13, 6, 8, 9, 11, 12, 7 except 10=438(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-324/142

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 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.



October 14, 2020

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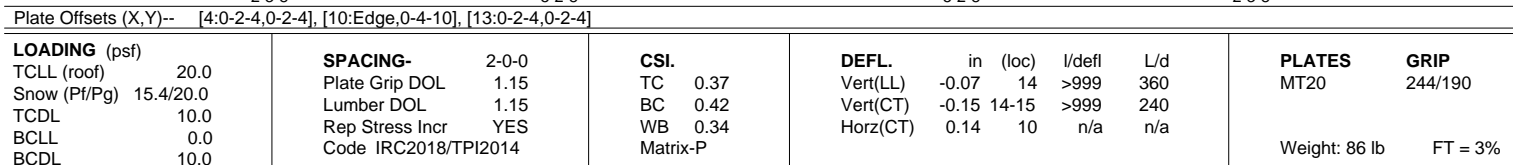
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Chesterfield, MO 63017

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ID:Fpza38BVdcFyJDKwxgHN8dztCCb-ajvc7m57VTPt_Xx33ssclJ_AydHwYP89eGGZ8wyTrKI

Scale = 1:29.8



BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 3-7-13 oc purlins.
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.

TOP CHORD 2-3=-790/20, 3-4=-1773/60, 4-5=-2064/106, 5-6=-852/9, 6-7=-852/15, 7-8=-2064/28, 8-9=-1773/0, 9-10=-790/20

BOT CHORD 2-16=-41/538, 15-16=-10/269, 14-15=-17/1066, 13-14=0/1066, 12-13=0/269, 10-12=0/538

WEBS 6-14=0/618, 7-14=-482/77, 1-16=0/10948, 9-12=-447/0, 5-14=-482/90, 5-15=-67/948, 3-16=-447/42, 3-15=-54/1366, 9-13=0/1366

October 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185934
H3-6	T5A	Roof Special	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:31 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dzCCb-2vVW_K66lGnXkchWFdZnRHWXLmOdBHsUJsw?6gMyTrKk

0-10-5	4-7-4	7-2-8	9-9-12	13-6-12	14-8-8
0-10-5	3-9-0	2-7-4	2-7-4	3-9-0	1-1-12

Scale = 1:29.1

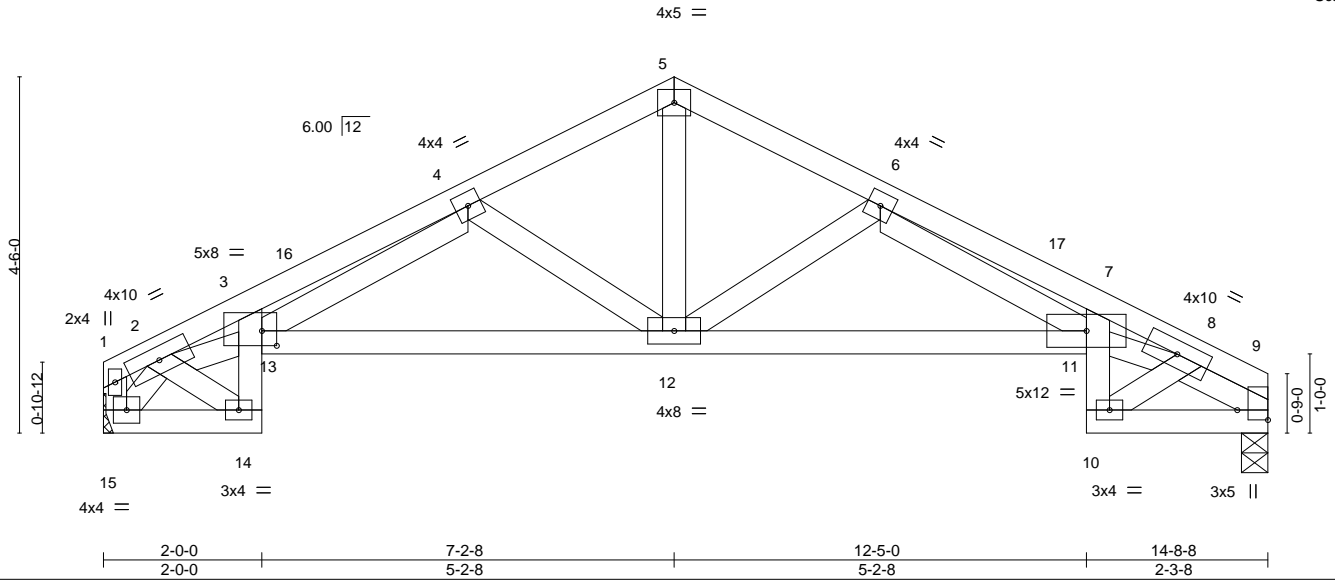


Plate Offsets (X,Y)-- [3:0-2-4,0-2-4], [9:Edge,0-4-10]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.37	Vert(LL)	-0.06	11	>999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.42	Vert(CT)	-0.13	11-12	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.33	Horz(CT)	0.12	9	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 82 lb	FT = 3%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Right 2x4 SP No.2 - t 1-2-2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-4-0, 15=Mechanical
Max Horz 15=-62(LC 7)
Max Uplift 9=-8(LC 12), 15=-6(LC 11)
Max Grav 9=582(LC 2), 15=582(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1489/52, 3-4=-1701/95, 4-5=-813/8, 5-6=-814/13, 6-7=-2035/36, 7-8=-1748/4, 8-9=-781/24
BOT CHORD 14-15=-29/338, 12-13=-15/978, 11-12=0/1033, 10-11=0/277, 9-10=-3/548
WEBS 2-14=-288/32, 4-13=-59/659, 4-12=-417/88, 6-12=-484/78, 6-11=-16/956, 8-10=-462/6, 5-12=0/581, 2-15=-644/13, 8-11=0/1345, 2-13=-49/1167

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Plates checked for a plus or minus 3 degree rotation about its center.
 - 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) 9, 15.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 14, 2020

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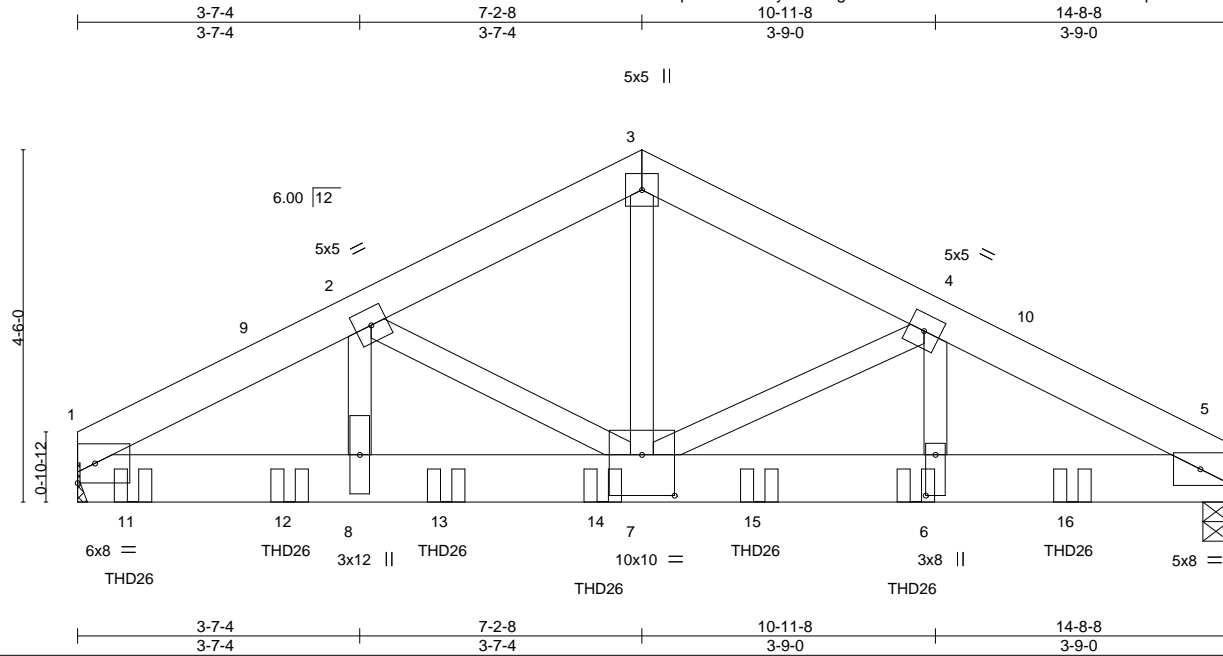


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	T5G	Roof Special Girder	1	2	Job Reference (optional)

I43185935

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:32 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dzlCCb-X53NXS6N14fbEr5RBHu4qk3OnQv0BZS5algCoyTrKj

Scale = 1:29.4

Plate Offsets (X,Y)-- [5:0-3-14,0-2-8], [6:0-6-4,0-1-8], [7:0-5-0,0-6-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.86	Vert(LL)	-0.07	6-7	>999	360	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.66	Vert(CT)	-0.13	6-7	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.85	Horz(CT)	0.04	5	n/a	n/a		
BCLL 0.0	Rep Stress Incr NO	Matrix-P							
BCDL 10.0	Code IRC2018/TPI2014								
								Weight: 212 lb	FT = 3%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=Mechanical, 5=0-4-0 (req. 0-4-2)
 Max Horz 1=45(LC 35)
 Max Grav 1=7624(LC 15), 5=6956(LC 16)

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

TOP CHORD 1-2=-11057/0, 2-3=-8201/0, 3-4=-8206/0, 4-5=-11405/0
 BOT CHORD 1-8=0/9392, 7-8=0/9392, 6-7=0/9807, 5-6=0/9807
 WEBS 2-8=0/3167, 2-7=-2405/0, 3-7=0/6940, 4-7=-2832/0, 4-6=0/3291

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 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 roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 3 degree rotation about its center.
- WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
- 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.
- Use USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent at 0-8-8 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.
- Use USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-8-8 from the left end to 12-8-8 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Continued on page 2



October 14, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	T5G	Roof Special Girder	1	2	I43185935
					Job Reference (optional)

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:32 2020 Page 2
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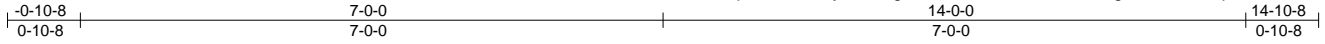
LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-3=-51, 3-5=-51, 1-5=-20
- Concentrated Loads (lb)
 - Vert: 6=-1985(F) 11=-1543(F) 12=-1985(F) 13=-1985(F) 14=-1985(F) 15=-1985(F) 16=-1985(F)

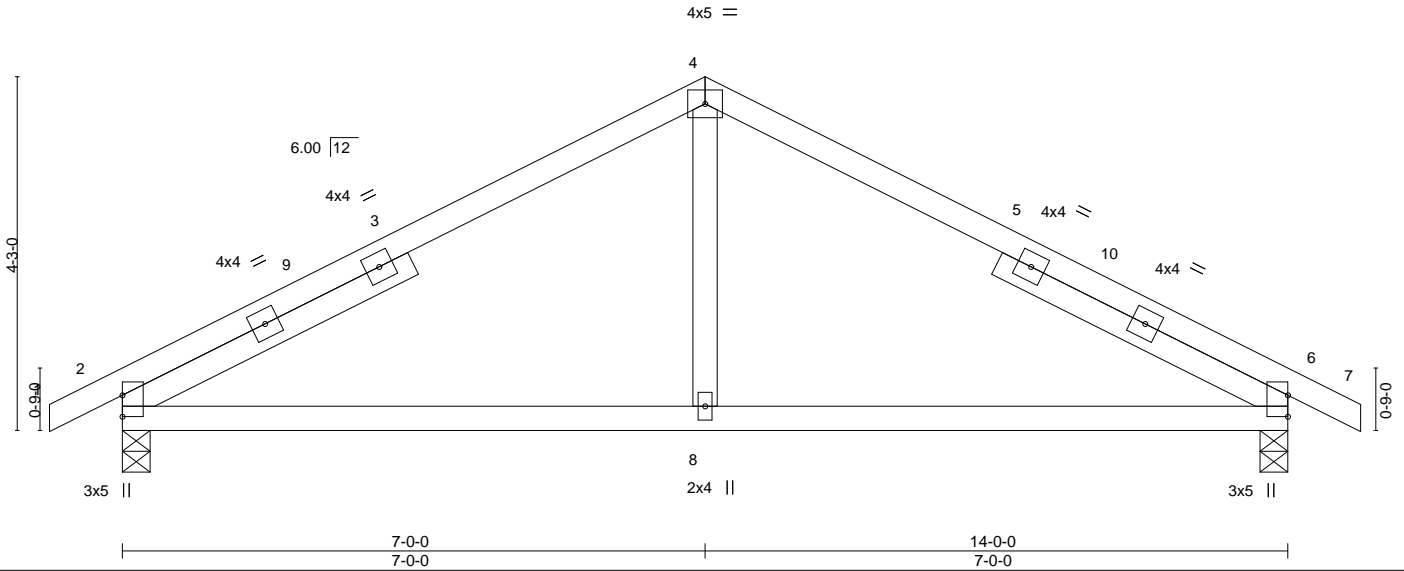
Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185936
H3-6	T6	Common	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:33 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-?ldllo7?oOnSr?gdl_PJMxcaKqJelrGcKEUDIFyTrKi



Scale = 1:27.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	0.02	8	>999	360	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.07	6-8	>999	240	
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	6	n/a	n/a	
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0										
								Weight: 64 lb		FT = 3%	

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-10-11, Right 2x4 SP No.2 -t 3-10-11

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-0, 6=0-4-0
Max Horz 2=45(LC 8)
Max Uplift 2=-16(LC 11), 6=-16(LC 12)
Max Grav 2=612(LC 2), 6=612(LC 2)

FORCES.

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

TOP CHORD 2-4=-693/4, 4-6=-692/0
BOT CHORD 2-8=0/524, 6-8=0/524

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



October 14, 2020

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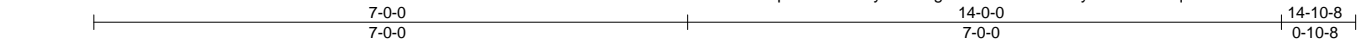


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Chesterfield, MO 63017

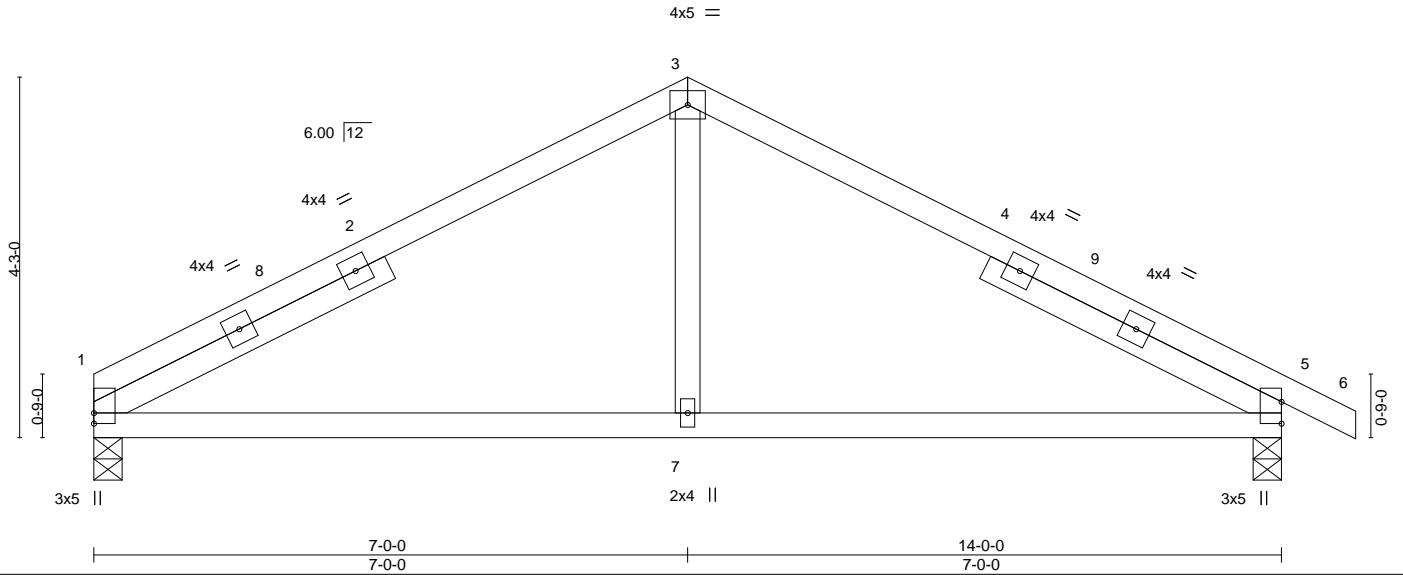
Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185937
H3-6	T6A	Common	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:34 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-TUB7y88dZivIT8FqliwYv99InEfrUIWIZtEnHhyTrKh



Scale = 1:27.2



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.83	Vert(LL)	0.02	7	>999	360	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.07	5-7	>999	240	
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	5	n/a	n/a	
BCLL	0.0	Code IRC2018/TPI2014		Matrix-P							
BCDL	10.0									Weight: 63 lb	FT = 3%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -t 3-10-11, Right 2x4 SP No.2 -t 3-10-11

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-4-0, 5=0-4-0
Max Horz 1=45(LC 8)
Max Uplift 1=-7(LC 11), 5=-16(LC 12)
Max Grav 1=558(LC 2), 5=614(LC 2)

FORCES.

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

TOP CHORD 1-3=-694/4, 3-5=-696/0
BOT CHORD 1-7=0/527, 5-7=0/527

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



October 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185938
H3-6	T7	Piggyback Base	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:35 2020 Page 1

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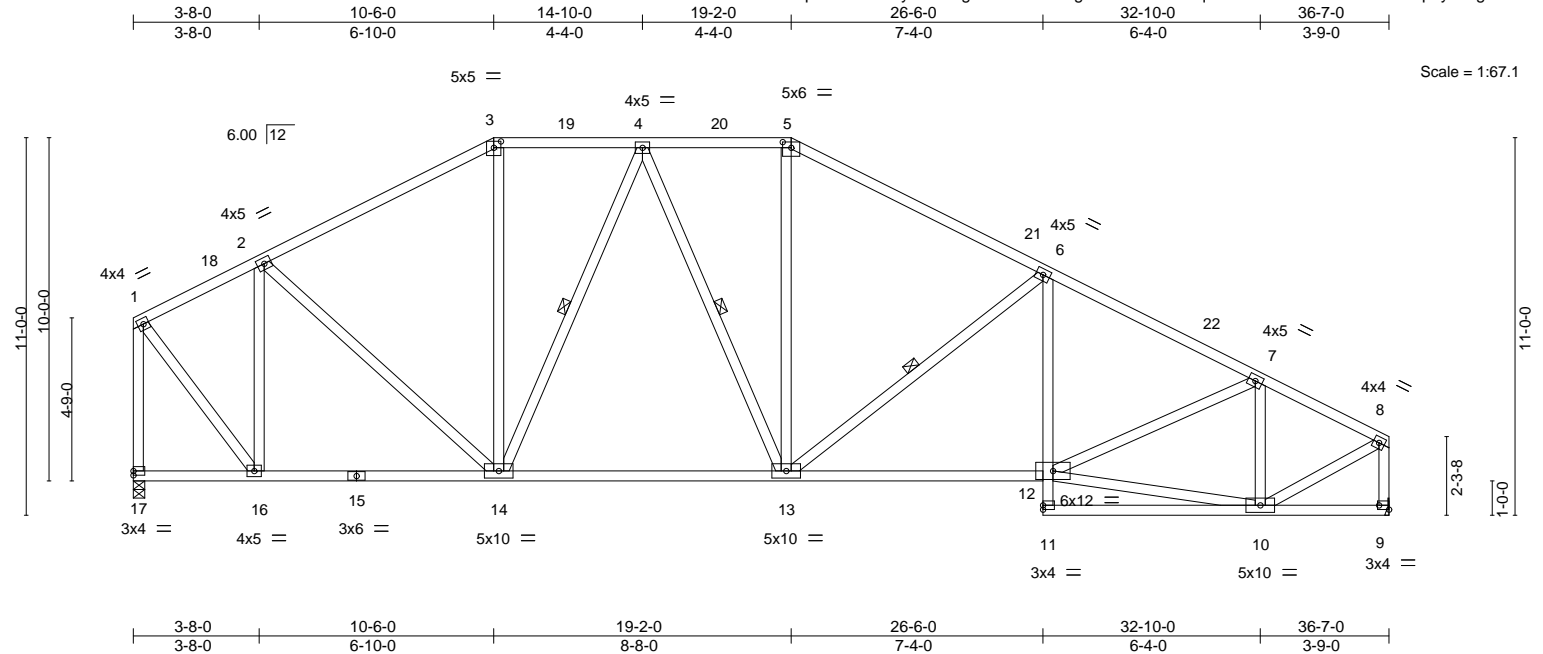


Plate Offsets (X,Y)-- [3:0-2-8,0-2-4], [5:0-3-0,0-2-0], [9:Edge,0-1-8]												
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.09	12-13	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.23	12-13	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.08	9	n/a	n/a		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 265 lb	FT = 3%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 5-8: 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 4-14, 4-13, 6-13

REACTIONS. (size) 17=0-4-0, 9=Mechanical
Max Horz 17=-223(LC 7)
Max Uplift 9=-14(LC 12)
Max Grav 17=1634(LC 33), 9=1559(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-987/21, 2-3=-1465/49, 3-4=-1182/57, 4-5=-1452/89, 5-6=-1783/66, 6-7=-2315/56,
7-8=-1572/24, 1-17=-1610/0, 8-9=-1531/25
BOT CHORD 14-16=-36/871, 13-14=0/1327, 12-13=0/2026
WEBS 2-16=-1005/59, 2-14=-17/509, 3-14=0/297, 4-14=-518/78, 4-13=-34/318, 5-13=0/348,
6-13=-735/131, 10-12=0/1304, 7-12=0/684, 7-10=-886/71, 1-16=0/1413, 8-10=0/1573

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - Plates checked for a plus or minus 3 degree rotation about its center.
 - 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) 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.



October 14, 2020

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185939
H3-6	T8	Piggyback Base	2	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

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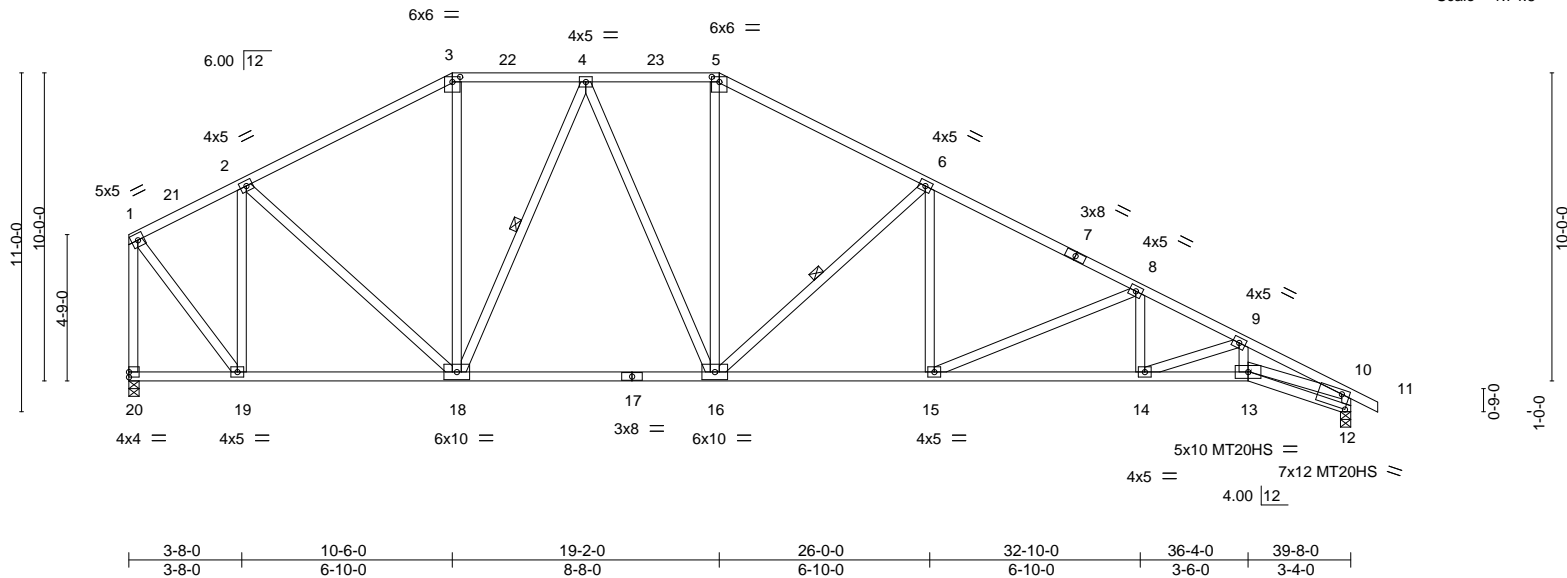


Plate Offsets (X,Y)-- [3:0-3-0,0-2-0], [5:0-3-0,0-2-0], [12:0-3-0,0-5-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.97	Vert(LL)	-0.22 14-15	>999	360	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.78	Vert(CT)	-0.46 14-15	>999	240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.92	Horz(CT)	0.21 12	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-SH						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 269 lb	FT = 3%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
13-17: 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-18, 6-16

REACTIONS.

(size) 20=0-4-0, 12=0-4-0
Max Horz 20=-235(LC 7)
Max Uplift 12=-37(LC 12)
Max Grav 20=1762(LC 34), 12=1693(LC 34)

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

TOP CHORD 1-2=-1067/22, 2-3=-1619/51, 3-4=-1322/58, 4-5=-1697/92, 5-6=-2041/73, 6-8=-2898/60,
8-9=-3751/55, 9-10=-4750/52, 1-20=-1737/0, 10-12=-1754/61
BOT CHORD 18-19=0/942, 16-18=0/1521, 15-16=0/2511, 14-15=0/3360, 13-14=-9/4090,
12-13=-22/468
WEBS 2-19=-1099/53, 2-18=-12/587, 3-18=0/361, 4-18=-644/74, 4-16=-35/444, 5-16=0/490,
6-16=-1105/126, 6-15=0/491, 8-15=-920/85, 8-14=0/403, 9-14=-803/43, 9-13=0/695,
1-19=0/1528, 10-13=0/3766

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Bearing at joint(s) 12 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) 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	T9	Piggyback Base	1	1	143185940

Mid America Truss, Jefferson City, MO - 65101,

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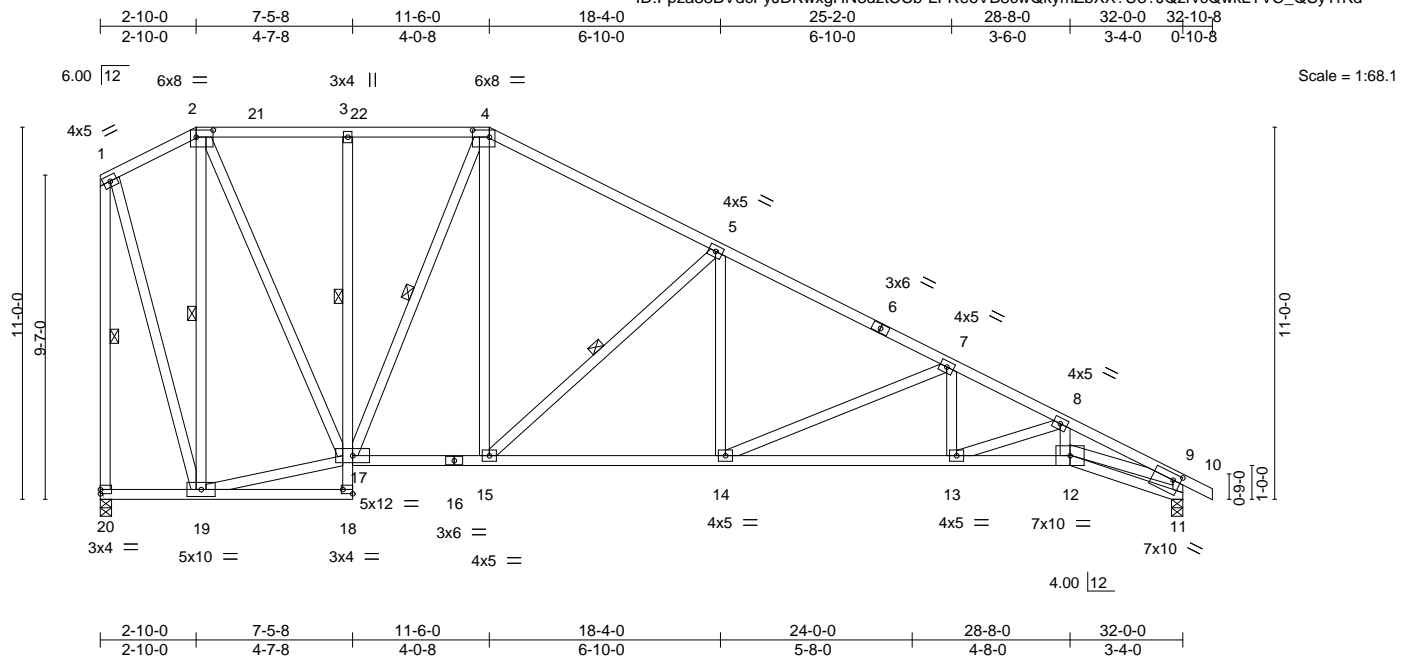


Plate Offsets (X,Y)-- [2:0-6-0,0-2-8], [4:0-6-0,0-2-8], [11:0-2-12,0-2-4], [18:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.88	Vert(LL)	-0.17 13-14	>999	360	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.88	Vert(CT)	-0.35 13-14	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.81	Horz(CT)	0.18 11	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-SH						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 259 lb	FT = 3%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP 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. Except:
1 Row at midpt 3-17
WEBS 1 Row at midpt 2-19, 4-17, 5-15, 1-20

REACTIONS.

(size) 20=0-4-0, 11=0-4-0
Max Horz 20=-330(LC 7)
Max Uplift 20=-19(LC 7), 11=-37(LC 12)
Max Grav 20=1267(LC 2), 11=1367(LC 34)

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

TOP CHORD 1-2=-386/97, 2-3=-733/77, 3-4=-734/76, 4-5=-1270/77, 5-7=-2115/60, 7-8=-2900/57,
8-9=-3741/53, 1-20=-1242/31, 9-11=-1413/62
BOT CHORD 19-20=-78/272, 3-17=-430/86, 15-17=0/1012, 14-15=0/1811, 13-14=0/2595,
12-13=-11/3211, 11-12=-22/386
WEBS 2-19=-999/72, 17-19=0/348, 2-17=-1/1044, 4-17=-755/51, 4-15=-7/851, 5-15=-1091/121,
5-14=0/476, 7-14=-850/87, 7-13=0/356, 8-13=-689/43, 8-12=0/562, 1-19=-55/1059,
9-12=0/2943

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Bearing at joint(s) 11 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) 20, 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.



October 14,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185941
H3-6	T10	Piggyback Base	2	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

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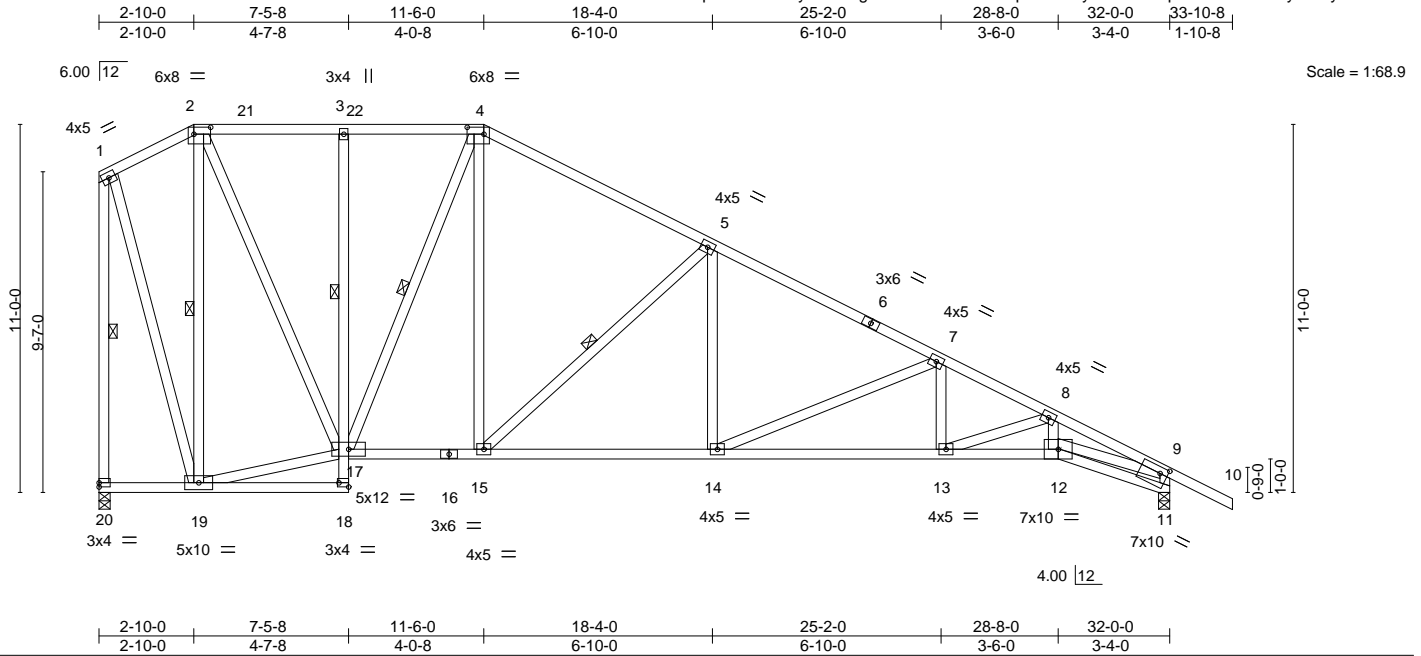


Plate Offsets (X,Y)-- [2:0-6-0,0-2-8], [4:0-6-0,0-2-8], [11:0-2-12,0-2-4], [18:Edge,0-1-8]																			
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL (roof) 20.0		Plate Grip DOL		1.15		TC 0.88		Vert(LL)		-0.17 13-14		>999		360		MT20		244/190	
Snow (Pf/Pg) 20.4/20.0		Lumber DOL		1.15		BC 0.86		Vert(CT)		-0.35 13-14		>999		240					
TCDL 10.0		Rep Stress Incr		YES		WB 0.79		Horz(CT)		0.18 11		n/a		n/a					
BCLL 0.0		Code IRC2018/TPI2014				Matrix-SH										Weight: 261 lb		FT = 3%	
BCDL 10.0																			

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 11-12.
	1 Row at midpt 3-17
	1 Row at midpt 2-19, 4-17, 5-15, 1-20

REACTIONS.	(size) 20=0-4-0, 11=0-4-0
	Max Horz 20=-337(LC 7)
	Max Uplift 20=-18(LC 7), 11=-48(LC 12)
	Max Grav 20=1264(LC 2), 11=1420(LC 34)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-385/97, 2-3=-731/75, 3-4=-732/75, 4-5=-1267/75, 5-7=-2107/56, 7-8=-2876/46, 8-9=-3672/26, 1-20=-1239/31, 9-11=-1435/62
BOT CHORD	19-20=-77/279, 3-17=-430/86, 15-17=0/1009, 14-15=0/1804, 13-14=0/2574, 12-13=0/3149, 11-12=-36/283
WEBS	2-19=-996/70, 17-19=0/353, 2-17=0/1040, 4-17=-752/50, 4-15=-6/847, 5-15=-1086/119, 5-14=0/470, 7-14=-835/81, 7-13=0/339, 8-13=-638/27, 8-12=0/535, 1-19=-55/1057, 9-12=0/2976

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - Plates checked for a plus or minus 3 degree rotation about its center.
 - Bearing at joint(s) 11 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) 20, 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.



October 14, 2020

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	T10A	Piggyback Base	1	1	I43185942

Mid America Truss, Jefferson City, MO - 65101,

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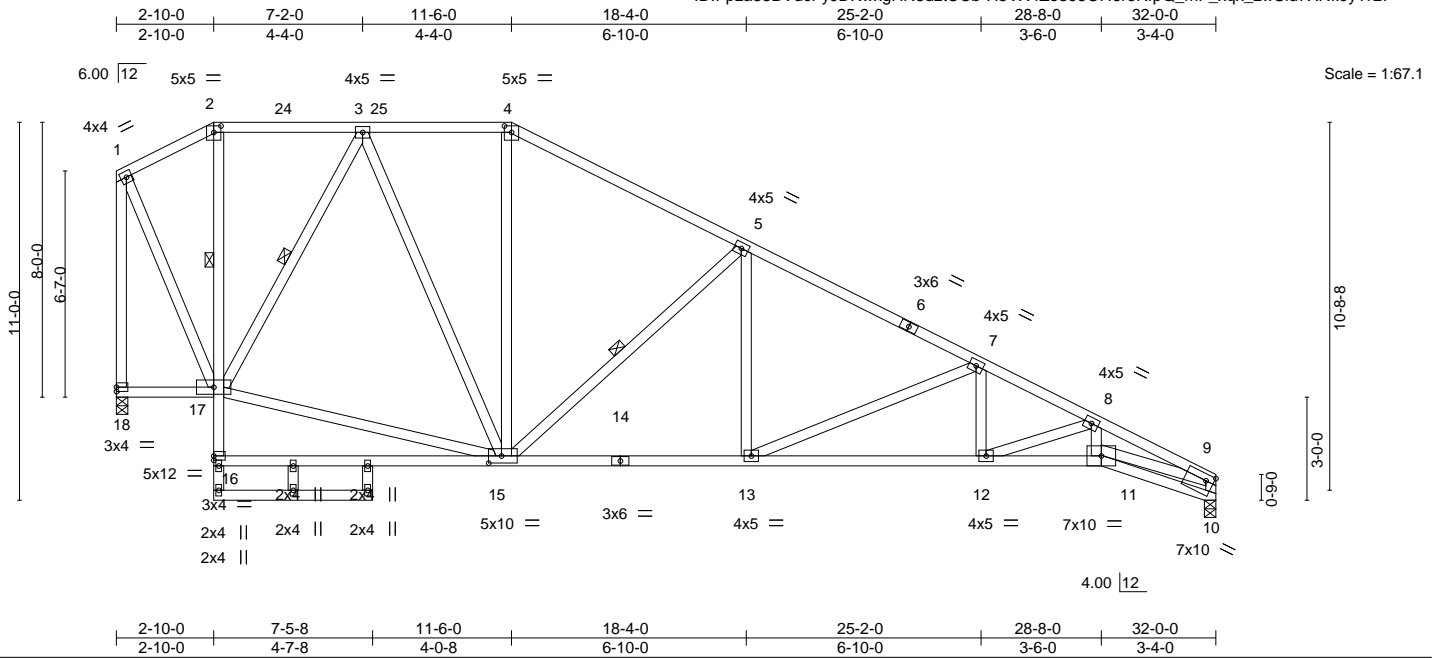


Plate Offsets (X,Y)-- [2:0-2-8,0-2-4], [4:0-2-8,0-2-4], [10:Edge,0-2-4], [15:0-4-8,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.96	Vert(LL)	-0.16 12-13	>999	360	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.89	Vert(CT)	-0.34 12-13	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.81	Horz(CT)	0.13 10	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-SH						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 245 lb	FT = 3%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP 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. Except:
1 Row at midpt 2-17
WEBS 1 Row at midpt 3-17, 5-15

REACTIONS.

(size) 18=0-4-0, 10=0-4-0
Max Horz 18=-285(LC 7)
Max Uplift 10=-39(LC 12)
Max Grav 18=1268(LC 2), 10=1314(LC 33)

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

TOP CHORD 1-2=-509/64, 2-3=-425/61, 3-4=-989/120, 4-5=-1251/105, 5-7=-2116/95, 7-8=-2910/96,
8-9=-3764/108, 1-18=-1226/11, 9-10=-1339/64
BOT CHORD 13-15=0/1812, 12-13=-17/2603, 11-12=-71/3242, 10-11=-24/320
WEBS 15-17=0/774, 3-17=-778/98, 3-15=-55/599, 5-15=-1096/128, 5-13=0/470, 7-13=-857/91,
7-12=0/369, 8-12=-717/57, 8-11=0/553, 1-17=-27/1030, 9-11=-52/3037

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Bearing at joint(s) 10 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) 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.



October 14,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185943
H3-6	T10B	PIGGYBACK BASE	5	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

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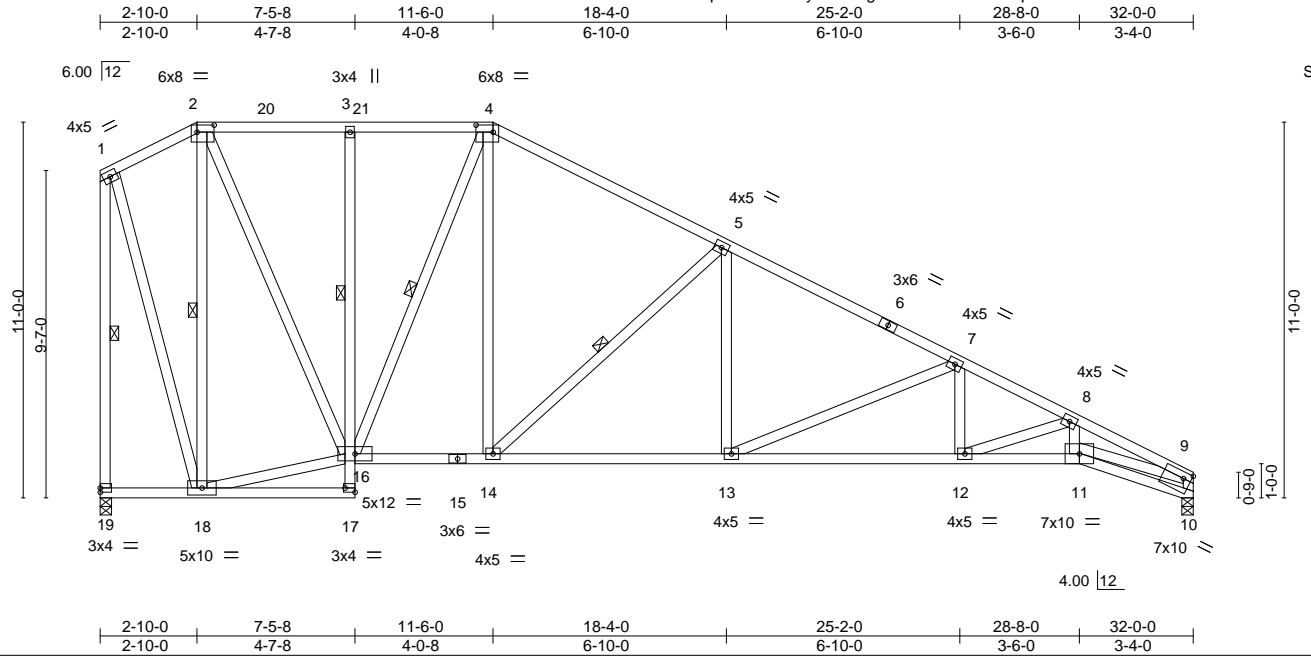


Plate Offsets (X,Y)-- [2:0-6-0,0-2-8], [4:0-6-0,0-2-8], [10:Edge,0-2-4], [17:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.88	Vert(LL)	-0.17 12-13	>999	360	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.89	Vert(CT)	-0.36 12-13	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.81	Horz(CT)	0.18 10	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-SH						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 258 lb	FT = 3%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP 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. Except:
1 Row at midpt 3-16
WEBS 1 Row at midpt 2-18, 4-16, 5-14, 1-19

REACTIONS.

(size) 19=0-4-0, 10=0-4-0
Max Horz 19=-322(LC 7)
Max Uplift 19=-19(LC 7), 10=-26(LC 12)
Max Grav 19=1268(LC 2), 10=1314(LC 33)

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

TOP CHORD 1-2=-386/97, 2-3=-734/78, 3-4=-735/78, 4-5=-1271/78, 5-7=-2117/63, 7-8=-2909/62,
8-9=-3765/66, 1-19=-1243/31, 9-10=-1339/50
BOT CHORD 18-19=-80/264, 3-16=-430/86, 14-16=0/1013, 13-14=0/1813, 12-13=0/2602,
11-12=-35/3242, 10-11=-21/320
WEBS 2-18=-1000/73, 16-18=-2/343, 2-16=-3/1045, 4-16=-756/51, 4-14=-8/852,
5-14=-1094/122, 5-13=0/477, 7-13=-855/90, 7-12=0/367, 8-12=-718/51, 8-11=0/555,
1-18=-55/1060, 9-11=-18/3037

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Bearing at joint(s) 10 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) 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.



October 14,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185944
H3-6	T11	Piggyback Base	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:09 2020 Page 1
ID: Fpza38BVdcFyJDKwxgHN8dztCCb-igAgibryR0mrzJr0LyzhOtcUw9?P7qb3pVgyveyTrL4

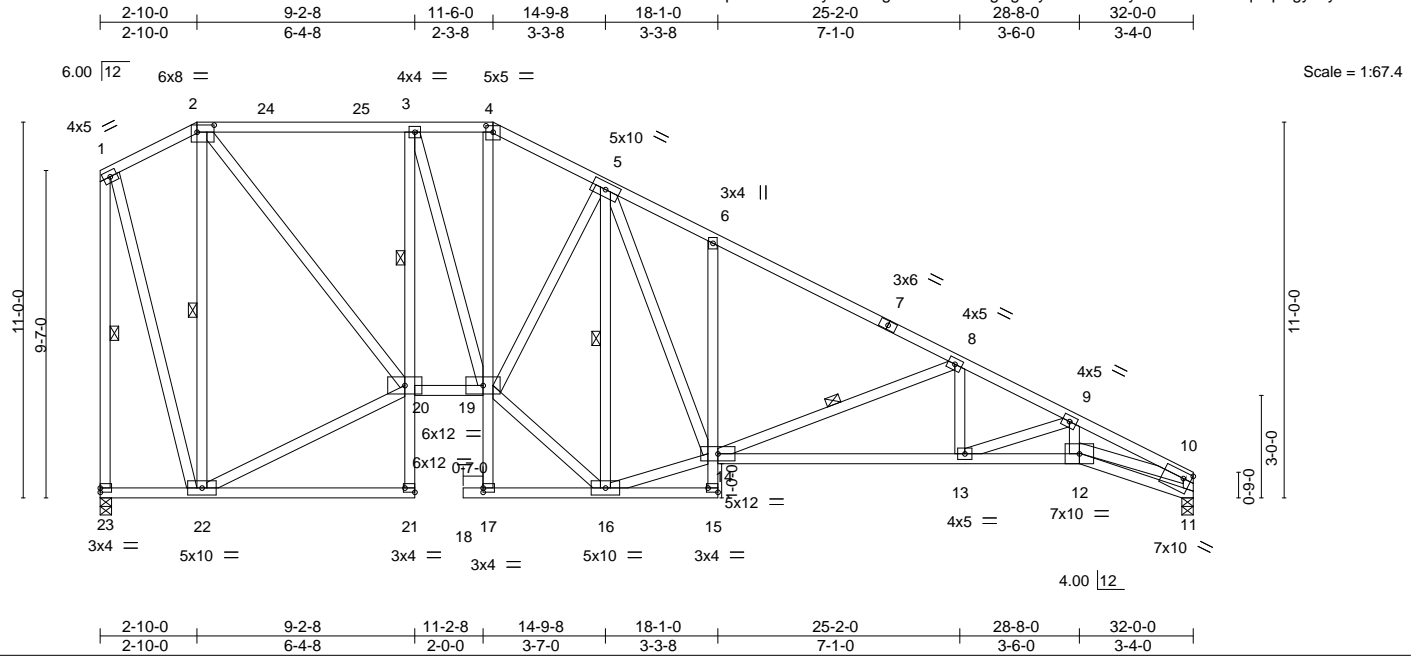


Plate Offsets (X,Y)-- [2:0-6-0,0-2-8], [4:0-2-8,0-2-4], [11:Edge,0-2-4], [15:Edge,0-1-8], [17:0-0-0,0-1-8], [21:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.78	Vert(LL)	-0.19	13-14	>999	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.90	Vert(CT)	-0.42	13-14	>900		
TCDL 10.0	Lumber DOL 1.15	WB 0.74	Horz(CT)	0.24	11	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-SH						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 294 lb	FT = 3%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-5-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
1 Row at midpt 3-20
10-0-0 oc bracing: 17-19
WEBS 1 Row at midpt 2-22, 5-16, 8-14, 1-23

REACTIONS.

(size) 23=0-4-0, 11=0-4-0
Max Horz 23=-322(LC 7)
Max Uplift 23=-13(LC 7), 11=-23(LC 12)
Max Grav 23=1278(LC 2), 11=1319(LC 33)

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

TOP CHORD 1-2=-391/93, 2-3=-1097/28, 3-4=-1253/41, 4-5=-1460/31, 5-6=-2021/134, 6-8=-2072/57,
8-9=-2950/53, 9-10=-3761/55, 1-23=-1263/18, 10-11=-1346/49
BOT CHORD 22-23=-80/264, 3-20=-711/101, 19-20=0/1096, 4-19=0/495, 6-14=-492/140,
13-14=0/2650, 12-13=-24/3238, 11-12=-22/329
WEBS 2-22=-1087/16, 20-22=0/402, 2-20=0/1255, 3-19=-50/585, 16-19=0/1596, 5-19=-27/300,
5-16=-1335/0, 14-16=0/1210, 5-14=-73/1398, 8-14=-961/96, 8-13=0/377, 9-13=-677/45,
9-12=0/545, 1-22=-48/1093, 10-12=-6/3022

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Bearing at joint(s) 11 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) 23, 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.



October 14,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185945
H3-6	T11GE	GABLE	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:12 2020 Page 1
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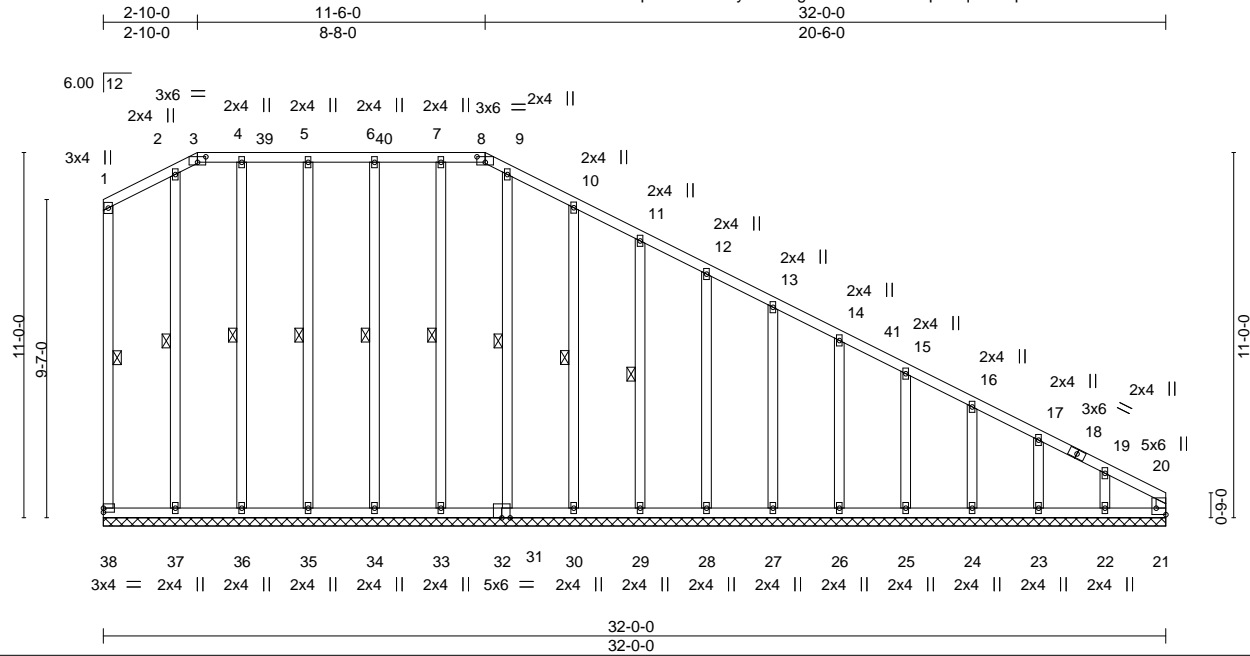


Plate Offsets (X,Y)-- [3:0-3-0,0-2-0], [8:0-3-0,0-2-0], [20:Edge,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.50	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.25	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.01	21	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-R						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 274 lb	FT = 3%

LUMBER-

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

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.
WEBS 1 Row at midpt 1-38, 2-37, 4-36, 5-35, 6-34, 7-33, 9-31, 10-30, 11-29

REACTIONS.

All bearings 32-0-0.
(lb) - Max Horz 38=-321(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 38, 21, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23 except 22=-121(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 38, 21, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 17-19=-254/79, 19-20=-300/89
BOT CHORD 37-38=-80/263, 36-37=-80/263, 35-36=-80/263, 34-35=-80/263, 33-34=-80/263, 31-33=-80/263, 30-31=-80/263, 29-30=-80/263, 28-29=-80/263, 27-28=-80/263, 26-27=-80/263, 25-26=-80/263, 24-25=-80/263, 23-24=-80/263, 22-23=-80/263, 21-22=-80/263

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 38, 21, 37, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23 except (jt=lb) 22=121.
- 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.



October 14,2020

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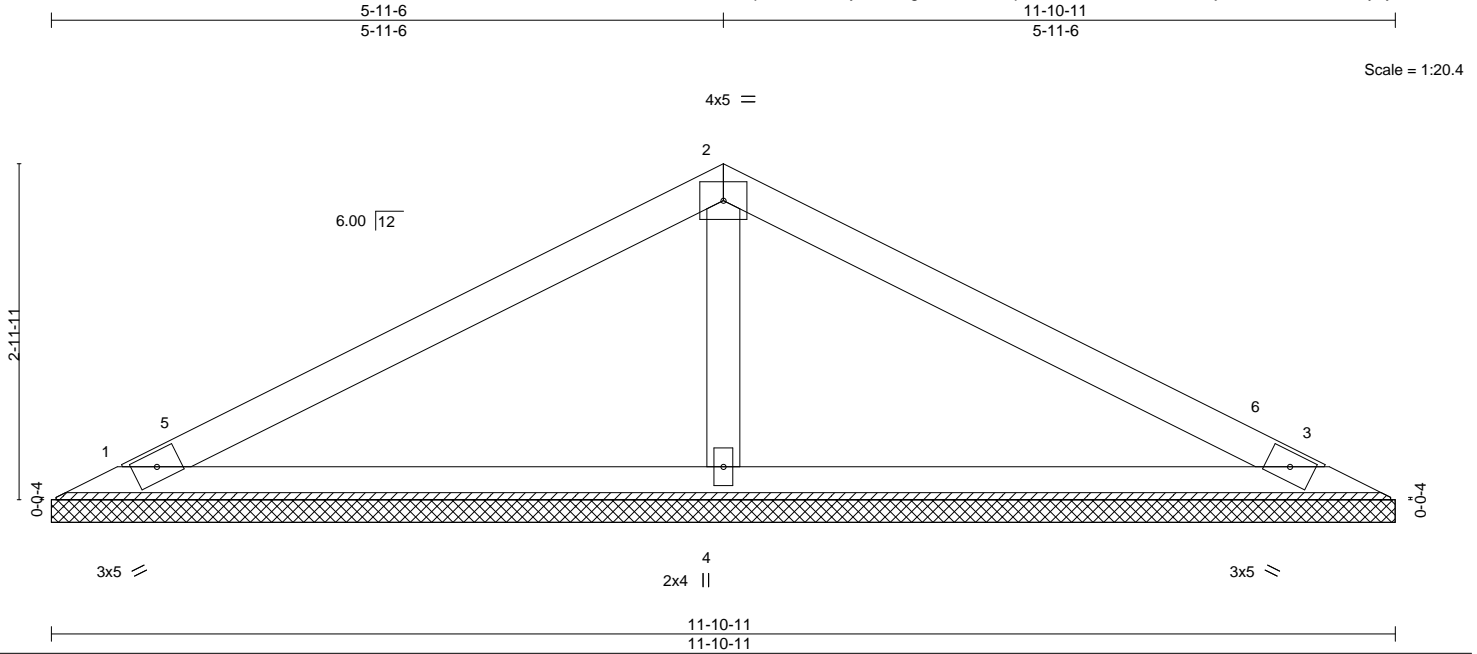


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185946
H3-6	V1	GABLE	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:39 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-pR_0?rCmNEybZw7n5FWjcCsdFSPS9ZuUi9xYyuyTrKc



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	n/a	MT20	244/190		
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a				
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00				
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. (size) 1=11-10-11, 3=11-10-11, 4=11-10-11
Max Horz 1=30(LC 8)
Max Uplift 1=-22(LC 11), 3=-27(LC 12)
Max Grav 1=247(LC 15), 3=247(LC 16), 4=422(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-289/47

- 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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) Plates checked for a plus or minus 3 degree rotation about its center.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 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.



October 14, 2020

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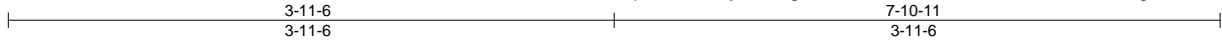


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185947
H3-6	V2	Valley	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:45 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dzCCb-ebMHGuGXz4IHrbxSWd7sT6n1gUIZHkN45OsAYyTrkW



Scale = 1:15.0

0-0-8 0-0-8		7-10-11 7-10-3							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	MT20	GRIP
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a		244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-P					
BCDL	10.0							Weight: 25 lb	FT = 3%

LUMBER-

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

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=7-9-11, 3=7-9-11, 4=7-9-11
Max Horz 1=19(LC 8)
Max Uplift 1=-14(LC 11), 3=-17(LC 12)
Max Grav 1=156(LC 15), 3=156(LC 16), 4=263(LC 2)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- 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.



October 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185948
H3-6	V3	Valley	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:46 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-6owfTEH9kOQcv_A7?D8MOhe_D3rElkKWJl8Pi_yTrKV

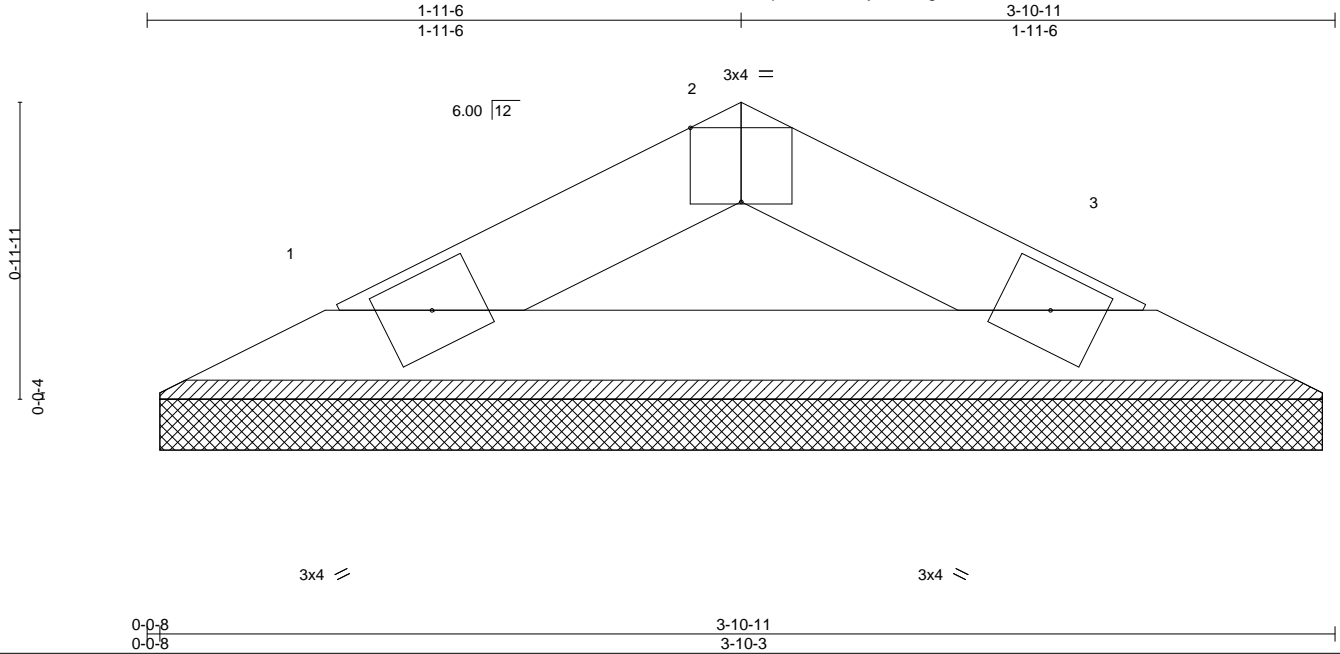


Plate Offsets (X,Y)-- [2:0-2:0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	MT20	GRIP
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a		244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-P				Weight: 10 lb	FT = 3%
BCDL	10.0								

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-9-11, 3=3-9-11
Max Horz 1=8(LC 7)
Max Uplift 1=-1(LC 11), 3=-1(LC 12)
Max Grav 1=105(LC 2), 3=105(LC 2)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- 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.



October 14, 2020

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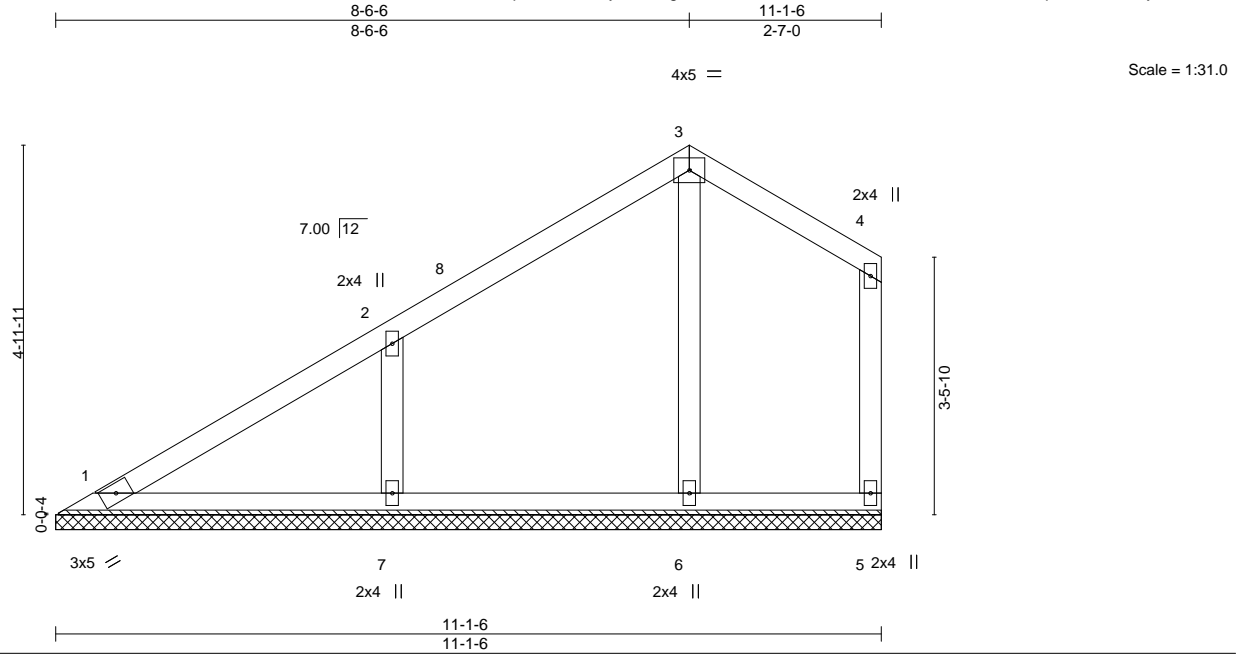


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185949
H3-6	V4	GABLE	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:46 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-6owTEH9kOQcv_A7?D8MOhewa3qhlkMWJl8Pi_yTrKV



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 49 lb	FT = 3%

LUMBER-

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

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 11-1-6.
(lb) - Max Horz 1=134(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 5, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=406(LC 22)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-313/130

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



October 14, 2020

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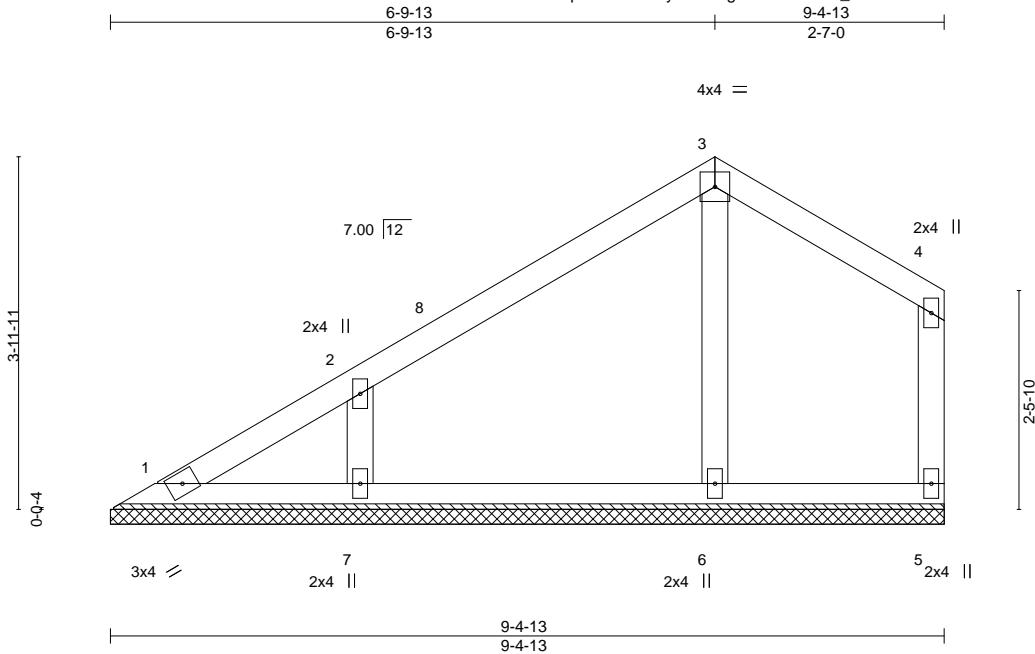


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185950
H3-6	V5	GABLE	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:47 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dtCCb-a_T1hainVhYSX8IKZwfcxuB6gTAQ1AxYPtzERyTrKU



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.24	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
TCDL 10.0	Rep Stress Incr YES	WB 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0				Weight: 39 lb	FT = 3%

LUMBER-

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

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 9-4-13.
(lb) - Max Horz 1=102(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=335(LC 22)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-262/109

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



October 14, 2020

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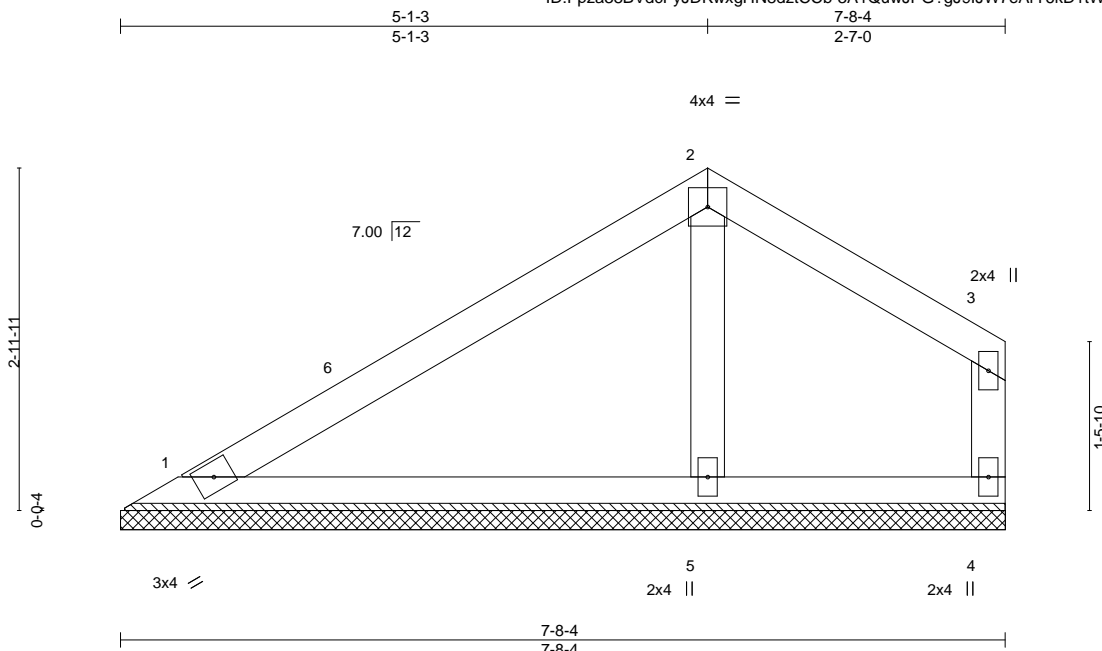


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185951
H3-6	V6	GABLE	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:48 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-3A1QuwJPG?gJ9IJW7eArT6kD1tWqmdKpn3dWmtyTrKT



Scale = 1:20.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.12	Vert(CT) n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00	4	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P					Weight: 29 lb	FT = 3%
BCDL 10.0								

LUMBER-

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

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=7-8-4, 4=7-8-4, 5=7-8-4
Max Horz 1=70(LC 8)
Max Uplift 1=14(LC 11), 4=24(LC 12)
Max Grav 1=174(LC 15), 4=107(LC 16), 5=305(LC 2)

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; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- 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.



October 14, 2020

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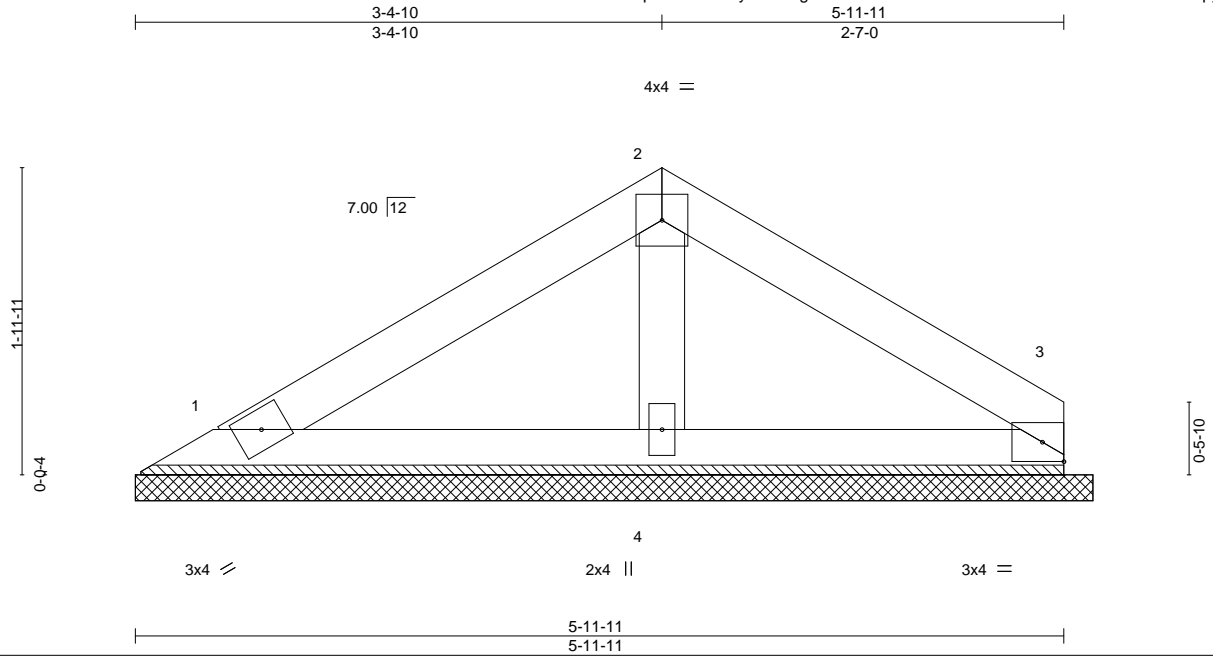


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	V7	GABLE	1	1	I43185952

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:49 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-XNbo6GK21JoAmSuihLh40JGT9Hs3V4py?JM3JJyTrKS



Scale = 1:14.8

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P							
BCDL 10.0								Weight: 20 lb	FT = 3%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=6-1-15, 3=6-1-15, 4=6-1-15
Max Horz 1=-35(LC 7)
Max Uplift 1=-12(LC 11), 3=-15(LC 12)
Max Grav 1=136(LC 15), 3=125(LC 16), 4=207(LC 2)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 3 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- 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.



October 14, 2020

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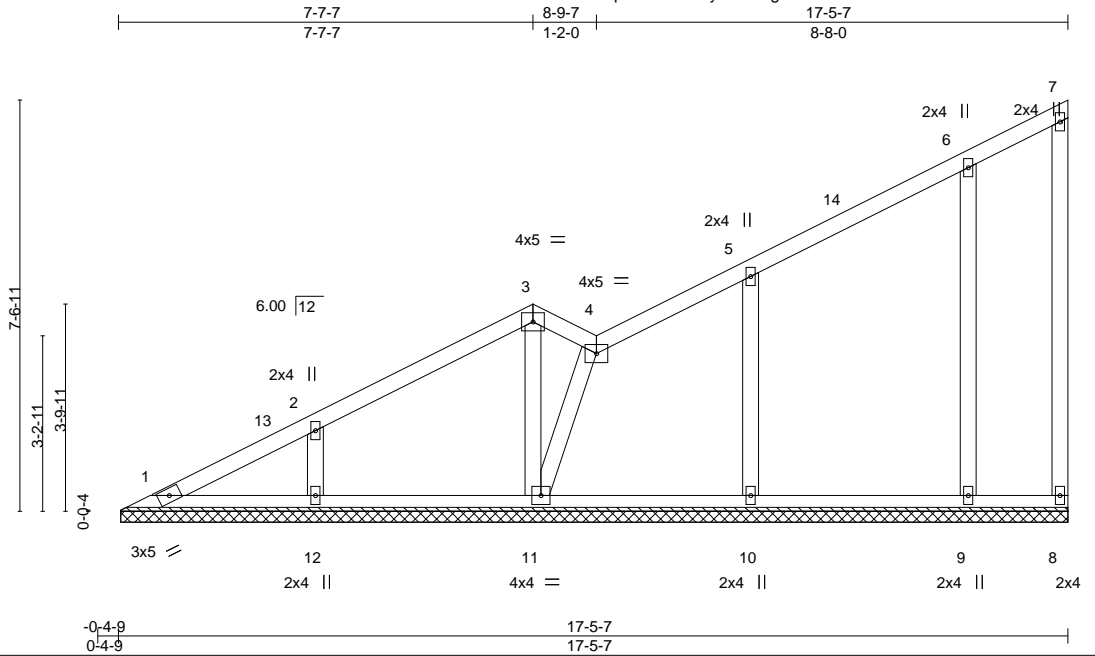


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185953
H3-6	V8	GABLE	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:49 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-XNbo6GK21JoAmSuihLh40JGPAHrgV2sy?JM3JJyTrKS



Scale = 1:42.4

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	8	n/a	n/a	
BCLL	0.0	Code IRC2018/TPI2014		Matrix-P							
BCDL	10.0									Weight: 91 lb	FT = 3%

LUMBER-

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

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 17-10-0.

(lb) - Max Horz 1=236(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 8, 12, 11, 10, 9

Max Grav All reactions 250 lb or less at joint(s) 1, 8 except 12=398(LC 33), 11=319(LC 2), 10=378(LC 35), 9=270(LC 2)

FORCES.

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

WEBS 2-12=-320/105, 5-10=-296/93

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 12, 11, 10, 9.
- 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.



October 14, 2020

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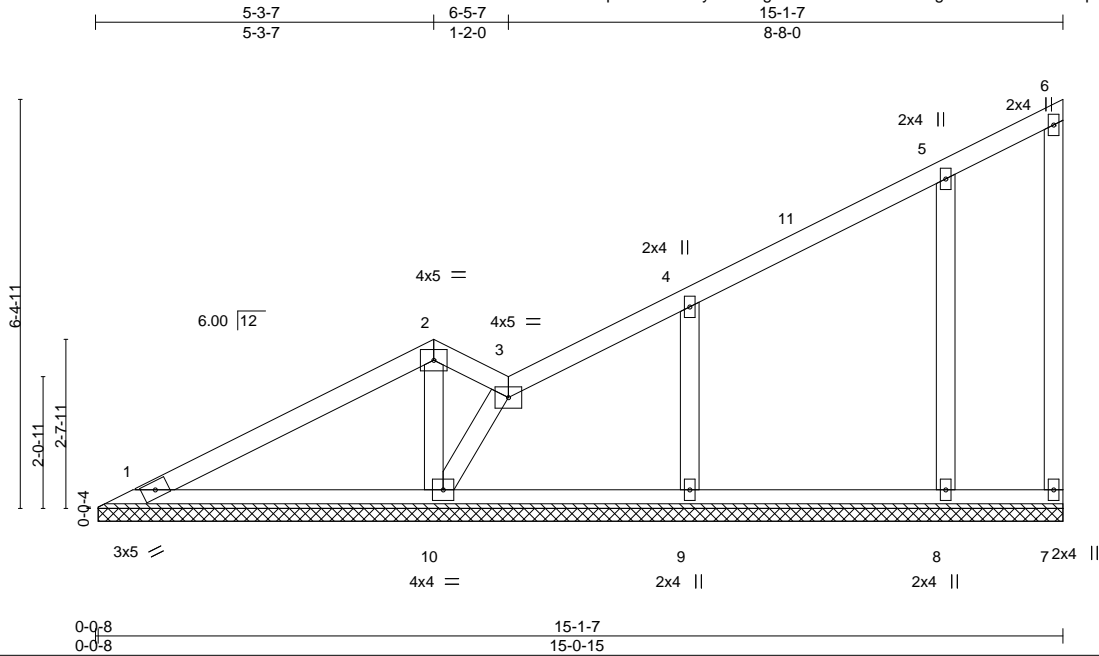


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185954
H3-6	V9	GABLE	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:50 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dzCCb-?Z9AJcKncw1OcTvE3DJZxPYphBDEW6EN6drlyTrKR



Scale = 1:36.0

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.00	7	n/a	n/a	
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0									Weight: 73 lb	FT = 3%

LUMBER-

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

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: 1-10.

REACTIONS.

All bearings 15-0-15.
(lb) - Max Horz 1=198(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 7, 10, 9, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=391(LC 2), 9=372(LC 35), 8=272(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-296/93

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Plates checked for a plus or minus 3 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10, 9, 8.
- 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.



October 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185956
H3-6	V11	GABLE	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

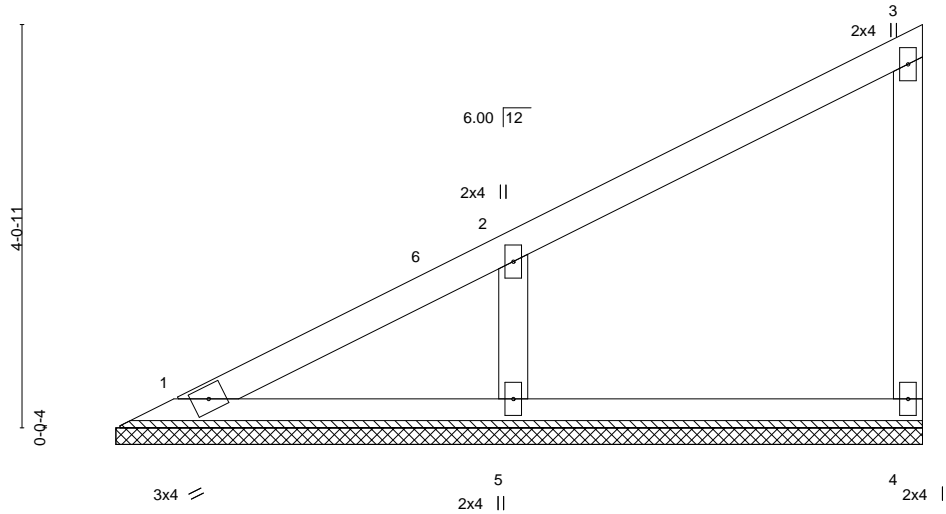
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8-1-7

8-1-7

Scale = 1:23.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr YES	WB 0.04	Horz(CT)	-0.00	4	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P						Weight: 32 lb	FT = 3%
BCDL 10.0									

LUMBER-

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

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=8-1-7, 4=8-1-7, 5=8-1-7
Max Horz 1=121(LC 8)
Max Uplift 4=14(LC 8), 5=53(LC 11)
Max Grav 1=102(LC 23), 4=159(LC 15), 5=420(LC 15)

FORCES.

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

WEBS 2-5=-327/108

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 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.



October 14, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES
H3-6	V12	Valley	1	1	
					Job Reference (optional)

I43185957

Mid America Truss, Jefferson City, MO - 65101,

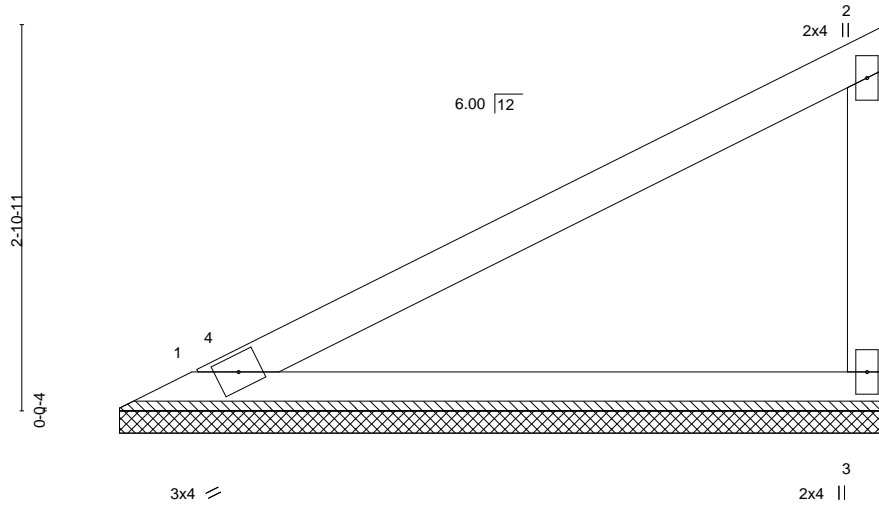
8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:41 2020 Page 1

ID:Fpza38BVdcFyJDKwxgHN8dzCCb-mq6mQXD0vroJpDHADgYBhdX_i25ddT5nATQe1nyTrKa

5-9-7

5-9-7

Scale = 1:17.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL) n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.22	Vert(CT) n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P					Weight: 21 lb	FT = 3%
BCDL 10.0								

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-8-15, 3=5-8-15
 Max Horz 1=83(LC 8)
 Max Uplift 1=-3(LC 11), 3=-19(LC 11)
 Max Grav 1=239(LC 15), 3=249(LC 15)

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=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 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.



October 14, 2020

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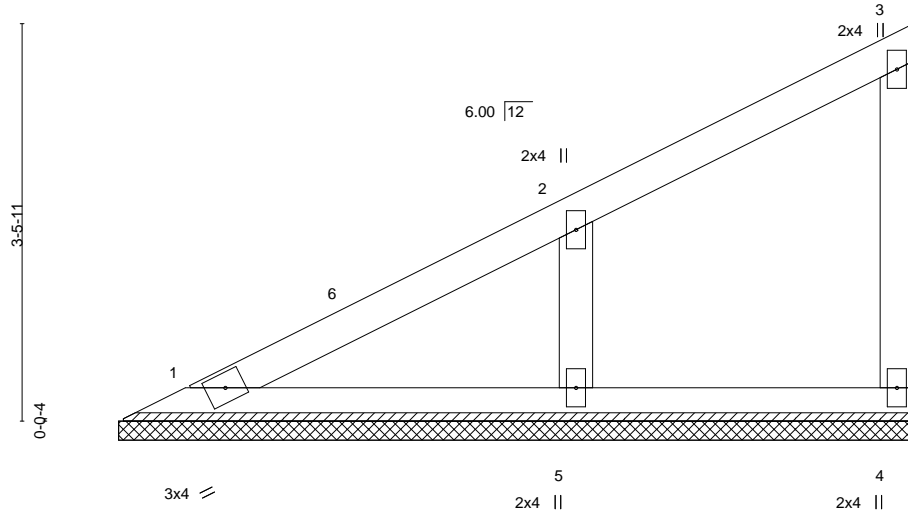
Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185958
H3-6	V13	GABLE	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:42 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-E0g8etEfg9wAQNsMmN3QERUGcSTCMwnwO7ACZDyTrKZ

6-11-7
6-11-7

Scale = 1:20.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	-0.00	4	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IRC2018/TPI2014							Weight: 27 lb	FT = 3%

LUMBER-

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

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=6-11-7, 4=6-11-7, 5=6-11-7
Max Horz 1=102(LC 8)
Max Uplift 4=-11(LC 8), 5=-45(LC 11)
Max Grav 1=106(LC 23), 4=100(LC 15), 5=372(LC 15)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-294/91

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 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.



October 14, 2020

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Chesterfield, MO 63017

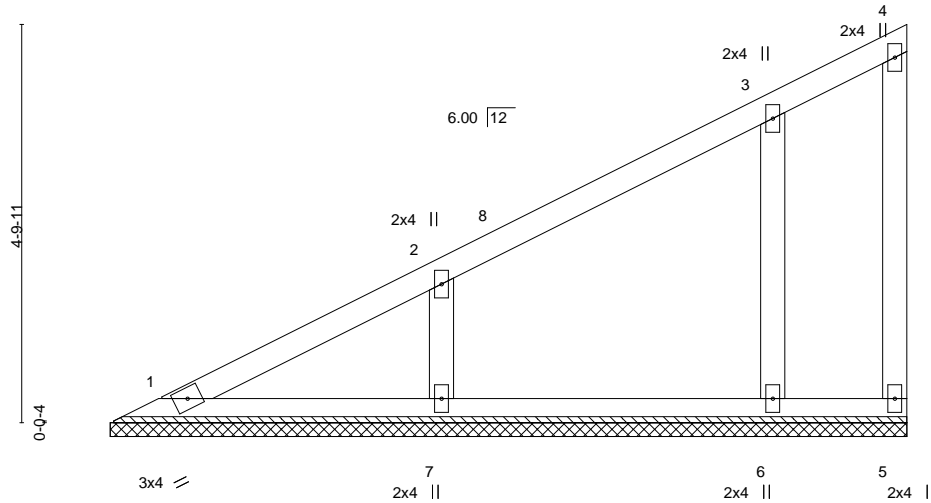
Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	
H3-6	V14	GABLE	1	1		I43185959
Job Reference (optional)						

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:42 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-E0g8etEfg9wAQNsMmN3QErUGXST_MvJwO7ACZDyTrKZ

9-7-7
9-7-7

Scale = 1:27.8



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.07	Horz(CT)	-0.00	5	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 43 lb	FT = 3%

LUMBER-

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

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 9-7-7.

(lb) - Max Horz 1=146(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 5, 7, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=340(LC 2), 6=335(LC 15)

FORCES.

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

WEBS 2-7=-255/100, 3-6=-269/76

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7, 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.



October 14, 2020

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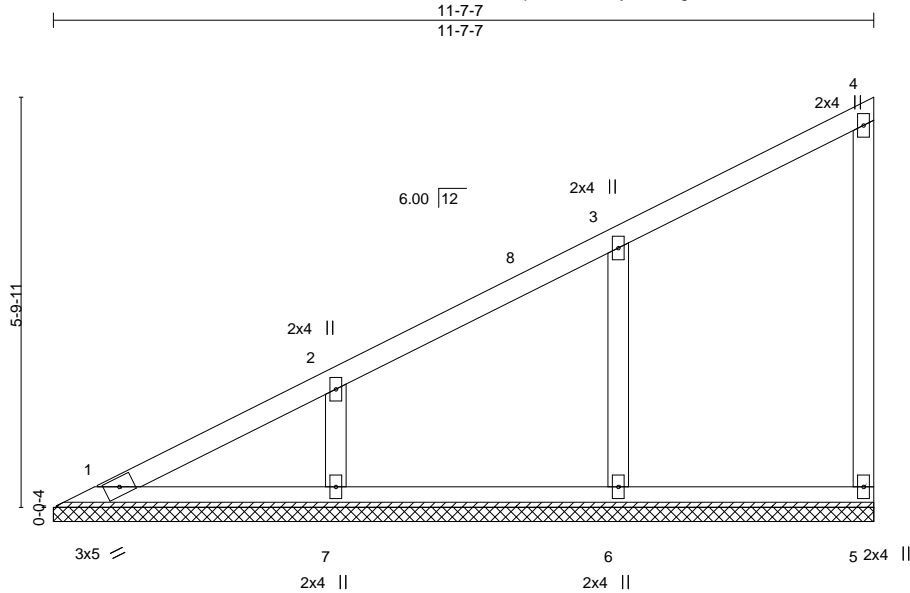


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	
H3-6	V15	GABLE	1	1		I43185960
Job Reference (optional)						

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:43 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dzCCb-iDEXrDFHRT212XRYK5afm20RosoG5MP4dnv5fyTrKY



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.23	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Horz(CT)	-0.00	5	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 51 lb	FT = 3%

LUMBER-

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

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 11-7-7.
(lb) - Max Horz 1=178(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 5, 7, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=326(LC 2), 6=389(LC 15)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-306/97

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7, 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.



October 14, 2020

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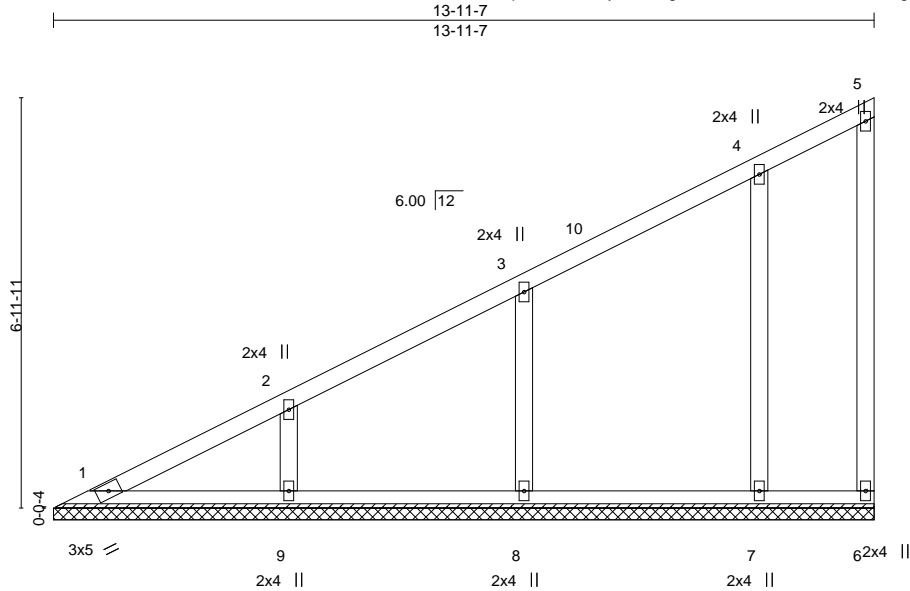
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185961
H3-6	V16	GABLE	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:44 2020 Page 1

ID:Fpza38BVdcFyJDKwxgHN8dztCCb-APov3ZGvCmAugh0luo6uJGZacG8WqoTDsRfid6yTrKX



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.08	Vert(CT) n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr YES	WB 0.15	Horz(CT) -0.00	6	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-P						
BCDL 10.0							Weight: 68 lb	FT = 3%

LUMBER-

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

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 13-11-7.

(lb) - Max Horz 1=217(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 6, 9, 8, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 9=326(LC 2), 8=330(LC 2), 7=337(LC 15)

FORCES.

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

WEBS 4-7=-269/78

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9, 8, 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.



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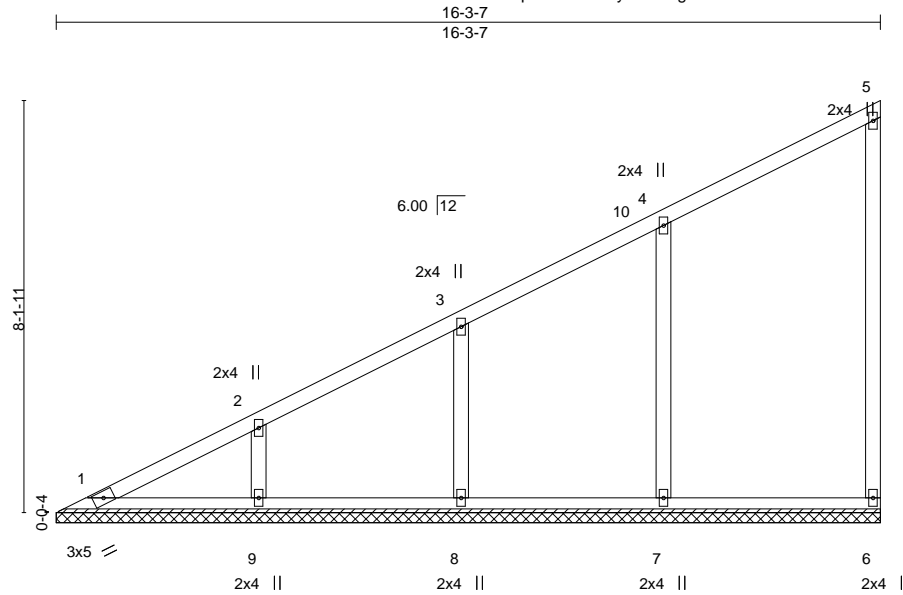


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT HOMES	I43185962
H3-6	V17	GABLE	1	1	Job Reference (optional)	

Mid America Truss, Jefferson City, MO - 65101,

8.420 s Aug 25 2020 MiTek Industries, Inc. Tue Oct 13 11:20:44 2020 Page 1
ID:Fpza38BVdcFyJDKwxgHN8dztCCb-APov3ZGvCmAugh0luo6uJGZX6G8BqoyDsRfid6yTrKX



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.19	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 77 lb	FT = 3%

LUMBER-

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

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 16-3-7.

(lb) - Max Horz 1=255(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 6, 9, 8, 7

Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 9=332(LC 2), 8=305(LC 2), 7=421(LC 15)

FORCES.

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

WEBS 4-7=-328/109

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Plates checked for a plus or minus 3 degree rotation about its center.
- 5) Gable requires continuous bottom chord bearing.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9, 8, 7.
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October 14, 2020

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

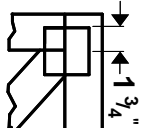
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



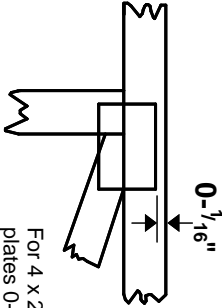
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

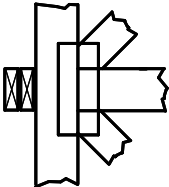
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



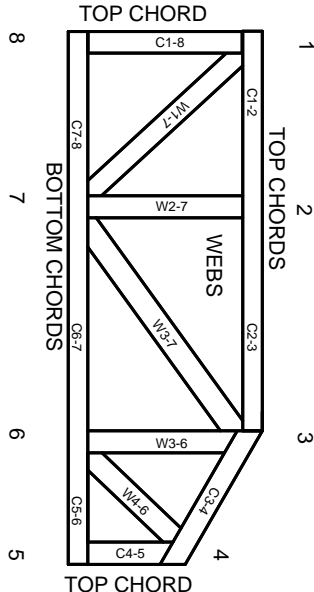
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: 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 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.