MiTek USA, Inc.
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Telephone 916-755-3571

Re: 2013
KB Home 2013

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

Pages or sheets covered by this seal: R73704643 thru R73704738

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

Arizona COA: 11906-0

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

November 30,2022

Reinmuth, Dustin

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.

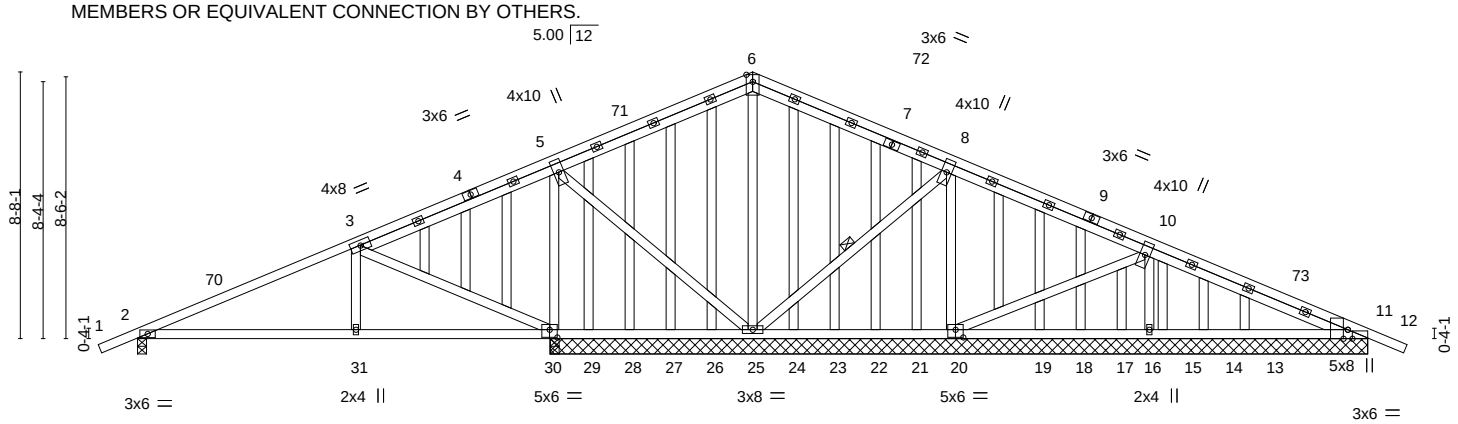
Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A1E	GABLE	1	1	R73704643
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:49 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-DQjgAHIukkVrV9T_kEzxHU5b?28qR76Gf8DuhJyE46S

1-2-0	7-1-3	13-6-10	20-0-0	26-5-6	32-10-13	40-0-0	41-2-0
1-2-0	7-1-3	6-5-6	6-5-6	6-5-6	6-5-6	7-1-3	1-2-0

Scale = 1:74.9

MT20 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.



7-1-3	13-5-0	13-6-10	20-0-0	26-5-6	32-10-13	40-0-0
7-1-3	6-3-13	0-1-10	6-5-6	6-5-6	6-5-6	7-1-3

Plate Offsets (X,Y)-- [11:0-1-13,Edge], [11:0-3-8,Edge], [20:0-3-0,0-3-0], [30:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.05	31-66	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.14	31-66	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.02	30	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.05	31-66	>999	240	Weight: 288 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std
OTHERS	2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 8-25

REACTIONS. All bearings 26-7-0 except (jt=length) 2=0-3-8.
(lb) - Max Horz 2=-158(LC 31)
Max Uplift All uplift 100 lb or less at joint(s) 29, 15, 14, 13 except 2=-492(LC 35), 25=-170(LC 35), 20=-259(LC 36), 16=-550(LC 36), 30=-589(LC 35), 11=-390(LC 36)
Max Grav All reactions 250 lb or less at joint(s) 26, 27, 28, 24, 23, 22, 21, 19, 18, 17, 15, 14, 13 except 2=736(LC 32), 25=626(LC 1), 20=432(LC 33), 16=700(LC 33), 30=1259(LC 32), 30=1005(LC 1), 11=491(LC 33), 11=286(LC 1)

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

TOP CHORD	2-3=-1393/1054, 3-5=-432/706, 5-6=-368/525, 6-8=-624/781, 8-10=-860/915, 10-11=-756/761
BOT CHORD	2-31=-926/1289, 30-31=-449/840, 29-30=-359/210, 28-29=-459/310, 27-28=-559/410, 26-27=-659/510, 25-26=-759/610, 24-25=-270/270, 21-22=-301/302, 20-21=-396/396, 17-18=-254/255, 16-17=-315/316, 15-16=-354/355, 14-15=-454/445, 13-14=-554/555, 11-13=-748/749
WEBS	6-25=-562/175, 8-25=-563/498, 8-20=-610/485, 10-20=-595/592, 10-16=-770/565, 5-25=-451/586, 5-30=-906/618, 3-30=-837/142, 3-31=0/301

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 14, 13 except (jt=lb) 16=550, 11=390, 11=390.
9) n/a

EXPIRES: 12/31/2024
November 30,2022

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 40-0-0 for 75.0 plf.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

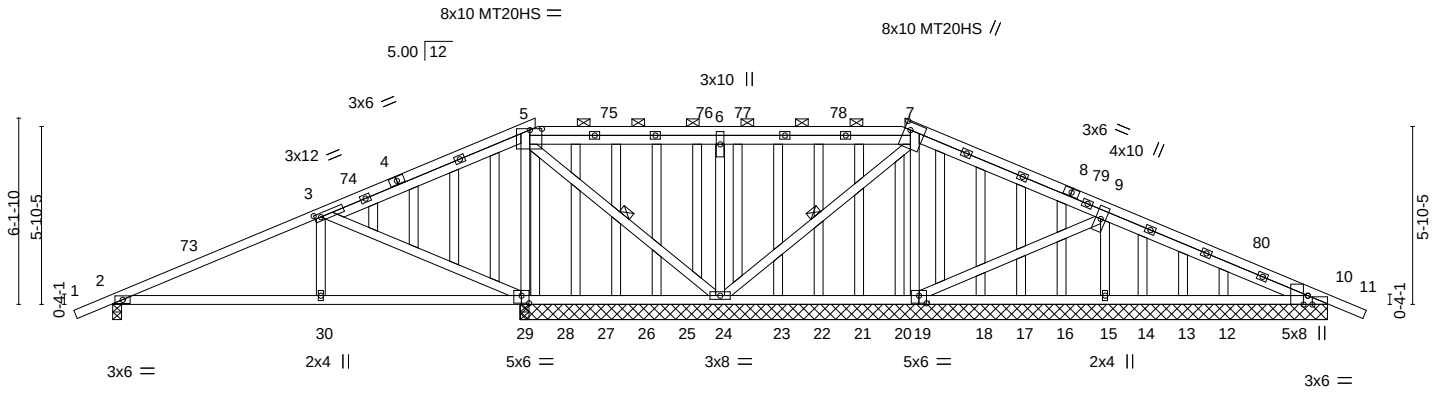
Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A1EB	GABLE	1	1	R73704644
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:57 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-_yChs0OvrCWiSN4WCv6qbARzZGu4JkSRVN9JzryE46K

1-2-0 | 13-8-13 | 14-0-0 | 20-0-0 | 26-0-0 | 26-3-3 | 32-8-2 | 40-0-0 | 41-2-0
1-2-0 | 13-8-13 | 0-3-3 | 6-0-0 | 6-0-0 | 0-3-3 | 6-4-15 | 7-3-14 | 1-2-0

MT20 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.

Scale = 1:75.9



6-10-4 | 13-5-0 | 14-0-0 | 20-0-0 | 26-0-0 | 26-3-3 | 32-8-2 | 40-0-0
6-10-4 | 6-6-12 | 13-8-13 | 6-0-0 | 6-0-0 | 0-3-3 | 6-4-15 | 7-3-14
0-3-3

Plate Offsets (X,Y)-- [3:0-2-8,0-1-8], [5:0-4-12,0-0-8], [7:0-3-0,0-2-4], [10:0-3-8,Edge], [10:0-1-13,Edge], [19:0-3-0,0-3-0], [29:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.04	30-69	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.12	30-69	>999	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.02	29	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.04	30-69	>999	240	Weight: 284 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-24, 7-24

REACTIONS. All bearings 26-7-0 except (jt=length) 2=0-3-8.
(lb) - Max Horz 2=111(LC 34)
Max Uplift All uplift 100 lb or less at joint(s) 19, 13, 12 except 2=-495(LC 35), 24=-183(LC 36), 15=-533(LC 36), 10=-382(LC 36), 29=-366(LC 35), 28=-307(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 27, 26, 25, 23, 22, 21, 20, 18, 17, 16, 14, 13, 12 except 2=738(LC 32), 24=637(LC 48), 15=715(LC 33), 10=469(LC 33), 29=1242(LC 32), 29=1137(LC 1), 19=364(LC 1), 10=262(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1346/1033, 3-5=-466/752, 5-6=-273/567, 6-7=-561/855, 7-9=-779/858, 9-10=-742/747
BOT CHORD 2-30=-895/1218, 29-30=-430/799, 28-29=-348/184, 27-28=-448/284, 26-27=-548/384, 25-26=-648/484, 24-25=-805/641, 23-24=-346/318, 20-21=-346/318, 19-20=-394/365, 15-16=-300/298, 14-15=-393/391, 13-14=-493/491, 12-13=-593/591, 10-12=-744/742
WEBS 5-24=-483/533, 6-24=-457/160, 7-24=-691/560, 9-15=-735/552, 3-29=-877/202, 3-30=0/293, 5-29=-790/471, 7-19=-405/264, 9-19=-612/576

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 13-8-9, Exterior(2R) 13-8-9 to 19-4-7, Interior(1) 19-4-7 to 26-3-7, Exterior(2R) 26-3-7 to 31-11-5, Interior(1) 31-11-5 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 3x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 12 except (jt=lb) 15=533, 10=382, 10=382.

Continued on page 2

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
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Roseville, CA 95661

NOTES-

11) n/a

12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 40-0-0 for 75.0 plf.
14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A1EBP	GABLE	1	1	R73704645
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:03 2022 Page 1
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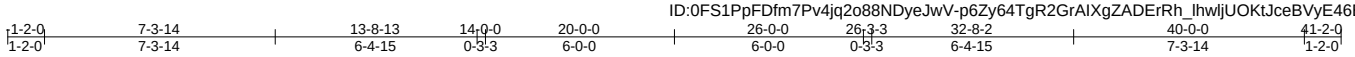
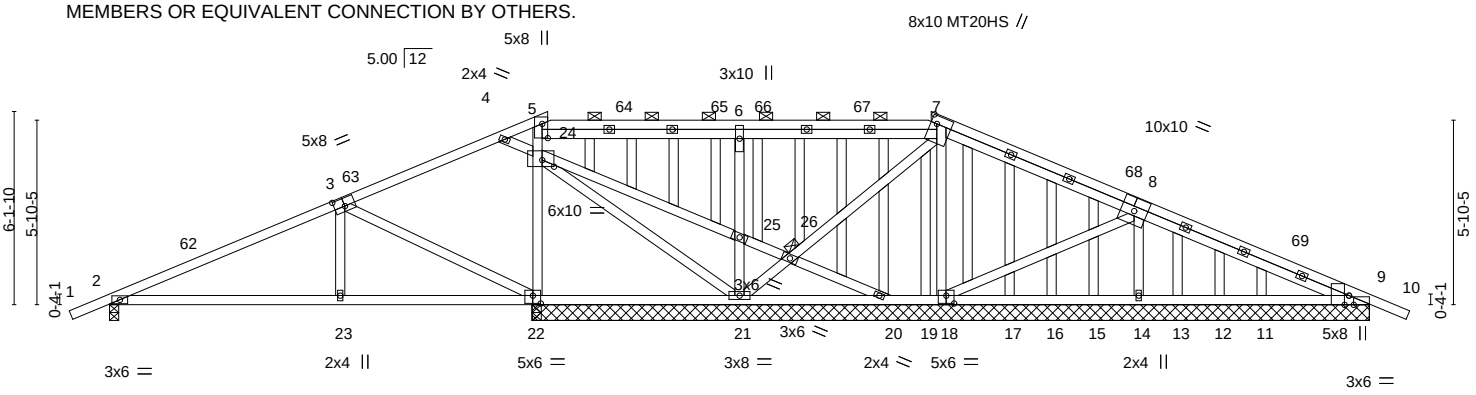


MT20 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.

Scale = 1:73.2



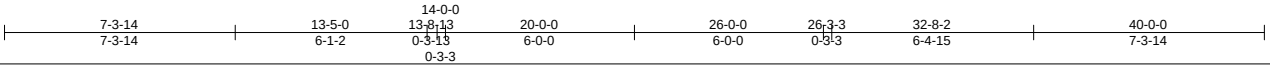


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-5-6,0-2-2], [7:0-3-0,0-2-4], [9:0-3-8,Edge], [9:0-1-13,Edge], [18:0-3-0,0-3-0], [22:0-3-0,0-3-0], [24:0-4-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.06	23-58	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.17	23-58	>951	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.02	22	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.06	23-58	>999	240	Weight: 255 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std
OTHERS	2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied.
JOINTS	1 Brace at Jt(s): 26

REACTIONS. All bearings 26-7-0 except (jt=length) 2=0-3-8.
(lb) - Max Horz 2=112(LC 34)
Max Uplift All uplift 100 lb or less at joint(s) 18, 19, 12, 11 except 2=-528(LC 35), 21=-439(LC 35), 14=-581(LC 36), 9=-396(LC 36), 22=-130(LC 35)
Max Grav All reactions 250 lb or less at joint(s) 20, 17, 16, 15, 13, 12, 11 except 2=790(LC 32), 21=812(LC 1), 14=771(LC 33), 9=486(LC 33), 22=909(LC 1), 22=909(LC 1), 18=379(LC 1), 9=257(LC 1)

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

TOP CHORD	2-3=-1432/1125, 3-4=-435/658, 4-5=-165/477, 5-6=-339/618, 6-7=-807/1094, 7-8=-895/1003, 8-9=-796/810
BOT CHORD	2-23=-977/1297, 22-23=-479/842, 21-22=-723/598, 20-21=-393/362, 19-20=-487/465, 18-19=-536/514, 15-16=-253/253, 14-15=-360/360, 13-14=-453/453, 12-13=-551/553, 11-12=-653/653, 9-11=-804/804
WEBS	3-23=0/295, 21-25=-470/199, 6-25=-470/202, 21-26=-856/729, 7-26=-839/714, 8-14=-780/600, 22-24=-425/149, 5-24=-450/123, 7-18=-438/298, 3-22=-799/140, 8-18=-701/668, 4-24=-235/252

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 13-7-1, Exterior(2R) 13-7-1 to 19-2-15, Interior(1) 19-2-15 to 26-3-7, Exterior(2R) 26-3-7 to 31-11-5, Interior(1) 31-11-5 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 3x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 11 except (jt=lb) 14=581, 9=396, 9=396.

Continued on page 2

EXPIRES: 12/31/2024
November 30,2022

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NOTES-

11) n/a

12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 40-0-0 for 75.0 plf.
14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

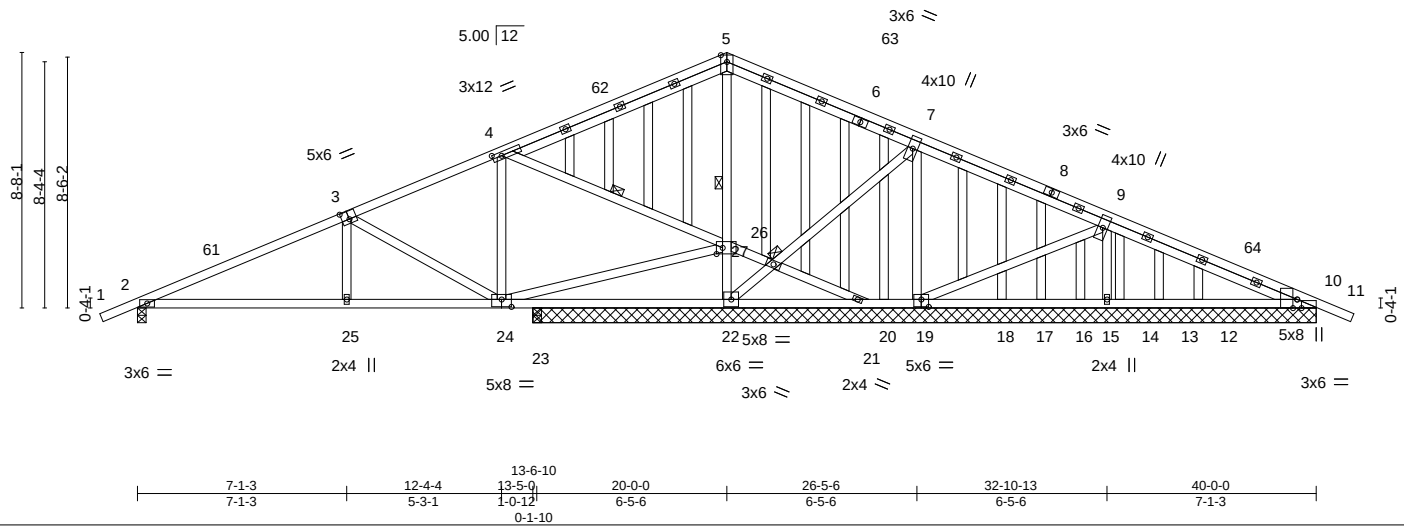
Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A1EP	GABLE	1	1	R73704646
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:08 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-94Nr9nXoFau8G3QeLjoPYUOsAidfOlT31bKPsjyE469

1-2-0 7-1-3 12-4-4 13-6-10 20-0-0 26-5-6 32-10-13 40-0-0 41-2-0
1-2-0 7-1-3 5-3-1 1-2-6 6-5-6 6-5-6 6-5-6 7-1-3 1-2-0

MT20 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.

Scale = 1:78.2



7-1-3 12-4-4 13-5-0 20-0-0 26-5-6 32-10-13 40-0-0
7-1-3 5-3-1 1-0-12 6-5-6 6-5-6 6-5-6 7-1-3
0-1-10

Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [4:0-3-12,0-1-8], [10:0-1-13,Edge], [10:0-3-8,Edge], [19:0-3-0,0-3-0], [24:0-4-0,0-3-0], [26:0-2-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.05	25-57	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.15	25-57	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.02	23	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.07	24-25	>999	240	Weight: 267 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std
OTHERS	2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-22, 4-26
JOINTS	1 Brace at Jt(s): 27

REACTIONS. All bearings 26-7-0 except (jt=length) 2=0-3-8, 23=0-3-8.
(lb) - Max Horz 2=158(LC 33)
Max Uplift All uplift 100 lb or less at joint(s) 21, 14, 13, 12, 23 except 2=-592(LC 35), 22=-725(LC 35), 19=-323(LC 36), 15=-573(LC 36), 20=-116(LC 3), 10=-397(LC 36)
Max Grav All reactions 250 lb or less at joint(s) 18, 17, 16, 14, 13, 12 except 2=921(LC 32), 22=1531(LC 32), 19=480(LC 33), 15=701(LC 33), 21=279(LC 3), 10=491(LC 33), 23=345(LC 3), 10=257(LC 1)

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

TOP CHORD	2-3=-1842/1278, 3-4=-830/743, 4-5=-262/753, 5-7=-811/1161, 7-9=-918/1102, 9-10=-802/837
BOT CHORD	2-25=-1122/1668, 24-25=-638/1231, 23-24=-395/248, 22-23=-667/529, 21-22=-460/425, 20-21=-546/437, 19-20=-641/532, 18-19=-254/210, 17-18=-256/211, 16-17=-356/311, 15-16=-416/372, 14-15=-456/411, 13-14=-556/501, 12-13=-656/611, 10-12=-850/786
WEBS	22-26=-1146/464, 5-26=-868/388, 22-27=-746/610, 7-27=-744/609, 7-19=-632/564, 9-19=-746/674, 9-15=-739/587, 3-25=0/310, 4-26=-675/303, 26-27=-329/249, 21-27=-327/246, 24-26=-114/458, 3-24=-745/114

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 13, 12 except (jt=lb) 15=573, 10=397, 10=397.
9) n/a
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.

Continued on page 2

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

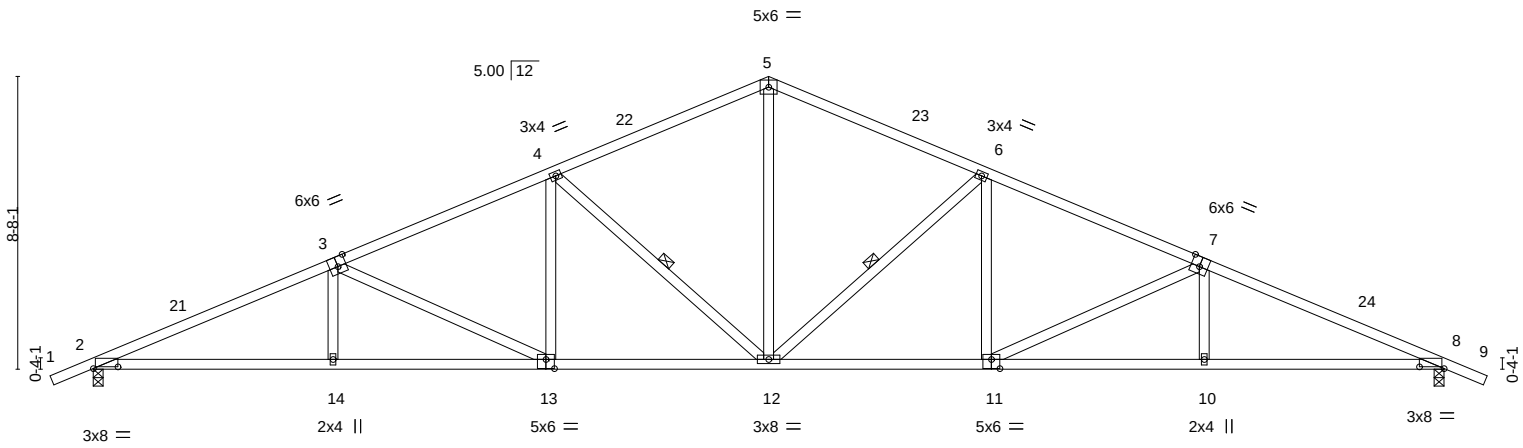
11) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 40-0-0 for 75.0 plf.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A2	COMMON	7	1	R73704647
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:11 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-af2_opZhYVHj8X9D1rM6A70KZwZ2b5UVjZY3T1yE466

1-2-0	7-1-3	13-6-10	20-0-0	26-5-6	32-10-13	40-0-0	41-2-0
1-2-0	7-1-3	6-5-6	6-5-6	6-5-6	6-5-6	7-1-3	1-2-0

Scale = 1:68.2



7-1-3	13-6-10	20-0-0	26-5-6	32-10-13	40-0-0
7-1-3	6-5-6	6-5-6	6-5-6	6-5-6	7-1-3

Plate Offsets (X,Y)-- [2:0-8-12,0-0-10], [3:0-3-0,Edge], [7:0-3-0,Edge], [8:0-8-12,0-0-10], [11:0-3-0,0-3-4], [13:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.18	12	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.53	11-12	>909	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.19	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.22	10-11	>999	240	Weight: 162 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 6-12, 4-12

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=161(LC 11)
Max Uplift 2=-834(LC 35), 8=-834(LC 36)
Max Grav 2=1843(LC 1), 8=1843(LC 1)

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

TOP CHORD	2-3=-4698/1950, 3-4=-3606/1421, 4-5=-2501/875, 5-6=-2501/889, 6-7=-3607/1425, 7-8=-4703/1958
BOT CHORD	2-14=-1741/4232, 13-14=-1260/3792, 12-13=-705/2815, 11-12=-686/2815, 10-11=-1246/3797, 8-10=-1727/4237
WEBS	5-12=-126/1349, 6-12=-925/168, 6-11=0/538, 7-11=-763/145, 7-10=0/278, 4-12=-925/171, 4-13=0/538, 3-13=-763/142, 3-14=0/278

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=834, 8=834.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 40-0-0 for 75.0 plf.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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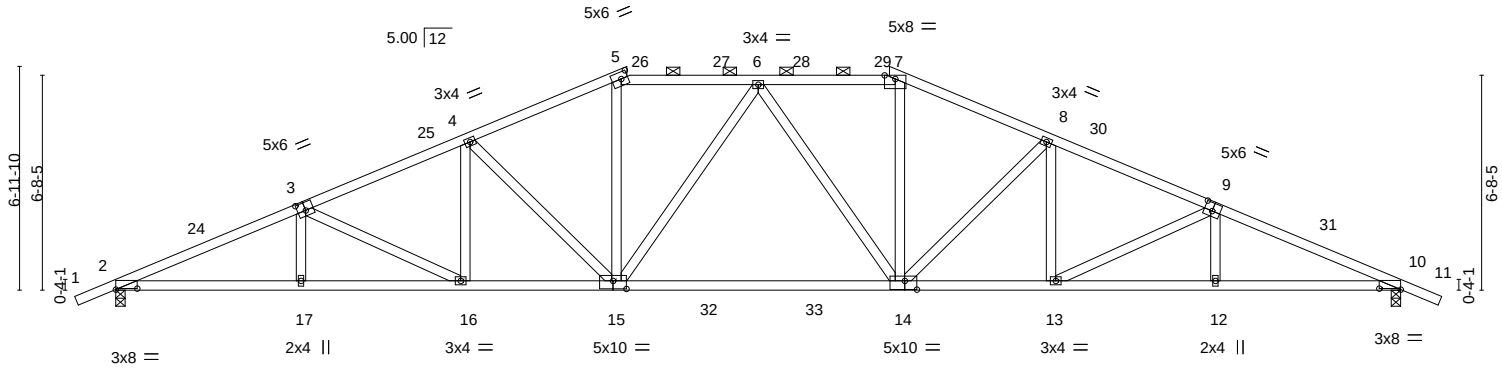
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A2B	HIP	1	1	R73704648
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:13 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-W1AkCVax46XRNrIb8GOaFY5j_jF0316oAt1AXwyE464

1-2-0	5-9-3	10-10-10	15-8-13	16-0-0	20-0-0	24-0-0	24-3-3	29-1-6	34-2-13	40-0-0	41-2-0
1-2-0	5-9-3	5-1-6	4-10-3	0-3-3	4-0-0	4-0-0	0-3-3	4-10-3	5-1-6	5-9-3	1-2-0

Scale = 1:71.7



5-9-3	10-10-10	15-8-13	16-0-0	24-0-0	24-3-3	29-1-6	34-2-13	40-0-0
5-9-3	5-1-6	4-10-3	0-3-3	8-0-0	0-3-3	4-10-3	5-1-6	5-9-3

Plate Offsets (X,Y)-- [2:0-8-0,0-0-6], [3:0-3-0,0-3-0], [5:0-2-8,0-2-8], [9:0-3-0,0-3-0], [10:0-8-0,0-0-6], [14:0-4-8,0-3-4], [15:0-5-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.39	14-15	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.83	14-15	>576	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.21	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.18	14-15	>999	240	Weight: 172 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-1-9 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-128(LC 10)
Max Uplift 2=-206(LC 12), 10=-206(LC 12)
Max Grav 2=2041(LC 17), 10=2041(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4394/471, 3-4=-3748/465, 4-5=-3198/431, 5-6=-2889/421, 6-7=-2896/421, 7-8=-3187/430, 8-9=-3750/464, 9-10=-4397/472
BOT CHORD 2-17=-357/4105, 16-17=-359/4098, 15-16=-282/3482, 14-15=-227/3056, 13-14=-294/3396, 12-13=-370/4008, 10-12=-369/4012
WEBS 3-16=-686/87, 4-16=0/416, 8-13=0/418, 9-13=-690/87, 5-15=-72/1020, 4-15=-747/150, 7-14=-71/1016, 8-14=-755/150, 6-15=-392/93, 6-14=-387/94

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 15-7-1, Exterior(2R) 15-7-1 to 21-2-15, Interior(1) 21-2-15 to 24-4-15, Exterior(2R) 24-4-15 to 30-0-13, Interior(1) 30-0-13 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A2M	ROOF TRUSS	5	1	R73704649
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 12:02:22 2022 Page 1
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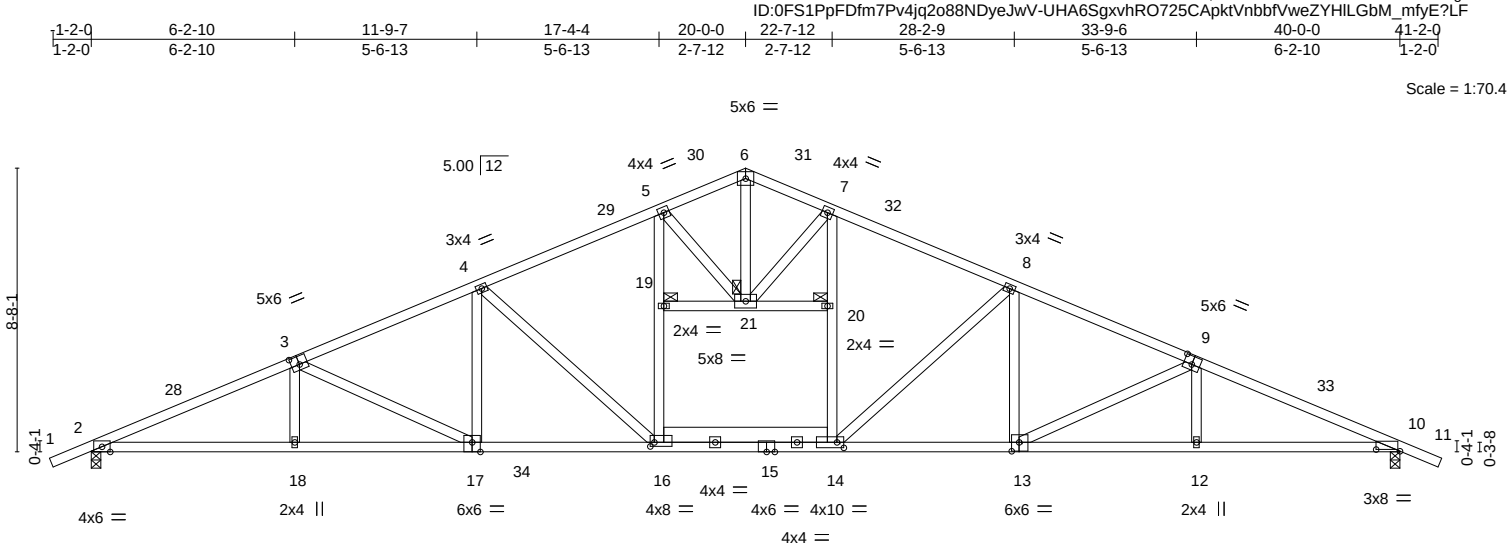

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [9:0-3-0,0-3-0], [10:0-8-12,0-0-10], [13:0-2-12,0-3-4], [14:0-2-8,0-2-0], [16:0-1-8,0-1-8], [17:0-3-0,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.31	16-17	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.65	16-17	>737	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.21	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.18	14-16	>999	240	Weight: 188 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E *Except*
	14-16: 2x6 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std *Except*
	7-14,8-14,5-16,4-16: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD	Sheathed.
BOT CHORD	Rigid ceiling directly applied.
JOINTS	1 Brace at Jt(s): 19, 20, 21

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-161(LC 10)
Max Uplift 2=-131(LC 12), 10=-131(LC 12)
Max Grav 2=2161(LC 17), 10=2146(LC 18)

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

TOP CHORD	2-3=-4657/250, 3-4=-4004/231, 4-5=-3282/213, 5-6=-2453/203, 6-7=-2457/203, 7-8=-3266/213, 8-9=-3957/231, 9-10=-4622/250
BOT CHORD	2-18=-148/4370, 17-18=-150/4363, 16-17=-58/3711, 14-16=0/2976, 13-14=-64/3580, 12-13=-156/4210, 10-12=-154/4217
WEBS	14-20=-24/825, 7-20=-24/824, 8-14=-915/136, 8-13=0/516, 9-13=-724/106, 16-19=-24/884, 5-19=-24/883, 4-16=-956/136, 4-17=0/547, 3-17=-711/106, 6-21=-187/1659, 5-21=-1167/140, 7-21=-1121/140

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0 , Interior(1) 24-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 150.0lb AC unit load placed on the top chord, 20-0-0 from left end, supported at two points, 2-6-0 apart.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) All bearings are assumed to be User Defined crushing capacity of 425 psi.
7) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
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.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil) CERTIFICATE NO. 74609 DUSTIN REINMUTH Date Signed ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A3B	HIP	1	1	R73704650

Job Reference (optional)

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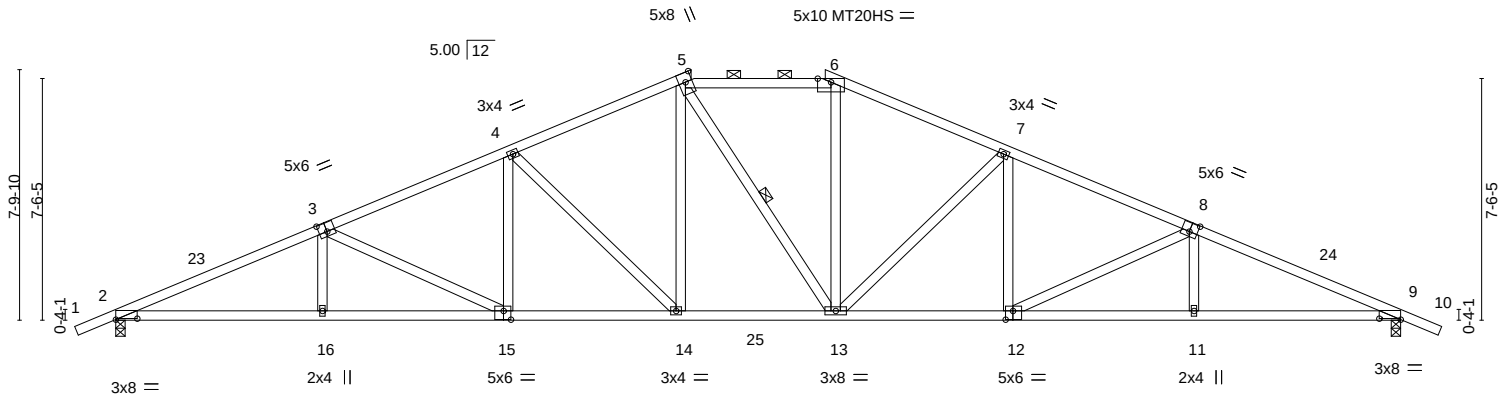
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-OpQF2seS8L1ssScMN6TWPOGOrKdq?nkN5V?NghyE460

1-2-0	6-5-3	12-2-10	17-8-13	18-0-0	22-0-0	22-3-3	27-9-6	33-6-13	40-0-0	41-2-0
1-2-0	6-5-3	5-9-6	5-6-3	0-3-3	4-0-0	0-3-3	5-6-3	5-9-6	6-5-3	1-2-0

Scale = 1:71.7



6-5-3	12-2-10	17-8-13	18-0-0	22-0-0	22-3-3	27-9-6	33-6-13	40-0-0
6-5-3	5-9-6	5-6-3	0-3-3	4-0-0	0-3-3	5-6-3	5-9-6	6-5-3

Plate Offsets (X,Y)-- [2:0-8-0,0-0-6], [3:0-3-0,0-3-4], [8:0-3-0,0-3-4], [9:0-8-0,0-0-6], [12:0-2-12,0-3-4], [15:0-2-12,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.23	13-14	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.56	14-15	>858	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.21	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.18	14	>999	240	Weight: 172 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std *Except* 7-13: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-3-14 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-13

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-142(LC 10)
Max Uplift 2=-206(LC 12), 9=-206(LC 12)
Max Grav 2=2031(LC 17), 9=2028(LC 18)

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

TOP CHORD	2-3=-4317/460, 3-4=-3598/445, 4-5=-2936/421, 5-6=-2625/416, 6-7=-2903/420, 7-8=-3592/445, 8-9=-4311/460
BOT CHORD	2-16=-340/4041, 15-16=-342/4034, 14-15=-249/3327, 13-14=-151/2711, 12-13=-262/3239, 11-12=-354/3922, 9-11=-352/3929
WEBS	3-15=-772/106, 4-15=0/536, 7-12=0/536, 8-12=-774/106, 5-14=-34/786, 6-13=-55/862, 4-14=-840/137, 7-13=-912/148

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 17-7-14, Exterior(2E) 17-7-14 to 22-4-15, Exterior(2R) 22-4-15 to 27-9-6, Interior(1) 27-9-6 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

EXPIRES: 12/31/2024
November 30,2022

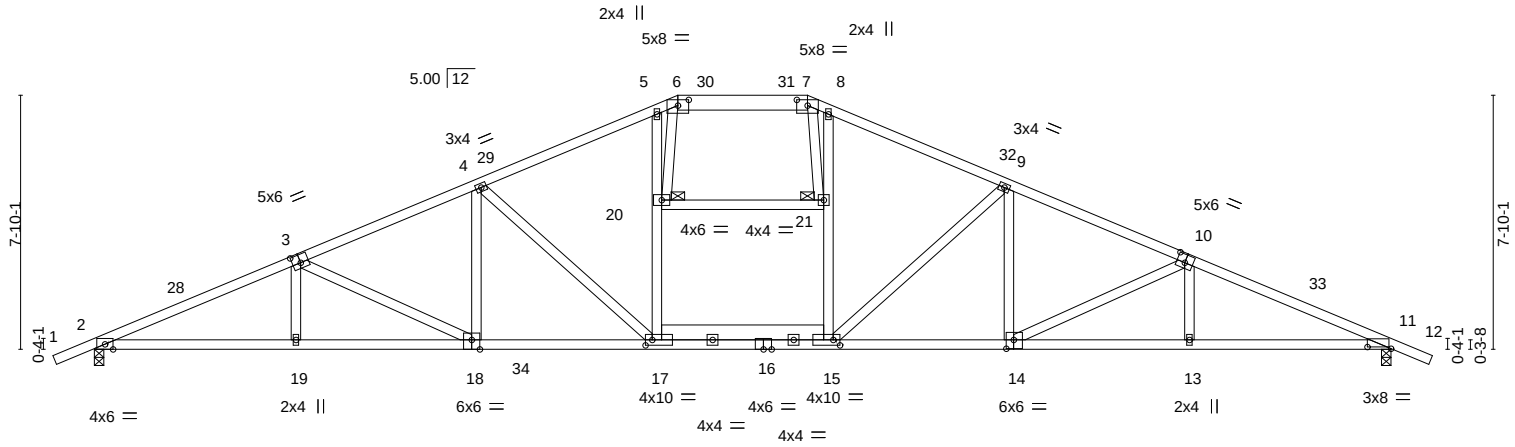
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A3M	ROOF TRUSS	1	1	R73704651
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 12:03:00 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-NbTURgOlk7Bkcx6U2iZQJcA8uEcSSU9x?VZ?5SyE?Kf

1-2-0 6-2-10 11-9-7 17-4-4 18-0-0 22-0-0 22-7-12 28-2-9 33-9-6 40-0-0 41-2-0
1-2-0 6-2-10 5-6-13 5-6-13 0-7-12 4-0-0 0-7-12 5-6-13 5-6-13 6-2-10 1-2-0

Scale = 1:71.1



6-2-10 11-9-7 17-4-4 22-7-12 28-2-9 33-9-6 40-0-0
6-2-10 5-6-13 5-6-13 5-3-8 5-6-13 5-6-13 6-2-10

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [6:0-4-0,0-2-2], [7:0-4-0,0-2-2], [10:0-3-0,0-3-0], [11:0-8-12,0-0-10], [14:0-2-12,0-3-4], [15:0-2-8,0-2-0], [17:0-2-8,0-2-0], [18:0-3-0,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.33	17-18	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.67	17-18	>721	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.21	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.18	15-17	>999	240	Weight: 185 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
6-7: 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E *Except*
15-17: 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
4-17,9-15: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD Sheathed.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 20, 21

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-146(LC 10)
Max Uplift 2=-131(LC 12), 11=-131(LC 12)
Max Grav 2=2167(LC 17), 11=2151(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4670/265, 3-4=-4007/250, 4-5=-3281/220, 5-6=-3214/284, 6-7=-2833/202, 7-8=-3167/284, 8-9=-3266/220, 9-10=-3959/250, 10-11=-4636/265
BOT CHORD 2-19=-162/4371, 18-19=-164/4364, 17-18=-75/3715, 15-17=0/2922, 14-15=-87/3580, 13-14=-176/4222, 11-13=-174/4229
WEBS 3-18=-707/107, 4-18=0/548, 4-17=-964/151, 17-20=-24/885, 5-20=-337/203, 15-21=-24/828, 8-21=-339/203, 9-14=0/516, 10-14=-722/107, 9-15=-920/151, 6-20=-228/1179, 7-21=-228/1049

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 18-0-0, Exterior(2E) 18-0-0 to 22-0-0 , Exterior(2R) 22-0-0 to 27-7-14, Interior(1) 27-7-14 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 150.0lb AC unit load placed on the top chord, 20-0-0 from left end, supported at two points, 2-6-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be User Defined crushing capacity of 425 psi.
8) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

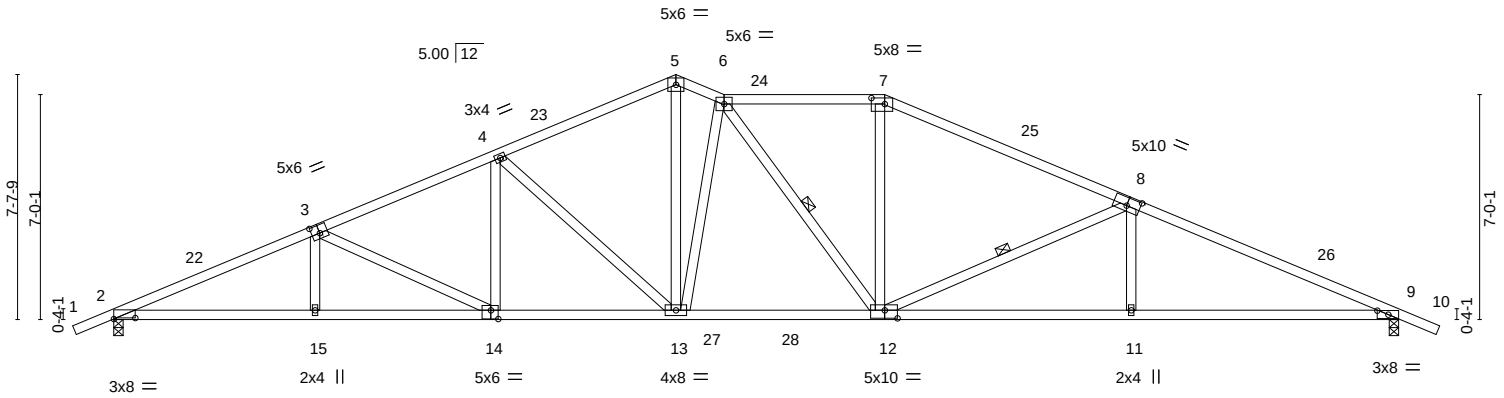
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A4	Roof Special	1	1	R73704652
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:22 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-lmD85Zhbytf9yDUKAf2h6RzBgLI4g7m7Fmj8LvyE45x

1-2-0	6-3-3	11-10-10	17-6-0	19-0-0	24-0-0	31-8-2	40-0-0	41-2-0
1-2-0	6-3-3	5-7-6	5-7-6	1-6-0	5-0-0	7-8-2	8-3-14	1-2-0

Scale = 1:71.7



6-3-3	11-10-10	17-6-0	24-0-0	31-8-2	40-0-0
6-3-3	5-7-6	5-7-6	6-6-0	7-8-2	8-3-14

Plate Offsets (X,Y)-- [2:0-8-0,0-0-6], [3:0-3-0,0-3-0], [7:0-5-0,0-2-4], [8:0-5-0,0-3-0], [9:0-4-2,0-1-8], [12:0-4-12,0-3-0], [14:0-2-12,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.27	12-13	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.62	12-13	>777	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.21	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.19	12-13	>999	240	Weight: 167 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std *Except* 4-13,5-13,6-13: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 6-12, 8-12

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-142(LC 10)
Max Uplift 2=-206(LC 12), 9=-206(LC 12)
Max Grav 2=2030(LC 17), 9=2030(LC 18)

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

TOP CHORD	2-3=-4326/502, 3-4=-3636/491, 4-5=-2933/460, 5-6=-2842/482, 6-7=-2822/462, 7-8=-3156/466, 8-9=-4176/501
BOT CHORD	2-15=-386/4050, 14-15=-388/4043, 13-14=-303/3363, 12-13=-233/2907, 11-12=-350/3787, 9-11=-347/3795
WEBS	3-14=-743/101, 4-14=0/517, 4-13=-908/152, 5-13=-226/1879, 6-13=-1135/201, 7-12=-14/795, 8-12=-1128/183, 8-11=0/343

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 17-6-0, Exterior(2E) 17-6-0 to 19-0-0, Interior(1) 19-0-0 to 24-0-0, Exterior(2R) 24-0-0 to 28-0-0, Interior(1) 28-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

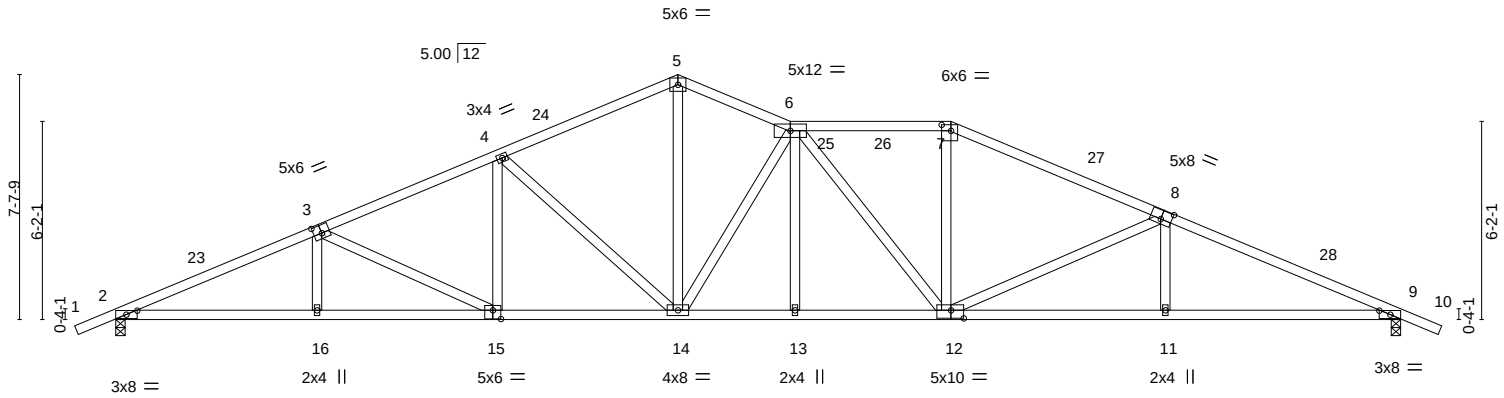
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A5	Roof Special	1	1	R73704653
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:24 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-h9LuWFjrUVvtBXeiH459Bs2Zp90C8y4Pi4CFPnyE45v

1-2-0	6-3-3	11-10-10	17-6-0	21-0-0	26-0-0	32-8-2	40-0-0	41-2-0
1-2-0	6-3-3	5-7-6	5-7-6	3-6-0	5-0-0	6-8-2	7-3-14	1-2-0

Scale = 1:71.7



6-3-3	11-10-10	17-6-0	21-0-0	26-0-0	32-8-2	40-0-0
6-3-3	5-7-6	5-7-6	3-6-0	5-0-0	6-8-2	7-3-14

Plate Offsets (X,Y)-- [2:0-4-2,0-1-8], [3:0-3-0,0-3-0], [7:0-3-8,0-2-4], [8:0-4-0,0-3-4], [9:0-4-2,0-1-8], [12:0-4-12,0-3-0], [15:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.20	13	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.55	13	>867	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.19	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.20	13	>999	240	Weight: 170 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
6-14: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-142(LC 10)
Max Uplift 2=-206(LC 12), 9=-206(LC 12)
Max Grav 2=1843(LC 1), 9=1843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3931/495, 3-4=-3313/483, 4-5=-2656/455, 5-6=-2613/474, 6-7=-2751/474, 7-8=-3077/484, 8-9=-3875/509
BOT CHORD 2-16=-380/3566, 15-16=-382/3561, 14-15=-297/2980, 13-14=-289/2985, 12-13=-288/2986, 11-12=-373/3502, 9-11=-370/3506
WEBS 3-15=-645/102, 4-15=0/474, 4-14=-807/152, 5-14=-221/1654, 6-14=-1181/210, 6-12=-384/64, 7-12=-32/785, 8-12=-835/162, 8-11=0/295

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 17-6-0, Exterior(2E) 17-6-0 to 21-0-0, Interior(1) 21-0-0 to 26-0-0, Exterior(2R) 26-0-0 to 30-0-0, Interior(1) 30-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

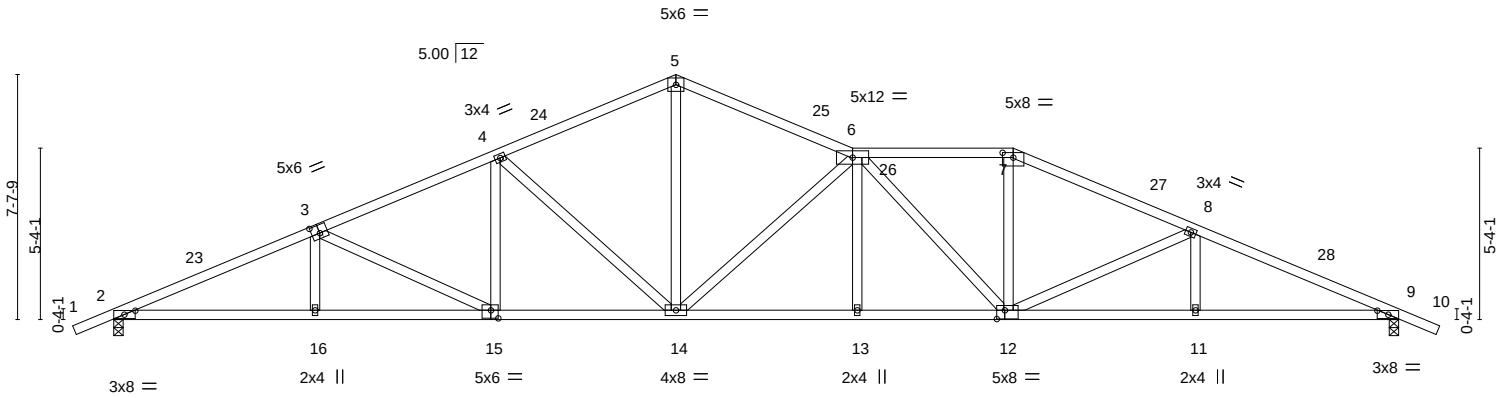
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A6	Roof Special	1	1	R73704654
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:26 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-eXSfxxl506AbRqo5PV7dHH7wCziRcr6iAOhMUgyE45t

1-2-0	6-3-3	11-10-10	17-6-0	23-0-0	28-0-0	33-8-2	40-0-0	41-2-0
1-2-0	6-3-3	5-7-6	5-7-6	5-6-0	5-0-0	5-8-2	6-3-14	1-2-0

Scale = 1:71.7



6-3-3	11-10-10	17-6-0	23-0-0	28-0-0	33-8-2	40-0-0
6-3-3	5-7-6	5-7-6	5-6-0	5-0-0	5-8-2	6-3-14

Plate Offsets (X,Y)-- [2:0-4-2,0-1-8], [3:0-3-0,0-3-0], [7:0-4-0,0-1-13], [9:0-4-2,0-1-8], [12:0-3-0,0-3-4], [15:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.21	13-14	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.60	13-14	>803	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.20	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.21	13-14	>999	240	Weight: 166 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
6-14: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-142(LC 10)
Max Uplift 2=-206(LC 12), 9=-206(LC 12)
Max Grav 2=1843(LC 1), 9=1843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3932/489, 3-4=-3311/477, 4-5=-2661/452, 5-6=-2652/460, 6-7=-2982/488, 7-8=-3262/499, 8-9=-3937/528
BOT CHORD 2-16=-374/3567, 15-16=-376/3563, 14-15=-290/2978, 13-14=-354/3420, 12-13=-352/3423, 11-12=-418/3573, 9-11=-418/3573
WEBS 3-15=-647/103, 4-15=0/466, 4-14=-800/151, 5-14=-193/1599, 6-14=-1401/254, 6-12=-643/96, 7-12=-51/871, 8-12=-703/141

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 17-6-0, Exterior(2R) 17-6-0 to 21-6-0, Interior(1) 21-6-0 to 28-0-0, Exterior(2R) 28-0-0 to 32-0-0, Interior(1) 32-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
74609
DUSTIN
REINMUTH
Date Signed
ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

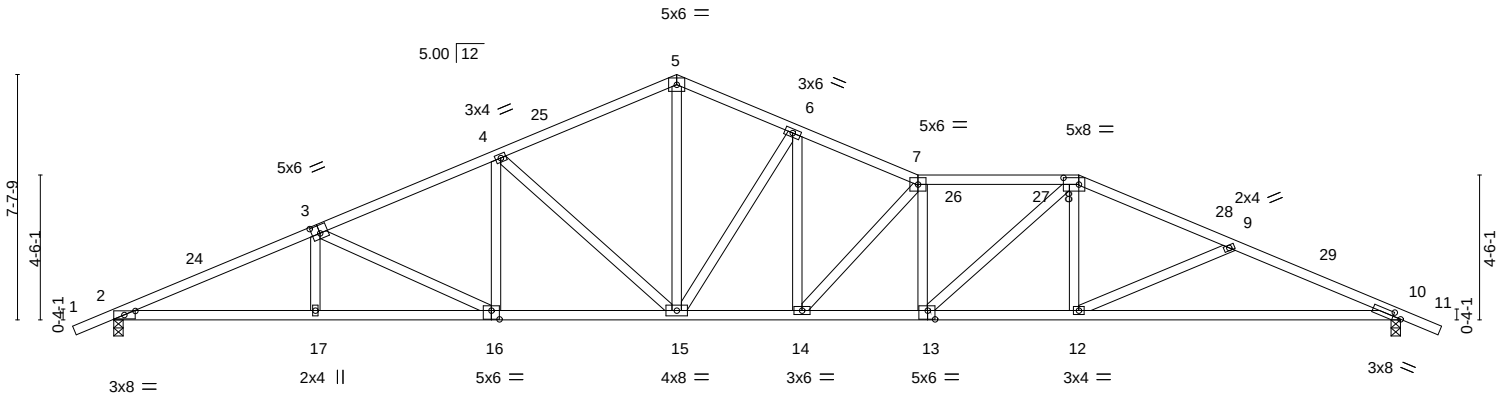
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A7	Roof Special	1	1	R73704655
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:28 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-awaPMdmLYjQIg8yUWw95MiDGfmLq4lZ?diASYYyE45r

1-2-0	6-3-3	11-10-10	17-6-0	21-3-0	25-0-0	30-0-0	34-8-2	40-0-0	41-2-0
1-2-0	6-3-3	5-7-6	5-7-6	3-9-0	3-9-0	5-0-0	4-8-2	5-3-14	1-2-0

Scale = 1:71.6



6-3-3	11-10-10	17-6-0	21-3-0	25-0-0	30-0-0	40-0-0
6-3-3	5-7-6	5-7-6	3-9-0	3-9-0	5-0-0	10-0-0

Plate Offsets (X,Y)-- [2:0-4-2,0-1-8], [3:0-3-0,0-3-0], [8:0-5-12,0-2-8], [10:0-3-0,0-1-8], [13:0-2-12,0-3-4], [16:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.25	12-23	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.65	12-23	>740	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.20	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.23	13-14	>999	240	Weight: 172 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
6-15: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=142(LC 11)
Max Uplift 2=-206(LC 12), 10=-206(LC 12)
Max Grav 2=1843(LC 1), 10=1843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3931/482, 3-4=-3313/470, 4-5=-2657/441, 5-6=-2622/460, 6-7=-3344/526, 7-8=-3872/595, 8-9=-3500/500, 9-10=-3927/573
BOT CHORD 2-17=-368/3566, 16-17=-370/3562, 15-16=-284/2980, 14-15=-277/3045, 13-14=-430/3913, 12-13=-309/3182, 10-12=-463/3594
WEBS 3-16=-645/102, 4-16=0/473, 4-15=-806/151, 5-15=-212/1659, 6-15=-1216/222, 6-14=-125/1048, 7-14=-1306/231, 7-13=-572/134, 8-13=-150/927, 8-12=0/475, 9-12=-469/168

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 17-6-0, Exterior(2R) 17-6-0 to 21-3-0, Interior(1) 21-3-0 to 30-0-0, Exterior(2R) 30-0-0 to 34-0-0, Interior(1) 34-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil) CERTIFICATE NO. 74609 DUSTIN REINMUTH Date Signed ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A7C	Roof Special	1	1	R73704656
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:30 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-WJiAnJoc4Lg0vS5seLCZR7IdQa5tYgHl40fZdRyE45p

1-2-0	6-6-0	13-6-12	19-9-0	25-3-0	26-6-0	31-6-0	36-6-0	38-0-0	40-0-0	41-2-0
1-2-0	6-6-0	7-0-12	6-2-4	5-6-0	1-3-0	5-0-0	5-0-0	1-6-0	2-0-0	1-2-0

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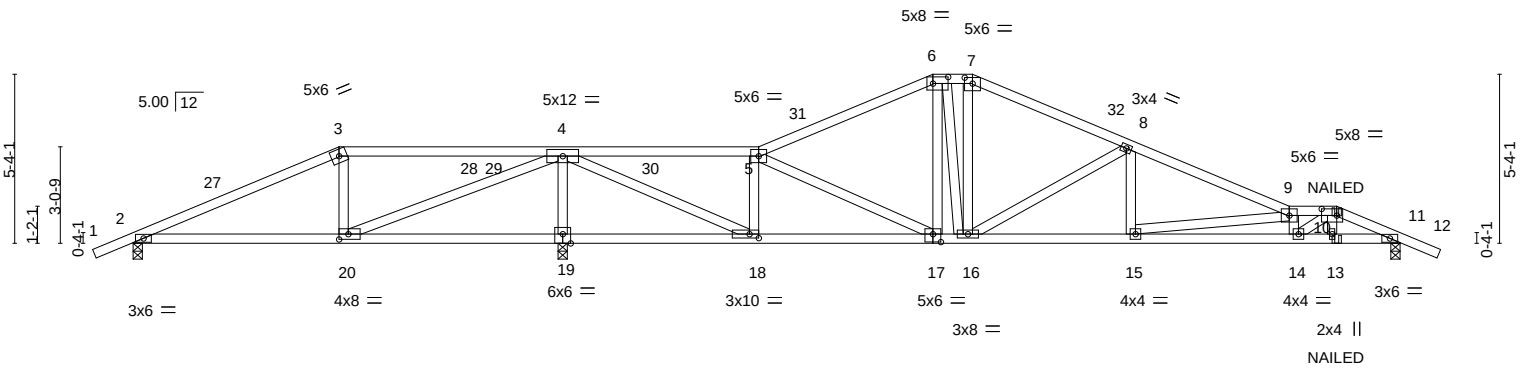

6-6-0	13-6-12	19-9-0	25-3-0	26-6-0	31-6-0	36-6-0	38-0-0	40-0-0
6-6-0	7-0-12	6-2-4	5-6-0	1-3-0	5-0-0	5-0-0	1-6-0	2-0-0

Plate Offsets (X,Y)-- [6:0-5-12,0-2-8], [7:0-3-0,0-2-4], [10:0-5-12,0-2-8], [17:0-3-0,0-3-0], [18:0-3-8,0-1-8], [19:0-3-0,Edge], [20:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.10	14-15	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.30	14-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.10	14-15	>999	240	Weight: 163 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
4-18: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 19=0-3-8, 11=0-3-8
Max Horz 2=-101(LC 10)
Max Uplift 2=-84(LC 35), 19=-190(LC 12), 11=-142(LC 12)
Max Grav 2=427(LC 23), 19=2216(LC 1), 11=1094(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-288/120, 4-5=-849/187, 5-6=-1235/242, 6-7=-1112/258, 7-8=-1271/255, 8-9=-2091/310, 9-10=-3093/407, 10-11=-2194/285
BOT CHORD 19-20=-1340/214, 18-19=-1340/214, 17-18=-93/897, 16-17=-64/1073, 15-16=-198/1899, 14-15=-368/3214, 13-14=-216/2005, 11-13=-214/1995
WEBS 3-20=-404/147, 4-20=-211/1531, 4-19=-2072/349, 4-18=-321/2406, 5-18=-899/205, 5-17=0/285, 6-16=-52/277, 7-16=-65/316, 8-16=-918/167, 8-15=0/452, 9-15=-1335/194, 9-14=-739/166, 10-14=-179/1296

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 6-6-0, Exterior(2R) 6-6-0 to 10-6-0, Interior(1) 10-6-0 to 25-3-0, Exterior(2E) 25-3-0 to 26-6-0, Exterior(2R) 26-6-0 to 30-6-0, Interior(1) 30-6-0 to 38-0-0, Exterior(2E) 38-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 19, and 11. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

EXPIRES: 12/31/2024
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LOAD CASE(S) Standard

Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

LOAD CASE(S) Standard

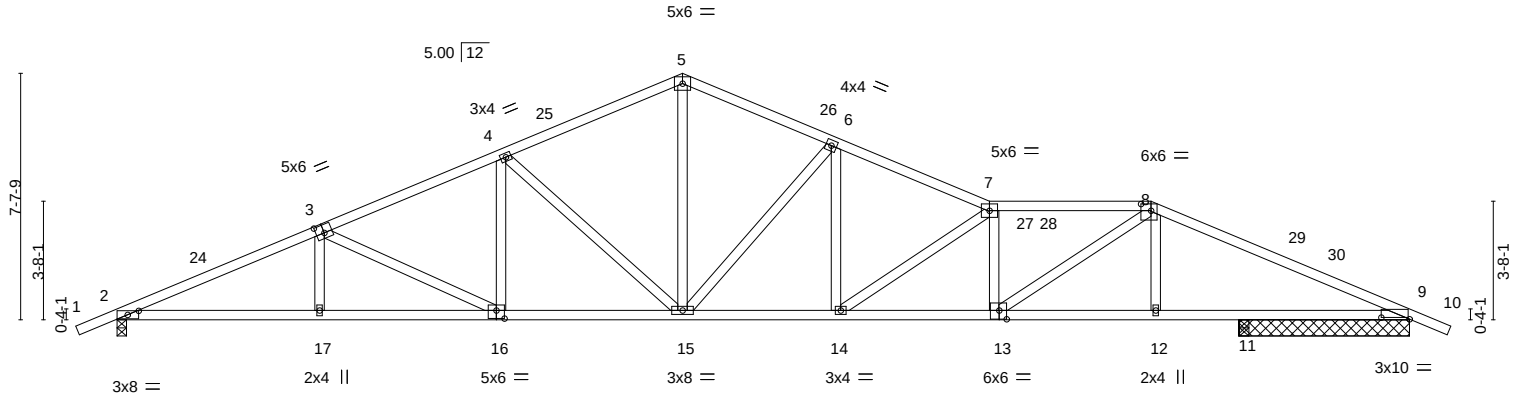
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-68, 3-5=-68, 5-6=-68, 6-7=-68, 7-9=-68, 9-10=-68, 10-12=-68, 21-24=-20
   Concentrated Loads (lb)
   Vert: 13=-2(B)

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A8	Roof Special	1	1	R73704657
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 12:10:50 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-c0s94N4Z2XO2_92paQ?eNjeSWizWa1874dPtbCyE?DJ

1-2-0	6-3-3	11-10-10	17-6-0	22-3-0	27-0-0	32-0-0	40-0-0	41-2-0
1-2-0	6-3-3	5-7-6	5-7-6	4-9-0	4-9-0	5-0-0	8-0-0	1-2-0

Scale = 1:71.3



6-3-3	11-10-10	17-6-0	22-3-0	27-0-0	32-0-0	35-0-6	40-0-0
6-3-3	5-7-6	5-7-6	4-9-0	4-9-0	5-0-0	3-0-6	4-11-10

Plate Offsets (X,Y)-- [2:0-4-2,0-1-8], [3:0-3-0,0-3-0], [8:0-3-12,0-2-8], [9:0-10-8,0-0-10], [13:0-2-12,0-3-4], [16:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.22	14	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.59	14	>708	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.17	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.21	14	>999	240	Weight: 163 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E *Except*
9-13: 2x4 SPF 2100F 1.8E
WEBS 2x4 HF/SPF Stud/Std *Except*
6-15,7-14: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Sheathed.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 9=5-3-8, 11=0-3-8
Max Horz 2=-142(LC 10)
Max Uplift 2=-202(LC 12), 9=-180(LC 12), 11=-30(LC 12)
Max Grav 2=1766(LC 1), 9=1317(LC 1), 11=603(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3735/460, 3-4=-3113/448, 4-5=-2459/419, 5-6=-2445/435, 6-7=-3243/506, 7-8=-3910/604, 8-9=-2846/446
BOT CHORD 2-17=-347/3386, 16-17=-350/3381, 15-16=-263/2796, 14-15=-279/2944, 13-14=-471/3979, 12-13=-300/2538, 11-12=-295/2524, 9-11=-295/2524
WEBS 3-16=-648/103, 4-16=0/471, 4-15=-806/152, 5-15=-183/1488, 6-15=-1122/212, 6-14=-77/805, 7-14=-1270/236, 7-13=-787/163, 8-13=-193/1689, 8-12=-334/108

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 17-6-0, Exterior(2R) 17-6-0 to 21-6-0 , Interior(1) 21-6-0 to 32-0-0, Exterior(2R) 32-0-0 to 36-0-0, Interior(1) 36-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be User Defined crushing capacity of 425 psi.
7) n/a

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.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
74609
DUSTIN
REINMUTH
Date Signed
ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

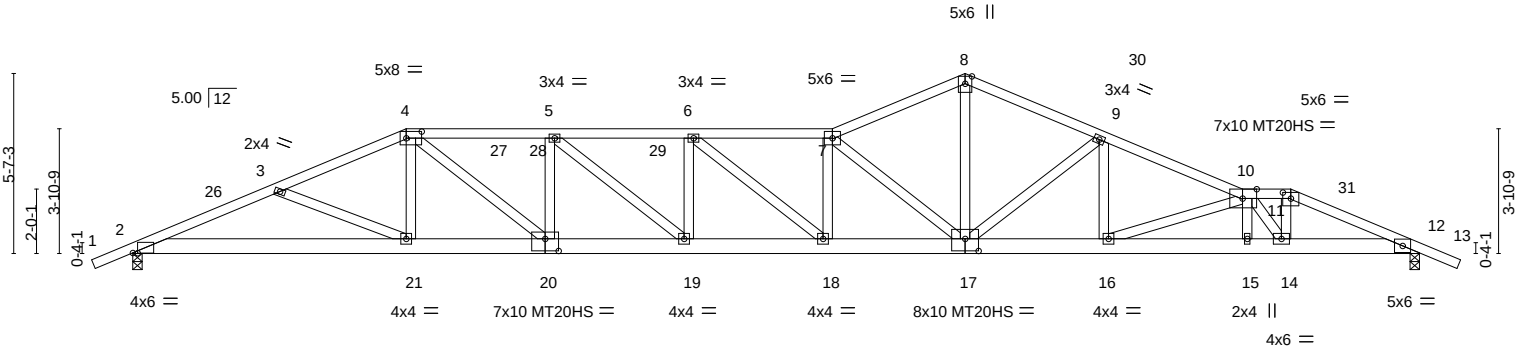
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A8C	Roof Special	1	1	R73704658
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:35 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-tGV3q0rkutlJ0D_qRunk8B?UlbrzDyq1EIMKIeyE45k

1-2-0	4-6-14	8-6-0	12-11-9	17-3-7	21-9-0	25-10-8	30-2-4	34-6-0	36-0-0	40-0-0	41-2-0
1-2-0	4-6-14	3-11-2	4-5-9	4-3-13	4-5-9	4-1-8	4-3-12	4-3-12	1-6-0	4-0-0	1-2-0

Scale = 1:71.6



8-6-0	12-11-9	17-3-7	21-9-0	25-10-8	30-2-4	34-6-0	36-0-0	40-0-0
8-6-0	4-5-9	4-3-13	4-5-9	4-1-8	4-3-12	4-3-12	1-6-0	4-0-0

Plate Offsets (X,Y)-- [2:0-1-13,0-0-1], [4:0-5-12,0-2-8], [10:0-5-4,Edge], [11:0-3-0,0-2-4], [17:0-5-0,0-4-8], [20:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.27	18-19	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.75	18-19	>638	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.15	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.27	18-19	>999	240	Weight: 191 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E *Except*
4-7: 2x4 SPF 2100F 1.8E
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 HF/SPF Stud/Std *Except*
7-17,8-17: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=105(LC 11)
Max Uplift 2=-206(LC 12), 12=-206(LC 12)
Max Grav 2=1843(LC 1), 12=1843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4067/600, 3-4=-3729/513, 4-5=-4363/636, 5-6=-4937/692, 6-7=-4951/701, 7-8=-3407/527, 8-9=-3419/518, 9-10=-4181/591, 10-11=-3900/566, 11-12=-4121/576
BOT CHORD 2-21=-515/3732, 20-21=-361/3406, 19-20=-481/4394, 18-19=-540/4937, 17-18=-559/4950, 16-17=-424/3831, 15-16=-597/4941, 14-15=-591/4933, 12-14=-463/3773
WEBS 3-21=-369/167, 4-21=0/438, 4-20=-185/1232, 5-20=-738/156, 5-19=-75/699, 6-19=-325/101, 7-17=-2424/356, 8-17=-280/2280, 9-17=-929/181, 9-16=-15/579, 10-16=-1186/185, 10-14=-1615/213, 11-14=-154/1422

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 8-6-0, Exterior(2R) 8-6-0 to 12-6-0, Interior(1) 12-6-0 to 25-10-8, Exterior(2R) 25-10-8 to 29-10-8, Interior(1) 29-10-8 to 36-0-0, Exterior(2R) 36-0-0 to 40-0-0, Interior(1) 40-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil) CERTIFICATE NO. 74609 DUSTIN REINMUTH Date Signed ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

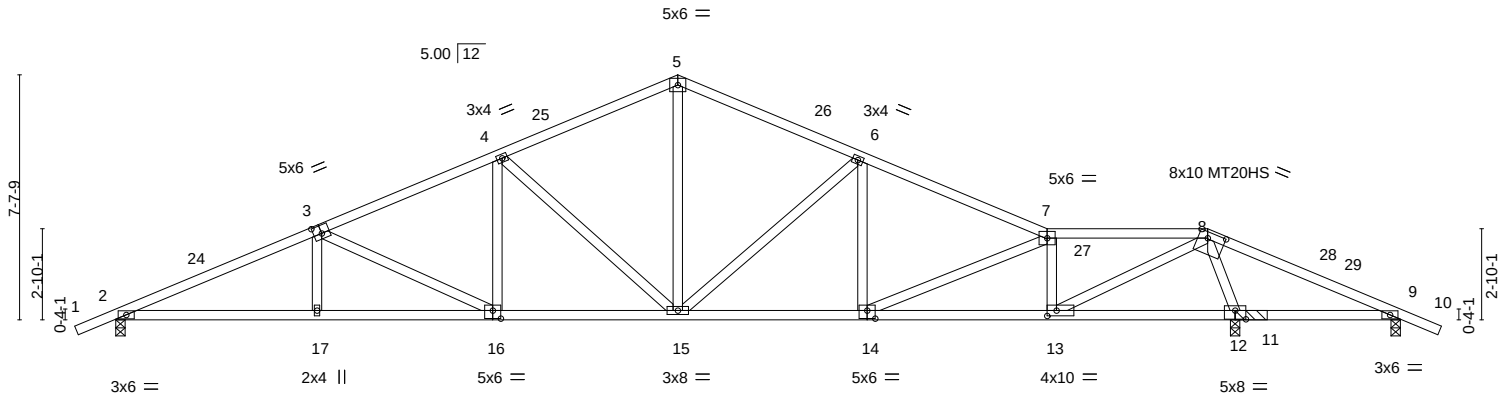
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A9	Roof Special	1	1	R73704659
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:37 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-pfdpFit?QUY1FX8CYJqCDc5nFOVchqnKhcrRNXyE45i

1-2-0	6-3-3	11-10-10	17-6-0	23-3-0	29-0-0	34-0-0	40-0-0	41-2-0
1-2-0	6-3-3	5-7-6	5-7-6	5-9-0	5-9-0	5-0-0	6-0-0	1-2-0

Scale = 1:71.7



6-3-3	11-10-10	17-6-0	23-3-0	29-0-0	34-10-4	40-0-0
6-3-3	5-7-6	5-7-6	5-9-0	5-9-0	5-10-4	5-1-12

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [8:0-6-8,0-2-4], [12:0-4-0,0-3-4], [13:0-3-8,0-2-0], [14:0-3-0,0-3-0], [16:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.11	15-16	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.33	15-16	>999	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.09	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.11	15-16	>999	240	Weight: 163 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
8-13: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 12=(0-3-8 + bearing block) (req. 0-4-4), 9=0-3-8
Max Horz 2=-142(LC 10)
Max Uplift 2=-177(LC 12), 12=-225(LC 12), 9=-516(LC 1)
Max Grav 2=1495(LC 1), 12=2707(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3047/361, 3-4=-2414/347, 4-5=-1758/325, 5-6=-1762/330, 6-7=-2096/325, 7-8=-1490/263, 8-9=-228/2122
BOT CHORD 2-17=-256/2751, 16-17=-258/2747, 15-16=-170/2150, 14-15=-132/1875, 13-14=-155/1562, 12-13=-1041/155, 9-12=-1883/282
WEBS 3-16=-657/105, 4-16=0/471, 4-15=-806/153, 5-15=-96/927, 6-15=-490/125, 7-14=-1/357, 7-13=-1248/231, 8-13=-334/2858, 8-12=-2648/401

NOTES-
1) 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 12 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 17-6-0, Exterior(2R) 17-6-0 to 21-6-0, Interior(1) 21-6-0 to 34-0-0, Exterior(2R) 34-0-0 to 38-0-0, Interior(1) 38-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) The Fabrication Tolerance at joint 8 = 16%
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 12, and 9. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

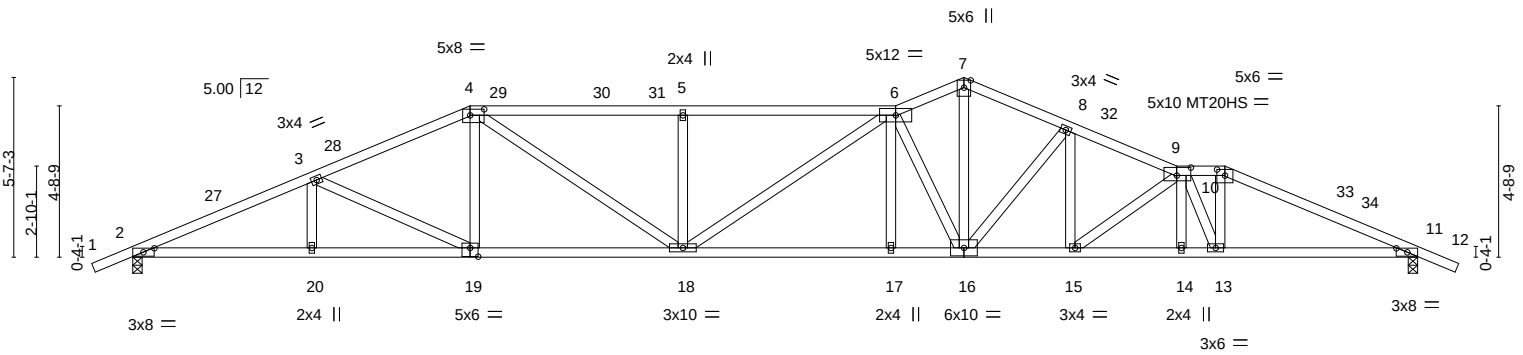
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A9C	Roof Special	1	1	R73704660
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:39 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-l1lZgOvFy6olVqIbgksgI1A82CBG9kod9wKYRQyE45g

1-2-0	5-6-14	10-6-0	17-1-8	23-9-0	25-10-8	29-2-4	32-6-0	34-0-0	40-0-0	41-2-0
1-2-0	5-6-14	4-11-2	6-7-8	6-7-8	2-1-8	3-3-12	3-3-12	1-6-0	6-0-0	1-2-0

Scale = 1:71.7



5-6-14	10-6-0	17-1-8	23-9-0	25-10-8	29-2-4	32-6-0	34-0-0	40-0-0
5-6-14	4-11-2	6-7-8	6-7-8	2-1-8	3-3-12	3-3-12	1-6-0	6-0-0

Plate Offsets (X,Y)-- [2:0-4-2,0-1-8], [4:0-5-4,0-2-4], [9:0-5-4,0-3-0], [10:0-3-0,0-2-4], [11:0-4-2,0-1-8], [19:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.25	17-18	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.72	17-18	>666	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.18	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.25	17-18	>999	240	Weight: 171 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 HF/SPF Stud/Std *Except*
7-16: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-105(LC 10)
Max Uplift 2=-206(LC 12), 11=-206(LC 12)
Max Grav 2=1843(LC 1), 11=1843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3968/524, 3-4=-3442/513, 4-5=-3966/612, 5-6=-3966/612, 6-7=-3322/558, 7-8=-3340/544, 8-9=-3866/596, 9-10=-3629/581, 10-11=-3930/584
BOT CHORD 2-20=-415/3607, 19-20=-415/3607, 18-19=-299/3116, 17-18=-408/3856, 16-17=-410/3853, 15-16=-411/3550, 14-15=-524/4163, 13-14=-522/4160, 11-13=-461/3562
WEBS 3-19=-548/128, 4-19=0/445, 4-18=-139/1021, 5-18=-505/166, 6-18=-60/271, 6-16=-1865/256, 7-16=-346/2337, 8-16=-782/172, 8-15=-40/564, 9-15=-773/143, 9-13=-1130/148, 10-13=-86/1169

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 10-6-0, Exterior(2R) 10-6-0 to 14-6-0, Interior(1) 14-6-0 to 25-10-8, Exterior(2R) 25-10-8 to 29-10-8, Interior(1) 29-10-8 to 34-0-0, Exterior(2R) 34-0-0 to 38-0-0, Interior(1) 38-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

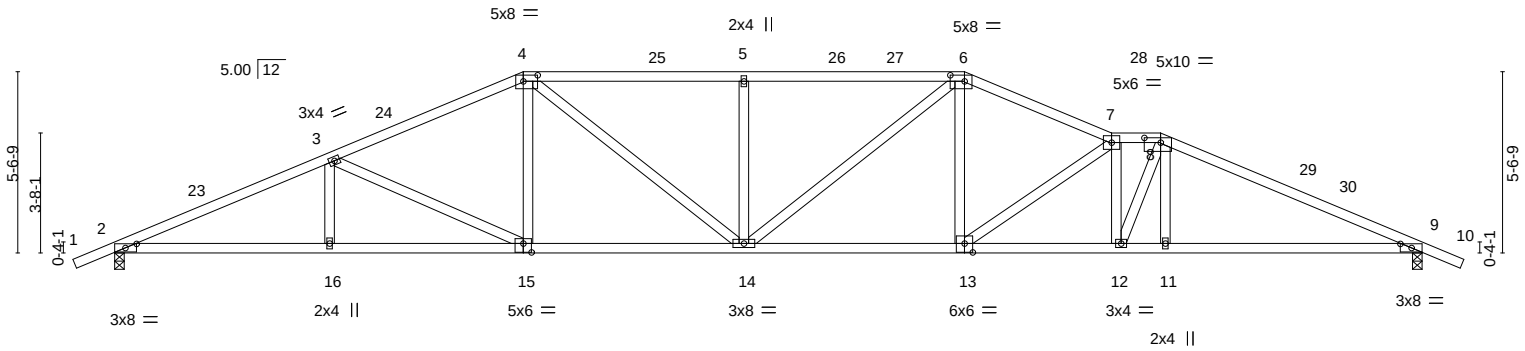
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A10C	Roof Special	1	1	R73704661
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:06 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-z8dP9anwsX4xqYhjjihs1QpAMjNzskYxmyJ7hJyE477

1-2-0	6-6-14	12-6-0	19-3-0	26-0-0	30-6-0	32-0-0	40-0-0	41-2-0
1-2-0	6-6-14	5-11-2	6-9-0	6-9-0	4-6-0	1-6-0	8-0-0	1-2-0

Scale = 1:70.5



6-6-14	12-6-0	19-3-0	26-0-0	30-6-0	32-0-0	40-0-0
6-6-14	5-11-2	6-9-0	6-9-0	4-6-0	1-6-0	8-0-0

Plate Offsets (X,Y)-- [2:0-4-2,0-1-8], [4:0-5-4,0-2-4], [6:0-5-4,0-2-4], [8:0-6-0,0-1-12], [9:0-4-2,0-1-8], [13:0-3-0,0-3-4], [15:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.21	14	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.61	13-14	>785	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.19	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.21	14	>999	240	Weight: 161 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-104(LC 10)
Max Uplift 2=-206(LC 12), 9=-206(LC 12)
Max Grav 2=1843(LC 1), 9=1843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3920/535, 3-4=-3237/505, 4-5=-3403/569, 5-6=-3403/569, 6-7=-3370/555, 7-8=-3711/624, 8-9=-3810/587
BOT CHORD 2-16=-417/3555, 15-16=-417/3555, 14-15=-284/2911, 13-14=-323/3080, 12-13=-487/3745, 11-12=-450/3421, 9-11=-448/3431
WEBS 3-15=-714/147, 4-15=0/514, 4-14=-97/732, 5-14=-505/162, 6-14=-49/543, 6-13=-52/683, 7-13=-832/205, 7-12=-799/128, 8-11=0/344, 8-12=-114/778

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 12-6-0, Exterior(2R) 12-6-0 to 16-6-0, Interior(1) 16-6-0 to 26-0-0, Exterior(2R) 26-0-0 to 30-0-0, Interior(1) 30-0-0 to 32-0-0, Exterior(2R) 32-0-0 to 36-0-0, Interior(1) 36-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

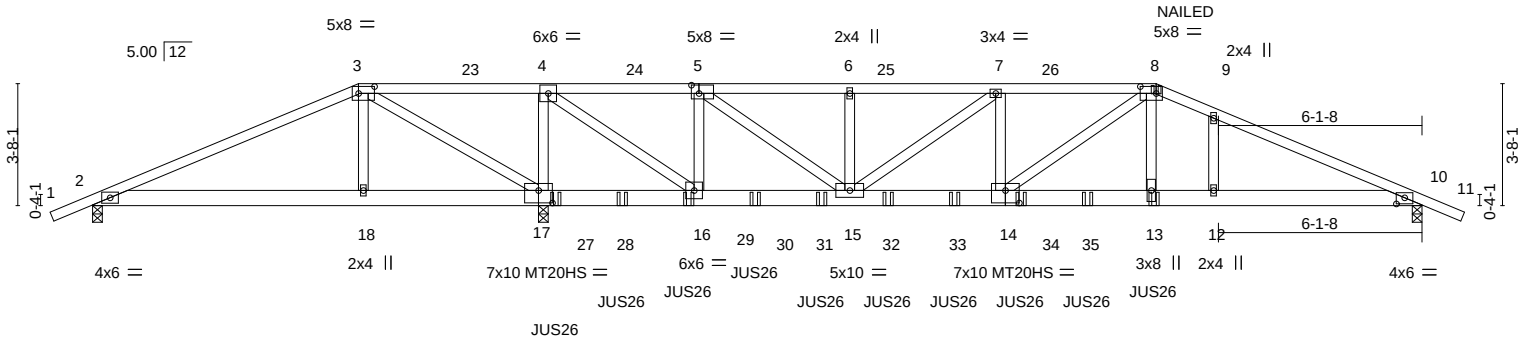
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A10G	HIP GIRDER	1	2	R73704662
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:10 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-swsw_yqQwlbNJ9_UyYmoBG_xaKnXoUiWhZHKq4yE473

1-2-0	8-0-0	13-6-12	18-2-15	22-9-6	27-3-13	32-0-0	33-10-8	40-0-0	41-2-0
1-2-0	8-0-0	5-6-12	4-8-3	4-6-7	4-6-7	4-8-3	1-10-8	6-1-8	1-2-0

Scale = 1:69.3



8-0-0	13-6-12	18-2-15	22-9-6	27-3-13	32-0-0	33-10-8	40-0-0
8-0-0	5-6-12	4-8-3	4-6-7	4-6-7	4-8-3	1-10-8	6-1-8

Plate Offsets (X,Y)-- [3:0-5-12,0-2-8], [5:0-2-12,0-3-0], [8:0-5-12,0-2-8], [10:0-3-0,0-2-3], [14:0-5-0,0-4-8], [17:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.10	12-22	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.28	12-22	>999	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.12	12-22	>999	240	Weight: 352 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
4-16: 2x4 SPF 1650F 1.5E

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

REACTIONS. (size) 2=0-3-8, 17=(0-3-8 + Two SBP4 USP) (req. 0-4-4), 10=0-3-8
Max Horz 2=-70(LC 6)
Max Uplift 2=-511(LC 27), 17=-794(LC 8), 10=-392(LC 8)
Max Grav 2=372(LC 13), 17=5424(LC 1), 10=2529(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-343/1966, 3-4=-485/3666, 4-5=-994/225, 5-6=-3802/645, 6-7=-3802/645, 7-8=-5016/816, 8-9=-5335/838, 9-10=-5421/798
BOT CHORD 2-18=-1769/361, 17-18=-1765/364, 16-17=-3510/591, 15-16=-133/994, 14-15=-683/4991, 13-14=-663/5021, 12-13=-652/4946, 10-12=-652/4946
WEBS 3-18=-1/275, 3-17=-2378/297, 4-17=-3543/592, 4-16=-836/5465, 5-16=-2325/392, 5-15=-519/3476, 6-15=-315/90, 7-15=-1480/210, 7-14=-107/604, 8-13=-251/1694

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17, 2, and 10. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) 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 13-11-4 from the left end to 31-11-4 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

Registered Professional Engineer (Civil) CERTIFICATE NO. 74609 DUSTIN REINMUTH Date Signed ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 774 lb down and 136 lb up at 33-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

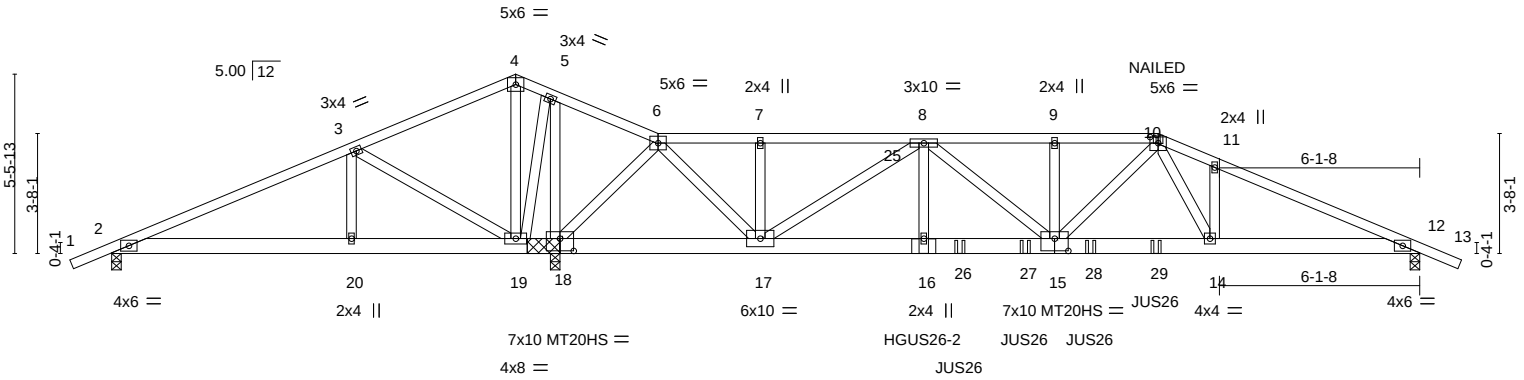
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-68, 3-8=-68, 8-11=-68, 2-10=-20
   Concentrated Loads (lb)
   Vert: 8=-19(B) 13=-319(B) 12=-774 27=-326(B) 28=-319(B) 29=-319(B) 30=-319(B) 31=-319(B) 32=-319(B) 33=-319(B) 34=-319(B) 35=-319(B)

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A10GP	Roof Special Girder	1	2	R73704663
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:13 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-GVY3d_sJCgzyAcj3dgJVpucTyXrD?pvzNXV_RPyE470

1-2-0	7-4-0	12-4-4	13-6-12	16-8-8	19-10-0	24-10-0	28-10-0	32-0-0	33-10-8	40-0-0	41-2-0
1-2-0	7-4-0	5-0-4	1-2-8	3-1-12	3-1-8	5-0-0	4-0-0	3-2-0	1-10-8	6-1-8	1-2-0

Scale = 1:70.5



7-4-0	12-4-4	13-6-12	16-8-8	19-10-0	24-10-0	28-10-0	32-0-0	33-10-8	40-0-0
7-4-0	5-0-4	1-2-8	3-1-12	3-1-8	5-0-0	4-0-0	3-2-0	1-10-8	6-1-8

Plate Offsets (X,Y)-- [10:0-3-0,0-2-4], [15:0-5-0,0-4-8], [18:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.09	14-15	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.23	14-15	>999	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.10	14-15	>999	240	Weight: 390 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 2=0-3-8, 18=(0-3-8 + bearing block) (req. 0-3-10), 12=0-3-8
Max Horz 2=103(LC 26)
Max Uplift 2=-516(LC 20), 18=-656(LC 8), 12=-411(LC 8)
Max Grav 2=360(LC 13), 18=4592(LC 1), 12=2557(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-352/1947, 3-4=-336/2468, 4-5=-296/2390, 5-6=-423/3091, 6-7=-1195/236, 7-8=-1195/236, 8-9=-5241/893, 9-10=-5241/893, 10-11=-5912/965, 11-12=-5937/915
BOT CHORD 2-20=-1752/378, 19-20=-1752/378, 18-19=-2685/518, 17-18=-1348/273, 16-17=-693/4596, 15-16=-693/4596, 14-15=-639/4636, 12-14=-759/5417
WEBS 3-20=0/388, 3-19=-860/127, 4-19=-1880/268, 5-19=-241/1854, 5-18=-2366/350, 6-18=-2186/389, 6-17=-548/3601, 7-17=-311/90, 10-15=-206/874, 8-16=-237/1393, 11-14=-321/141, 10-14=-258/1682, 8-17=-4094/705, 8-15=-88/852

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) 2x6 SPF 1650F 1.5E bearing block 12" long at jt. 18 attached to each face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners per block. User Defined Bearing crushing capacity= 425psi.
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 18, and 12. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

12) Use Simpson Strong-Tie HGUS26-2 (20-10d Girder, 6-10d Truss) or equivalent at 24-10-0 from the left end to connect truss(es) to back face of bottom chord.
13) 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 25-11-4 from the left end to 31-11-4 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 774 lb down and 136 lb up at 33-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

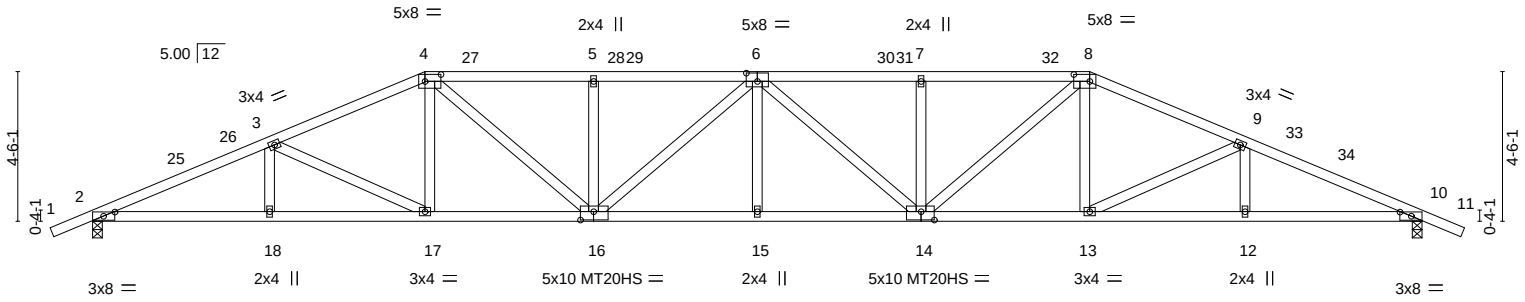
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-68, 4-6=-68, 6-10=-68, 10-13=-68, 2-12=-20
   Concentrated Loads (lb)
   Vert: 10=-19(B) 16=-1105(B) 14=-774 26=-319(B) 27=-319(B) 28=-319(B) 29=-319(B)

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A11	Hip	1	1	R73704664
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:16 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-h4EBF?uBVbLW14ReJotCRXE_RlpACGkP3Vke0jyE46z

1-2-0	5-3-14	10-0-0	15-0-14	20-0-0	24-11-2	30-0-0	34-8-2	40-0-0	41-2-0
1-2-0	5-3-14	4-8-2	5-0-14	4-11-2	4-11-2	5-0-14	4-8-2	5-3-14	1-2-0

Scale = 1:69.3



5-3-14	10-0-0	15-0-14	20-0-0	24-11-2	30-0-0	34-8-2	40-0-0
5-3-14	4-8-2	5-0-14	4-11-2	4-11-2	5-0-14	4-8-2	5-3-14

Plate Offsets (X,Y)-- [2:0-4-2,0-1-8], [4:0-5-12,0-2-8], [6:0-4-0,0-3-0], [8:0-5-12,0-2-8], [10:0-4-2,0-1-8], [14:0-4-12,0-3-0], [16:0-4-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.26	15	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.72	14-15	>664	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.21	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.26	15	>999	240	Weight: 164 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=85(LC 11)
Max Uplift 2=-206(LC 12), 10=-206(LC 12)
Max Grav 2=1843(LC 1), 10=1843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3983/480, 3-4=-3473/443, 4-5=-3949/523, 5-6=-3949/523, 6-7=-3949/523, 7-8=-3949/523, 8-9=-3473/443, 9-10=-3983/480
BOT CHORD 2-18=-369/3623, 17-18=-369/3623, 16-17=-267/3159, 15-16=-377/4200, 14-15=-377/4200, 13-14=-273/3159, 12-13=-381/3623, 10-12=-381/3623
WEBS 3-17=-527/120, 4-17=0/401, 4-16=-122/1095, 5-16=-354/125, 6-16=-390/38, 6-14=-390/38, 7-14=-354/125, 8-14=-122/1095, 8-13=0/401, 9-13=-527/120

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 10-0-0, Exterior(2R) 10-0-0 to 15-7-14, Interior(1) 15-7-14 to 30-0-0, Exterior(2R) 30-0-0 to 35-7-14, Interior(1) 35-7-14 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
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.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
74609
DUSTIN
REINMUTH
Date Signed
ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A11C	Roof Special	1	1	R73704665
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:18 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-dSLyghwR1DbEHOb1QDvgWyJHBYS5g9tiXpDl5cyE46x

1-2-0	7-6-14	14-6-0	19-3-0	24-0-0	28-6-0	30-0-0	34-8-2	40-0-0	41-2-0
1-2-0	7-6-14	6-11-2	4-9-0	4-9-0	4-6-0	1-6-0	4-8-2	5-3-14	1-2-0

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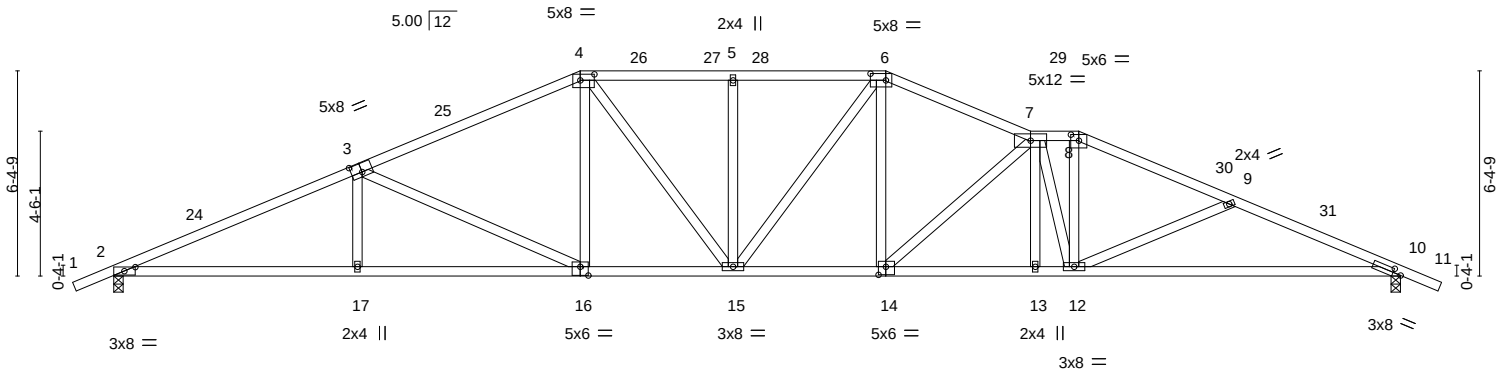


7-6-14	14-6-0	19-3-0	24-0-0	28-6-0	30-0-0	40-0-0
7-6-14	6-11-2	4-9-0	4-9-0	4-6-0	1-6-0	10-0-0

Plate Offsets (X,Y)-- [2:0-4-2,0-1-8], [3:0-4-0,0-3-4], [4:0-5-4,0-2-4], [6:0-5-12,0-2-8], [8:0-3-0,0-2-4], [10:0-3-0,0-1-8], [14:0-2-12,0-3-0], [16:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.22	12-23	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.59	12-23	>820	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.19	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.19	15	>999	240	Weight: 173 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
3-16: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-120(LC 10)
Max Uplift 2=-206(LC 12), 10=-206(LC 12)
Max Grav 2=1843(LC 1), 10=1843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3862/532, 3-4=-3022/505, 4-5=-2901/540, 5-6=-2901/540, 6-7=-3065/547, 7-8=-3206/555, 8-9=-3502/559, 9-10=-3932/653
BOT CHORD 2-17=-406/3493, 16-17=-408/3488, 15-16=-257/2696, 14-15=-288/2793, 13-14=-438/3409, 12-13=-439/3406, 10-12=-538/3598
WEBS 3-17=0/311, 3-16=-880/167, 4-16=0/558, 4-15=-75/454, 5-15=-333/113, 6-15=-32/314, 6-14=-80/709, 7-14=-844/205, 7-12=-653/185, 8-12=-99/1069, 9-12=-472/169

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 14-6-0, Exterior(2R) 14-6-0 to 18-6-0, Interior(1) 18-6-0 to 24-0-0, Exterior(2R) 24-0-0 to 28-0-0, Interior(1) 28-0-0 to 30-0-0, Exterior(2R) 30-0-0 to 34-0-0, Interior(1) 34-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil) CERTIFICATE NO. 74609 DUSTIN REINMUTH Date Signed ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

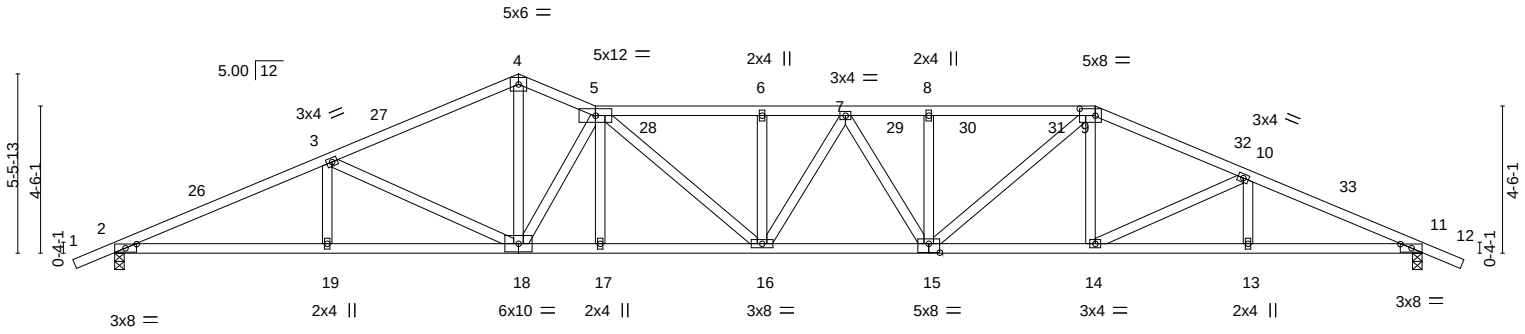
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A11P	Roof Special	1	1	R73704666
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:20 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-ZrTi5NxiZqryWhlPYex8bNPf3MEm8_s?_7isAVyE46v

1-2-0	6-6-0	12-4-4	14-8-8	19-9-11	22-4-5	24-10-14	30-0-0	34-8-2	40-0-0	41-2-0
1-2-0	6-6-0	5-10-4	2-4-4	5-1-3	2-6-10	2-6-10	5-1-2	4-8-2	5-3-14	1-2-0

Scale = 1:70.5



6-6-0	12-4-4	14-8-8	19-9-11	24-10-14	30-0-0	34-8-2	40-0-0
6-6-0	5-10-4	2-4-4	5-1-3	5-1-3	5-1-2	4-8-2	5-3-14

Plate Offsets (X,Y)-- [2:0-4-2,0-1-8], [9:0-5-12,0-2-8], [11:0-4-2,0-1-8], [15:0-4-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.25	16	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.69	16-17	>694	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.18	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.25	16	>999	240	Weight: 169 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 HF/SPF Stud/Std *Except*
4-18: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-103(LC 10)
Max Uplift 2=-206(LC 12), 11=-206(LC 12)
Max Grav 2=1843(LC 1), 11=1843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3928/510, 3-4=-3248/471, 4-5=-3177/492, 5-6=-4203/595, 6-7=-4203/595, 7-8=-3942/575, 8-9=-3942/575, 9-10=-3475/495, 10-11=-3982/503
BOT CHORD 2-19=-395/3563, 18-19=-395/3563, 17-18=-392/3881, 16-17=-390/3883, 15-16=-414/4096, 14-15=-303/3161, 13-14=-393/3622, 11-13=-393/3622
WEBS 3-19=0/257, 3-18=-726/141, 4-18=-233/2121, 5-18=-1965/255, 5-16=-50/506, 6-16=-329/100, 7-15=-296/36, 8-15=-301/121, 9-15=-127/1014, 9-14=0/402, 10-14=-526/122

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 12-4-4, Exterior(2E) 12-4-4 to 14-8-8, Interior(1) 14-8-8 to 30-0-0, Exterior(2R) 30-0-0 to 34-0-0, Interior(1) 34-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
74609
DUSTIN
REINMUTH
Date Signed
ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A12	Hip	1	1	R73704667
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:23 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-_Q9rjO_aslEXN9U_DmVrD?068ZCSLSJRg5wWmqyE46s

1-2-0	6-3-14	12-0-0	20-0-0	28-0-0	33-8-2	40-0-0	41-2-0
1-2-0	6-3-14	5-8-2	8-0-0	8-0-0	5-8-2	6-3-14	1-2-0

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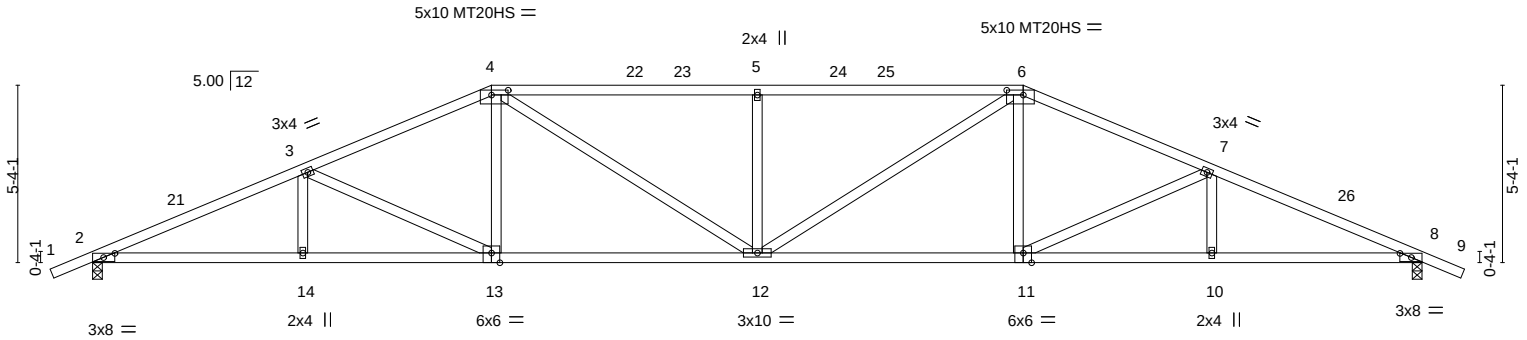

6-3-14	12-0-0	20-0-0	28-0-0	33-8-2	40-0-0
6-3-14	5-8-2	8-0-0	8-0-0	5-8-2	6-3-14

Plate Offsets (X,Y)-- [2:0-4-2,0-1-8], [4:0-6-0,0-1-12], [6:0-6-0,0-1-12], [8:0-4-2,0-1-8], [11:0-3-0,Edge], [13:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.22	12	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.63	11-12	>757	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.19	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.22	12	>999	240	Weight: 154 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-101(LC 10)
Max Uplift 2=-206(LC 12), 8=-206(LC 12)
Max Grav 2=1843(LC 1), 8=1843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3928/482, 3-4=-3297/437, 4-5=-3582/501, 5-6=-3582/501, 6-7=-3297/437, 7-8=-3928/482
BOT CHORD 2-14=-363/3565, 13-14=-363/3565, 12-13=-239/2973, 11-12=-246/2973, 10-11=-375/3565, 8-10=-375/3565
WEBS 3-13=-655/143, 4-13=0/519, 4-12=-87/832, 5-12=-607/190, 6-12=-87/832, 6-11=0/519, 7-11=-655/143

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 12-0-0, Exterior(2R) 12-0-0 to 17-7-14, Interior(1) 17-7-14 to 28-0-0, Exterior(2R) 28-0-0 to 33-8-2, Interior(1) 33-8-2 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
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.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A12C	Roof Special	1	1	R73704668
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:26 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-O?qzLQ0S8gc5EcCZuv2YreegBnD6YjotN39AN8yE46p

1-2-0	5-11-3	11-2-10	16-6-0	22-0-0	26-6-0	28-0-0	33-8-2	40-0-0	41-2-0
1-2-0	5-11-3	5-3-6	5-3-6	5-6-0	4-6-0	1-6-0	5-8-2	6-3-14	1-2-0

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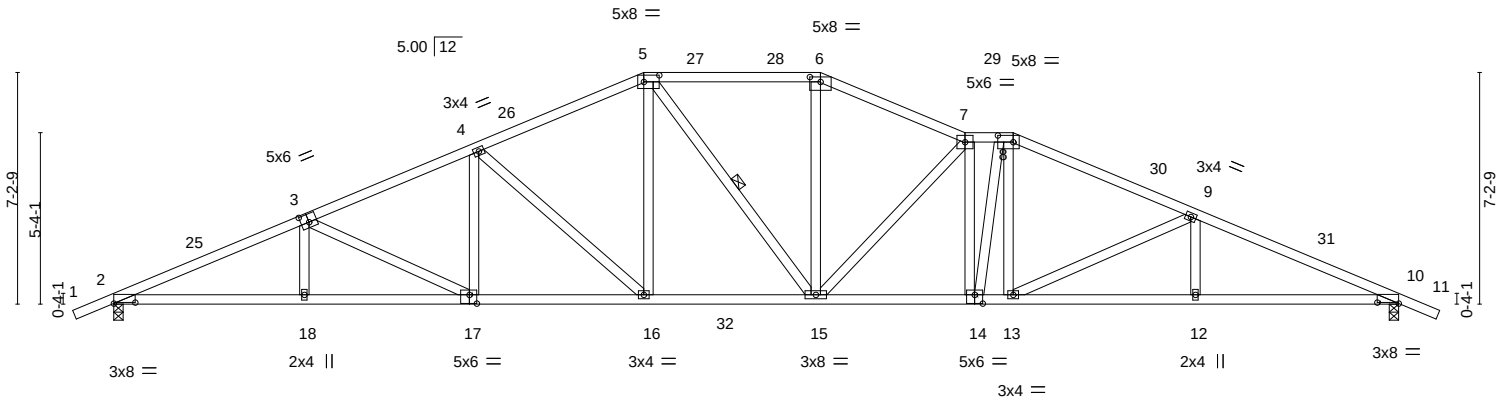


5-11-3	11-2-10	16-6-0	22-0-0	26-6-0	28-0-0	33-8-2	40-0-0
5-11-3	5-3-6	5-3-6	5-6-0	4-6-0	1-6-0	5-8-2	6-3-14

Plate Offsets (X,Y)-- [2:0-8-0,0-0-6], [3:0-3-0,0-3-0], [5:0-5-12,0-2-8], [6:0-4-0,0-1-13], [8:0-5-12,0-2-8], [10:0-8-0,0-0-6], [14:0-3-0,0-3-4], [17:0-2-12,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.25	15-16	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.58	15-16	>828	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.21	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.18	15	>999	240	Weight: 179 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-15

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=135(LC 11)
Max Uplift 2=-206(LC 12), 10=-206(LC 12)
Max Grav 2=2032(LC 17), 10=2029(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4354/542, 3-4=-3716/530, 4-5=-3030/512, 5-6=-2804/529, 6-7=-3049/534, 7-8=-3395/578, 8-9=-3581/566, 9-10=-4332/604
BOT CHORD 2-18=-414/4073, 17-18=-416/4066, 16-17=-337/3441, 15-16=-229/2797, 14-15=-389/3426, 13-14=-365/3252, 12-13=-489/3951, 10-12=-489/3951
WEBS 3-17=-683/94, 4-17=0/493, 4-16=-875/144, 5-16=-29/794, 6-15=-51/830, 7-15=-992/203, 7-14=-573/127, 8-14=-97/625, 8-13=-15/509, 9-13=-810/137

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 16-6-0, Exterior(2R) 16-6-0 to 20-6-0, Interior(1) 20-6-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-0-0, Interior(1) 26-0-0 to 28-0-0, Exterior(2R) 28-0-0 to 32-0-0, Interior(1) 32-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
74609
DUSTIN
REINMUTH
Date Signed
ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

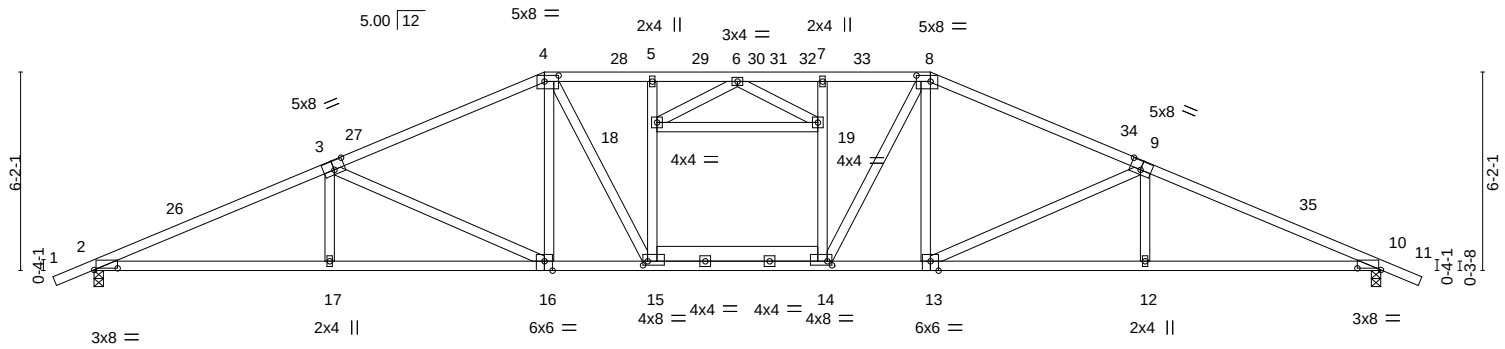
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A13M	ROOF TRUSS	1	1	R73704669
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:29 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-oaW6zS2LRb_g54x8Z1cFTGG9h_CMl9cJ31Nq_TyE46m

1-2-0	7-3-14	14-0-0	17-4-4	20-0-0	22-7-12	26-0-0	32-8-2	40-0-0	41-2-0
1-2-0	7-3-14	6-8-2	3-4-4	2-7-12	2-7-12	3-4-4	6-8-2	7-3-14	1-2-0

Scale = 1:71.6



7-3-14	14-0-0	17-4-4	22-7-12	26-0-0	32-8-2	40-0-0
7-3-14	6-8-2	3-4-4	5-3-8	3-4-4	6-8-2	7-3-14

Plate Offsets (X,Y)-- [2:0-8-12,0-0-10], [3:0-4-0,0-3-4], [4:0-5-4,0-2-4], [8:0-5-4,0-2-4], [9:0-4-0,0-3-4], [10:0-8-12,0-0-10], [13:0-3-0,Edge], [14:0-1-12,0-1-8], [15:0-1-12,0-1-8], [16:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.24	14-15	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.59	14-15	>812	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.21	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.18	15	>999	240	Weight: 182 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E *Except*
14-15: 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
3-16,9-13: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-116(LC 10)
Max Uplift 2=-131(LC 12), 10=-131(LC 12)
Max Grav 2=2133(LC 17), 10=2133(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4518/286, 3-4=-3622/239, 4-5=-3535/229, 5-6=-3524/229, 6-7=-3524/229, 7-8=-3535/229, 8-9=-3622/239, 9-10=-4519/286
BOT CHORD 2-17=-174/4203, 16-17=-176/4196, 15-16=-28/3324, 14-15=-13/3555, 13-14=-40/3262, 12-13=-188/4109, 10-12=-186/4117
WEBS 3-17=0/298, 3-16=-965/164, 4-16=-2/621, 4-15=0/664, 15-18=-422/21, 5-18=-252/36, 14-19=-422/21, 7-19=-252/36, 8-14=0/664, 8-13=-2/621, 9-13=-965/164, 9-12=0/298, 6-18=-333/0, 6-19=-333/0

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 14-0-0, Exterior(2R) 14-0-0 to 19-7-14, Interior(1) 19-7-14 to 26-0-0, Exterior(2R) 26-0-0 to 31-7-14, Interior(1) 31-7-14 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 150.0lb AC unit load placed on the top chord, 20-0-0 from left end, supported at two points, 2-6-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
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.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

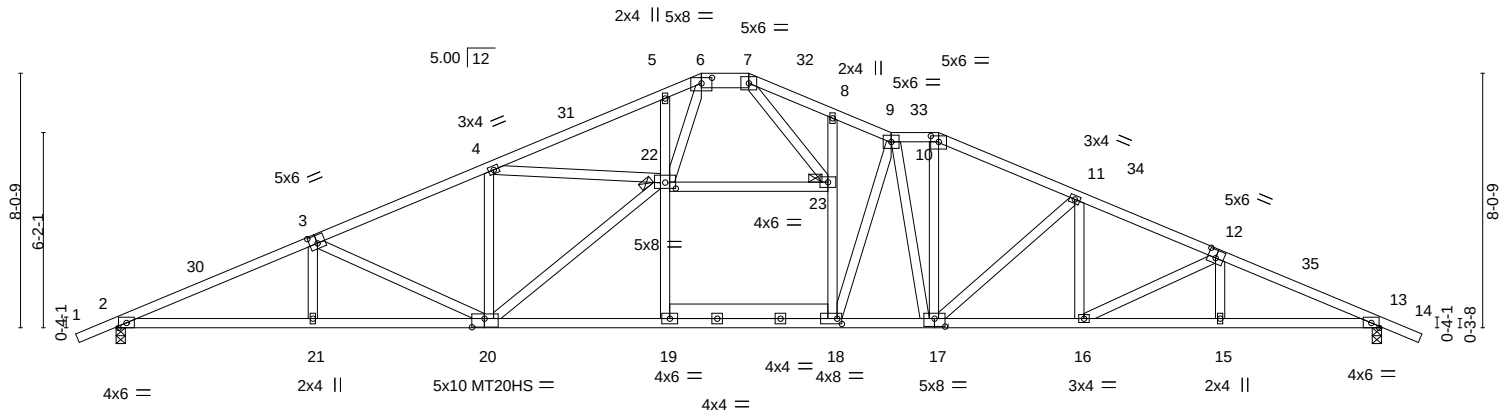
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A13MC	ROOF TRUSS	1	1	R73704670
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:32 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-D9CEcT5DkWMFyXgjF99y5uuhkBJLyR2ml_cVboyE46j

1-2-0	6-2-10	11-9-7	17-4-4	18-6-0	20-0-0	22-7-12	24-6-0	26-0-0	30-5-6	34-10-13	40-0-0	41-2-0
1-2-0	6-2-10	5-6-13	5-6-13	1-1-12	1-6-0	2-7-12	1-10-4	1-6-0	4-5-6	4-5-6	5-1-3	1-2-0

Scale = 1:72.8



6-2-10	11-9-7	17-4-4	18-6-0	20-0-0	22-7-12	24-6-0	26-0-0	30-5-6	34-10-13	40-0-0
6-2-10	5-6-13	5-6-13	1-1-12	1-6-0	2-7-12	1-10-4	1-6-0	4-5-6	4-5-6	5-1-3

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [6:0-4-0,0-2-2], [10:0-3-0,0-2-4], [12:0-3-0,0-3-0], [17:0-4-0,0-3-0], [18:0-1-12,0-2-0], [20:0-4-12,0-3-4], [22:0-4-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.22	18	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.53	18	>903	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.17	13	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.17	18	>999	240	Weight: 206 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E *Except*
	3-6,10-12: 2x4 SPF 2100F 1.8E, 6-7: 2x6 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 2100F 1.8E *Except*
	18-19: 2x6 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
JOINTS	1 Brace at Jt(s): 22, 23

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=150(LC 11)
Max Uplift 2=-131(LC 12), 13=-132(LC 12)
Max Grav 2=2124(LC 17), 13=2124(LC 18)

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

TOP CHORD	2-3=-4581/307, 3-4=-3902/290, 4-5=-2803/238, 5-6=-2771/317, 6-7=-2195/208, 7-8=-3433/368, 8-9=-3376/295, 9-10=-3265/317, 10-11=-3565/310, 11-12=-4125/337, 12-13=-4648/344
BOT CHORD	2-21=-193/4278, 20-21=-195/4271, 19-20=-36/3129, 18-19=-36/3131, 17-18=-84/3365, 16-17=-192/3761, 15-16=-258/4231, 13-15=-256/4237
WEBS	3-20=-719/104, 4-20=-29/257, 4-22=-1067/178, 19-22=0/302, 5-22=-344/186, 22-23=-984/147, 18-23=-99/917, 8-23=-319/84, 9-17=-498/3, 10-17=-20/1054, 11-17=-735/130, 11-16=0/410, 12-16=-543/78, 9-18=-828/163, 6-22=-210/1016, 7-23=-240/1600, 20-22=-124/681

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 18-6-0, Exterior(2E) 18-6-0 to 20-0-0, Exterior(2R) 20-0-0 to 24-0-0, Interior(1) 24-0-0 to 26-0-0, Exterior(2R) 26-0-0 to 30-0-0, Interior(1) 30-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 150.0lb AC unit load placed on the top chord, 20-0-0 from left end, supported at two points, 2-6-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

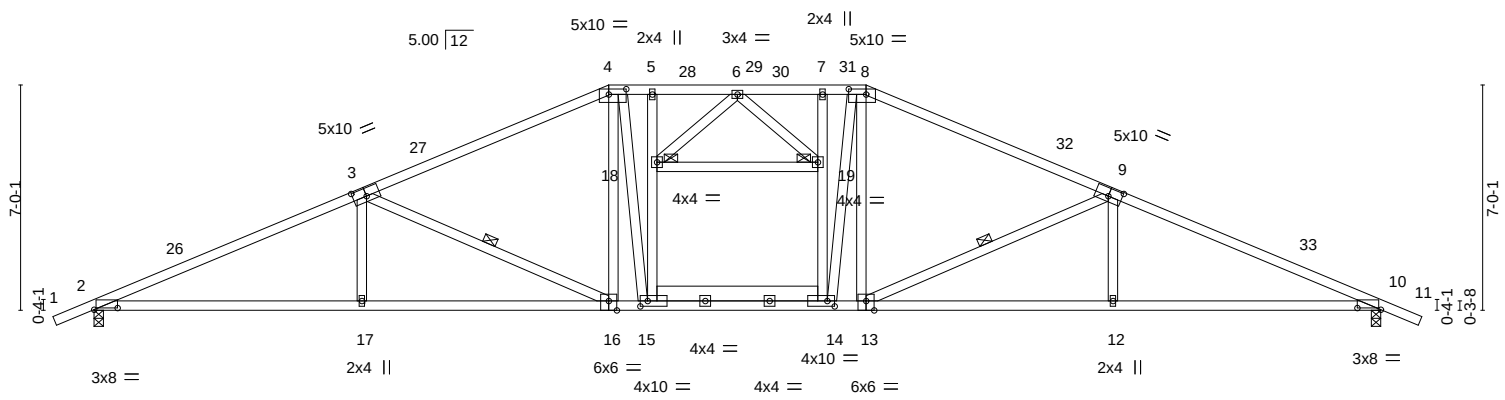
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A14M	ROOF TRUSS	1	1	R73704671
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:35 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-djtNEV761Rkqp?OIwlifiXW80PEf9uaCRyq9B7yE46g

1-2-0 8-3-14 16-0-0 17-4-4 20-0-0 22-7-12 24-0-0 31-8-2 40-0-0 41-2-0
1-2-0 8-3-14 7-8-2 1-4-4 2-7-12 2-7-12 1-4-4 7-8-2 8-3-14 1-2-0

Scale = 1:71.6



8-3-14 16-0-0 17-4-4 22-7-12 24-0-0 31-8-2 40-0-0
8-3-14 7-8-2 1-4-4 5-3-8 1-4-4 7-8-2 8-3-14

Plate Offsets (X,Y)-- [2:0-8-12,0-0-10], [3:0-5-0,0-3-0], [4:0-6-8,0-2-0], [8:0-6-8,0-2-0], [9:0-5-0,0-3-0], [10:0-8-12,0-0-10], [13:0-3-0,Edge], [14:0-2-12,0-2-0], [15:0-2-12,0-2-0], [16:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.25	12-13	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.60	12-13	>795	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.20	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.17	16	>999	240	Weight: 192 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E *Except*
14-15: 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-16, 9-13
JOINTS 1 Brace at Jt(s): 18, 19

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=131(LC 11)
Max Uplift 2=-131(LC 12), 10=-131(LC 12)
Max Grav 2=2135(LC 17), 10=2135(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4445/282, 3-4=-3411/230, 4-5=-3096/239, 5-6=-3093/240, 6-7=-3093/240, 7-8=-3096/239, 8-9=-3411/230, 9-10=-4445/282
BOT CHORD 2-17=-162/4141, 16-17=-164/4133, 15-16=0/3108, 14-15=0/3126, 13-14=-10/3055, 12-13=-176/4035, 10-12=-174/4043
WEBS 3-17=0/346, 3-16=-1131/183, 4-16=0/742, 4-15=-71/503, 15-18=-344/0, 14-19=-344/0, 8-14=-71/503, 8-13=0/742, 9-13=-1132/183, 9-12=0/346, 6-18=-301/1, 6-19=-301/1

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 16-0-0, Exterior(2R) 16-0-0 to 21-7-14, Interior(1) 21-7-14 to 24-0-0, Exterior(2R) 24-0-0 to 29-7-14, Interior(1) 29-7-14 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 150.0lb AC unit load placed on the top chord, 20-0-0 from left end, supported at two points, 2-6-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
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.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A14MC	ROOF TRUSS	1	1	R73704672
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:38 2022 Page 1
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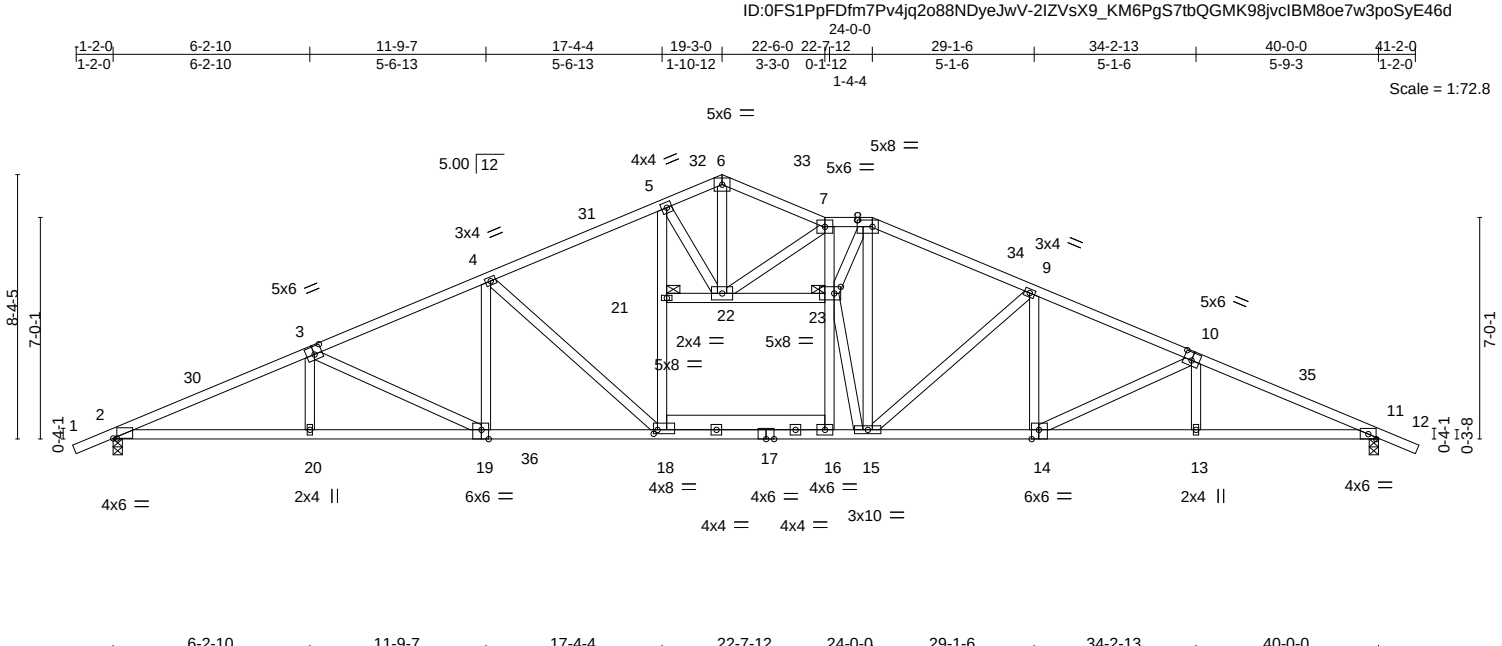


Plate Offsets (X,Y)-- [2:0-1-6,0-0-0], [3:0-3-0,0-3-0], [8:0-5-12,0-2-8], [10:0-3-0,0-3-0], [14:0-2-12,Edge], [18:0-1-8,0-1-8], [19:0-2-12,Edge], [23:0-2-8,0-2-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.26	18-19	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.61	16-18	>782	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.21	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.18	16	>999	240	Weight: 200 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E *Except* 16-18: 2x6 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std *Except* 4-18: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
JOINTS	1 Brace at Jt(s): 21, 23

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-155(LC 10)
Max Uplift 2=-131(LC 12), 11=-131(LC 12)
Max Grav 2=2162(LC 17), 11=2147(LC 18)

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

TOP CHORD	2-3=-4664/267, 3-4=-4001/249, 4-5=-3289/227, 5-6=-2620/236, 6-7=-2618/202, 7-8=-3481/288, 8-9=-3394/243, 9-10=-4060/271, 10-11=-4656/283
BOT CHORD	2-20=-170/4372, 19-20=-172/4365, 18-19=-80/3703, 16-18=0/3015, 15-16=0/3015, 14-15=-117/3681, 13-14=-196/4243, 11-13=-194/4250
WEBS	3-19=-722/104, 4-19=0/529, 4-18=-923/132, 18-21=-17/922, 5-21=-17/922, 22-23=-76/664, 6-22=-201/1732, 7-23=-324/0, 8-15=-125/500, 9-15=-858/144, 9-14=0/477, 10-14=-644/94, 7-22=-1443/172, 5-22=-1130/157, 8-23=-73/956, 15-23=-172/783

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 19-3-0, Exterior(2E) 19-3-0 to 22-6-0, Interior(1) 22-6-0 to 24-0-0, Exterior(2R) 24-0-0 to 28-0-0, Interior(1) 28-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 150.0lb AC unit load placed on the top chord, 20-0-0 from left end, supported at two points, 2-6-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

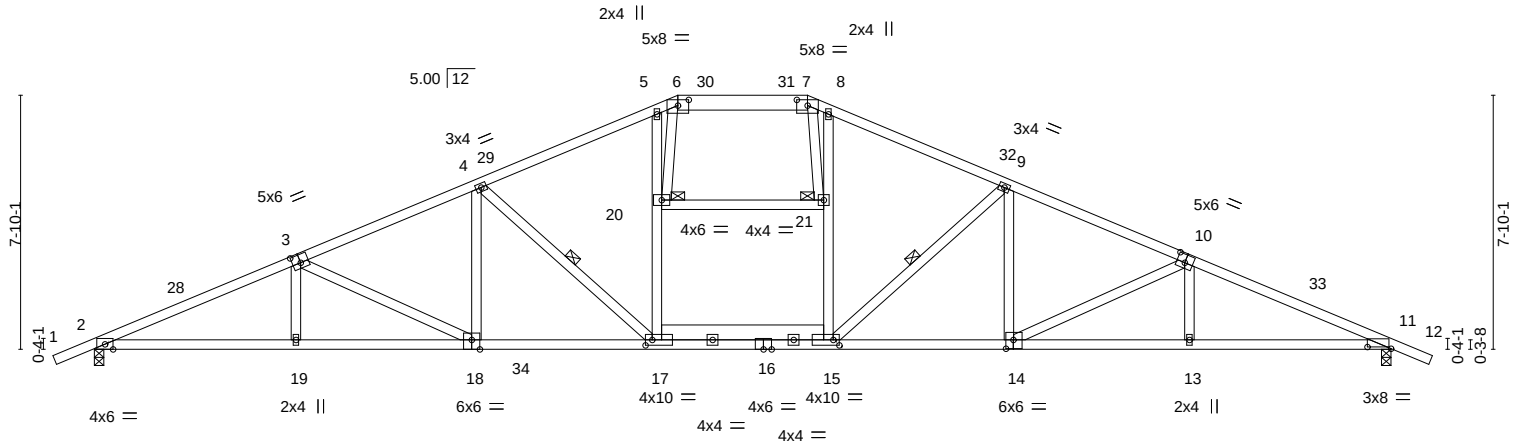
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A15M	ROOF TRUSS	1	1	R73704673
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 12:13:58 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-6ADEXfMUmH4NY2QxbvNj_NQbrUBOd41oJtyqBJyE?AN

1-2-0	6-2-10	11-9-7	17-4-4	18-0-0	22-0-0	22-7-12	28-2-9	33-9-6	40-0-0	41-2-0
1-2-0	6-2-10	5-6-13	5-6-13	0-7-12	4-0-0	0-7-12	5-6-13	5-6-13	6-2-10	1-2-0

Scale = 1:71.1



6-2-10	11-9-7	17-4-4	22-7-12	28-2-9	33-9-6	40-0-0
6-2-10	5-6-13	5-6-13	5-3-8	5-6-13	5-6-13	6-2-10

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [6:0-4-0,0-2-2], [7:0-4-0,0-2-2], [10:0-3-0,0-3-0], [11:0-8-12,0-0-10], [14:0-2-12,0-3-4], [15:0-2-4,0-2-0], [17:0-2-8,0-2-0], [18:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.33	17-18	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.67	17-18	>720	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.21	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.18	15-17	>999	240	Weight: 185 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E *Except*
	6-7: 2x6 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E *Except*
	15-17: 2x6 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD	Sheathed.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-17, 9-15
JOINTS	1 Brace at Jt(s): 20, 21

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-146(LC 10)
Max Uplift 2=-131(LC 12), 11=-131(LC 12)
Max Grav 2=2167(LC 17), 11=2151(LC 18)

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

TOP CHORD	2-3=-4671/265, 3-4=-4006/250, 4-5=-3281/220, 5-6=-3215/284, 6-7=-2833/202, 7-8=-3168/284, 8-9=-3266/220, 9-10=-3958/250, 10-11=-4636/265
BOT CHORD	2-19=-162/4371, 18-19=-164/4364, 17-18=-75/3714, 15-17=0/2922, 14-15=-87/3580, 13-14=-176/4222, 11-13=-174/4229
WEBS	3-18=-708/107, 4-18=0/548, 4-17=-963/151, 17-20=-24/885, 5-20=-340/203, 15-21=-24/828, 8-21=-341/203, 9-14=0/515, 10-14=-723/107, 9-15=-919/151, 6-20=-228/1182, 7-21=-228/1051

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 18-0-0, Exterior(2E) 18-0-0 to 22-0-0 , Exterior(2R) 22-0-0 to 27-7-14, Interior(1) 27-7-14 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 150.0lb AC unit load placed on the top chord, 20-0-0 from left end, supported at two points, 2-6-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be User Defined crushing capacity of 425 psi.
8) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	A15MC	ROOF TRUSS	1	1	R73704674
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:36:43 2022 Page 1

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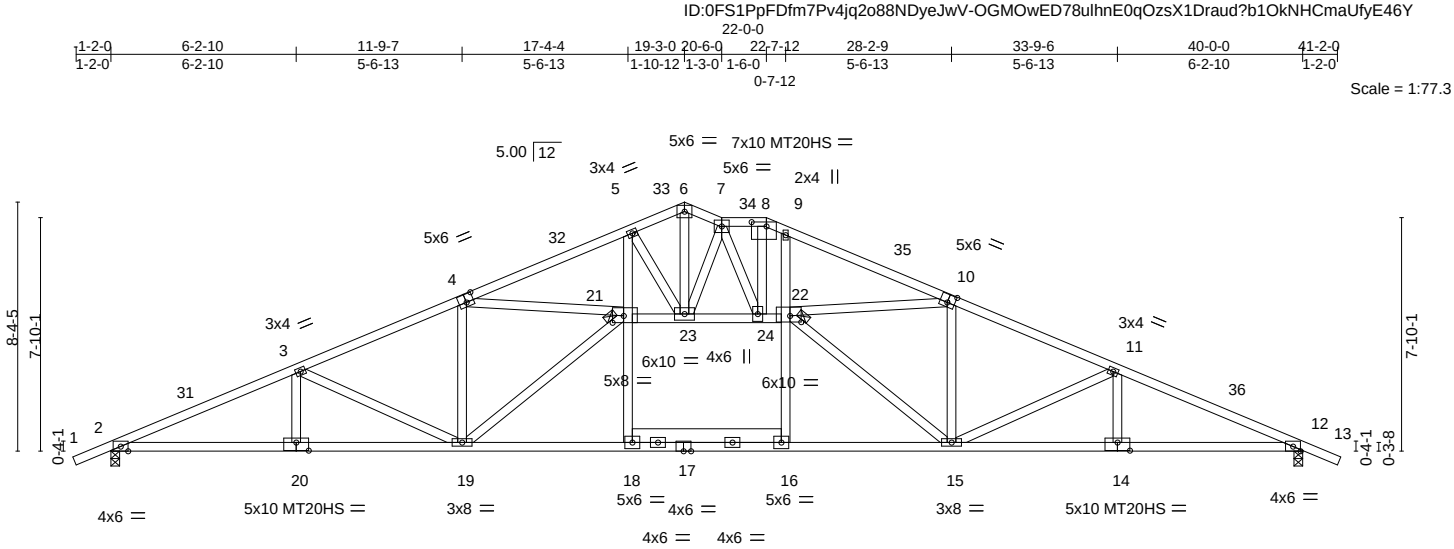


6-2-10	11-9-7	17-4-4	22-7-12	28-2-9	33-9-6	40-0-0
6-2-10	5-6-13	5-6-13	5-3-8	5-6-13	5-6-13	6-2-10

Plate Offsets (X,Y)-- [4:0-3-0,0-3-4], [8:0-6-0,0-1-12], [10:0-3-0,0-3-4], [14:0-5-0,0-3-4], [20:0-5-0,0-3-4], [21:0-4-8,0-2-12], [22:0-4-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.23	16-18	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.57	16-18	>848	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.21	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.17	16	>999	240	Weight: 206 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E *Except* 16-18: 2x6 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
JOINTS	1 Brace at Jt(s): 21, 22

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=-155(LC 10)
Max Uplift 2=-131(LC 12), 12=-131(LC 12)
Max Grav 2=2123(LC 17), 12=2123(LC 18)

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

TOP CHORD 2-3=-4571/271, 3-4=-3886/251, 4-5=-2472/126, 5-6=-2035/157, 6-7=-1971/129, 7-8=-2140/128, 8-9=-2211/144, 9-10=-2377/102, 10-11=-3891/255, 11-12=-4569/274

BOT CHORD 2-20=-175/4287, 19-20=-175/4287, 18-19=-46/3320, 16-18=-48/3320, 15-16=-46/3320, 14-15=-170/4169, 12-14=-170/4169

WEBS 18-21=0/284, 5-21=0/505, 16-22=0/266, 21-23=-1262/245, 23-24=-1230/236, 22-24=-1269/219, 4-19=0/387, 3-19=-746/105, 10-15=0/344, 11-15=-736/104, 4-21=-1363/245, 10-22=-1435/236, 19-21=-56/467, 15-22=-46/375, 6-23=-138/1281, 5-23=-703/108, 7-23=-771/69, 8-24=-65/417

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; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-9-5, Interior(1) 2-9-5 to 19-3-0, Exterior(2E) 19-3-0 to 20-6-0, Interior(1) 20-6-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-0-0, Interior(1) 26-0-0 to 41-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 150.0lb AC unit load placed on the top chord, 20-0-0 from left end, supported at two points, 2-6-0 apart.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

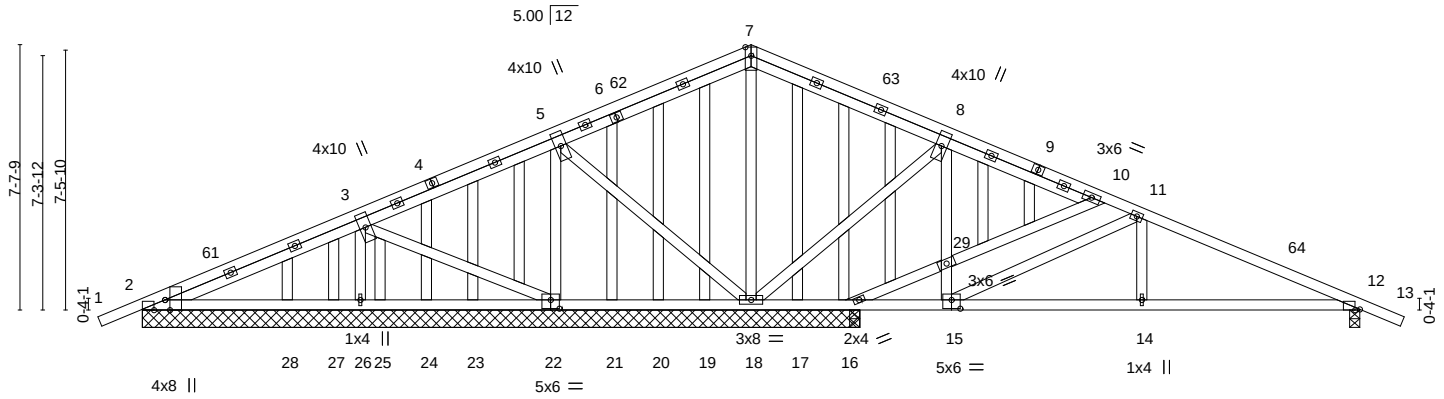
Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	B1E	GABLE	1	1	R73704675
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:43 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-ep_4Vlym0KJAzSbMvaxcTtLsKpb05Z7C4XIlaByE45c

1-2-0	6-3-3	11-10-10	17-6-0	23-1-6	28-8-13	35-0-0	36-2-0
1-2-0	6-3-3	5-7-6	5-7-6	5-7-6	5-7-6	6-3-3	1-2-0

Scale = 1:66.2

MT20 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.



6-3-3	11-10-10	17-6-0	20-7-8	23-1-6	28-8-13	35-0-0
6-3-3	5-7-6	5-7-6	3-1-8	2-5-14	5-7-6	6-3-3

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-3-13,Edge], [12:0-1-10,Edge], [15:0-3-0,0-3-0], [22:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.03	14-60	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.10	14-60	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	-0.01	16	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.04	14-60	>999	240	Weight: 240 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. All bearings 20-7-8 except (jt=length) 12=0-3-8.
(lb) - Max Horz 2=-132(LC 32)
Max Uplift All uplift 100 lb or less at joint(s) 16, 27, 17 except 2=-231(LC 35), 22=-171(LC 35), 18=-454(LC 36), 26=-333(LC 35), 12=-328(LC 36)
Max Grav All reactions 250 lb or less at joint(s) 16, 16, 19, 20, 21, 23, 24, 25, 27, 28, 17, 2 except 2=290(LC 44), 22=279(LC 32), 18=1479(LC 1), 26=487(LC 32), 12=645(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-370/494, 3-5=-415/626, 5-7=-360/766, 7-8=-39/618, 8-10=-324/341, 10-11=-510/416, 11-12=-1158/633
BOT CHORD 2-28=-459/389, 27-28=-360/279, 26-27=-306/225, 25-26=-276/195, 24-25=-253/172, 21-22=-453/295, 20-21=-383/224, 19-20=-329/171, 18-19=-289/127, 14-15=-288/827, 12-14=-512/1029
WEBS 7-18=-789/213, 8-18=-688/142, 15-29=0/369, 8-29=0/379, 11-15=-559/111, 11-14=0/272, 5-18=-511/333, 5-22=-320/303, 3-22=-444/346, 3-26=-440/330

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; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-3-5, Interior(1) 2-3-5 to 17-6-0, Exterior(2R) 17-6-0 to 21-0-0, Interior(1) 21-0-0 to 36-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27 except (jt=lb) 2=231, 26=333, 2=231.
9) n/a
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.

Continued on page 2

Registered Professional Engineer (Civil) CERTIFICATE NO. 74609 DUSTIN REINMUTH Date Signed ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

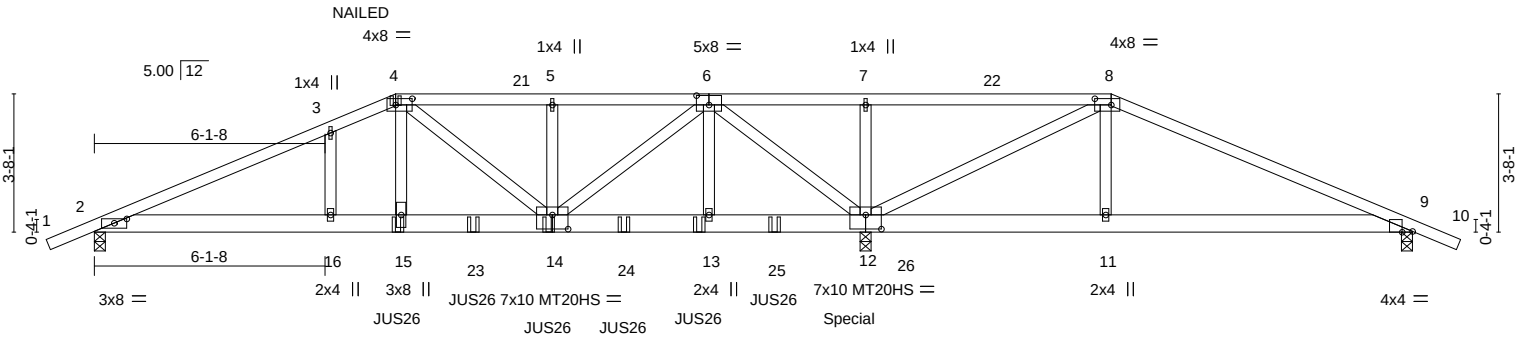
11) This truss has been designed for a total drag load of 1400 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 35-0-0 for 40.0 plf.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	B1G	Hip Girder	1	2	R73704676
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:48 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-_mnzZS0uqtxT4DUKh7WnAw2iSqFqmtrxDp0WGOyE45X

1-2-0	6-1-8	8-0-0	12-1-15	16-3-13	20-5-12	27-0-0	35-0-0	36-2-0
1-2-0	6-1-8	1-10-8	4-1-15	4-1-15	4-1-15	6-6-4	8-0-0	1-2-0

Scale = 1:61.2



6-1-8	8-0-0	12-1-15	16-3-13	20-5-12	27-0-0	35-0-0
6-1-8	1-10-8	4-1-15	4-1-15	4-1-15	6-6-4	8-0-0

Plate Offsets (X,Y)-- [2:0-4-0,0-1-6], [4:0-5-4,0-2-0], [6:0-4-0,0-3-0], [8:0-5-4,0-2-0], [9:0-3-5,Edge], [12:0-5-0,0-4-8], [14:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.08	16-18	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.21	16-18	>999	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.09	16-18	>999	240	Weight: 303 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 11-12,9-11.

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 9=0-3-8
Max Horz 2=67(LC 26)
Max Uplift 2=-296(LC 8), 12=-587(LC 8), 9=-305(LC 27)
Max Grav 2=1898(LC 19), 12=4137(LC 1), 9=535(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3766/547, 3-4=-3679/587, 4-5=-2713/464, 5-6=-2713/464, 6-7=-216/1921, 7-8=-216/1921, 8-9=-498/635
BOT CHORD 2-16=-420/3419, 15-16=-420/3419, 14-15=-431/3493, 13-14=-129/1062, 12-13=-129/1062, 11-12=-510/386, 9-11=-516/376
WEBS 4-15=-254/1680, 4-14=-1026/127, 5-14=-270/118, 6-14=-298/2114, 6-13=-100/797, 6-12=-3767/570, 7-12=-441/122, 8-12=-1744/191, 8-11=0/326

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 12, and 9. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) 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 8-0-12 from the left end to 18-0-12 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

Continued on page 2

Registered Professional Engineer (Civil)
CERTIFICATE NO.
74609
DUSTIN
REINMUTH
Date Signed
ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 774 lb down and 136 lb up at 6-0-12, and 326 lb down and 74 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-68, 4-8=-68, 8-10=-68, 2-9=-20

Concentrated Loads (lb)

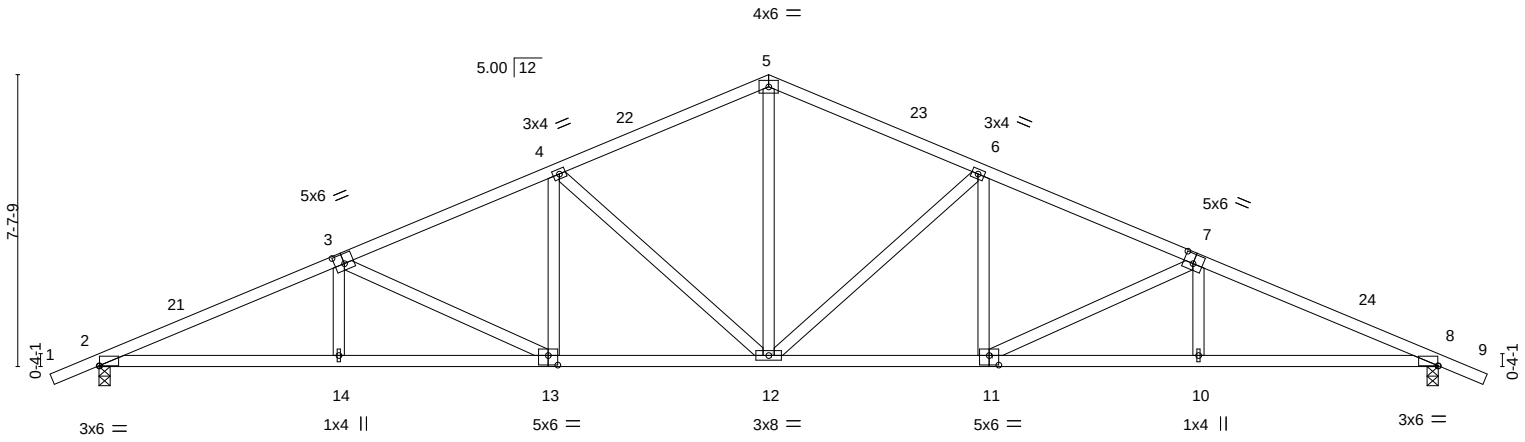
Vert: 4=-19(F) 15=-319(F) 14=-319(F) 13=-319(F) 16=-774 23=-319(F) 24=-319(F) 25=-319(F) 26=-326(F)

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	B2	Common	9	1	R73704677
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:50 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-x9vjz819MUBBJXdipYZFFL71sew5Ei1Eh7VdKHyE45V

1-2-0	6-3-3	11-10-10	17-6-0	23-1-6	28-8-13	35-0-0	36-2-0
1-2-0	6-3-3	5-7-6	5-7-6	5-7-6	5-7-6	6-3-3	1-2-0

Scale = 1:60.2



6-3-3	11-10-10	17-6-0	23-1-6	28-8-13	35-0-0
6-3-3	5-7-6	5-7-6	5-7-6	5-7-6	6-3-3

Plate Offsets (X,Y)-- [2:0-0-2,0-0-0], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [8:0-0-2,0-0-0], [11:0-3-0,0-3-0], [13:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.14	12	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.40	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.14	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.14	12	>999	240	Weight: 141 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=135(LC 11)
Max Uplift 2=-186(LC 12), 8=-186(LC 12)
Max Grav 2=1623(LC 1), 8=1623(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3373/377, 3-4=-2744/363, 4-5=-2090/344, 5-6=-2090/344, 6-7=-2744/363, 7-8=-3373/377
BOT CHORD 2-14=-266/3052, 13-14=-268/3047, 12-13=-180/2455, 11-12=-187/2455, 10-11=-275/3047, 8-10=-273/3052
WEBS 5-12=-109/1179, 6-12=-804/146, 6-11=0/469, 7-11=-653/101, 4-12=-804/146, 4-13=0/469, 3-13=-653/101

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; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-3-5, Interior(1) 2-3-5 to 17-6-0, Exterior(2R) 17-6-0 to 21-0-0, Interior(1) 21-0-0 to 36-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

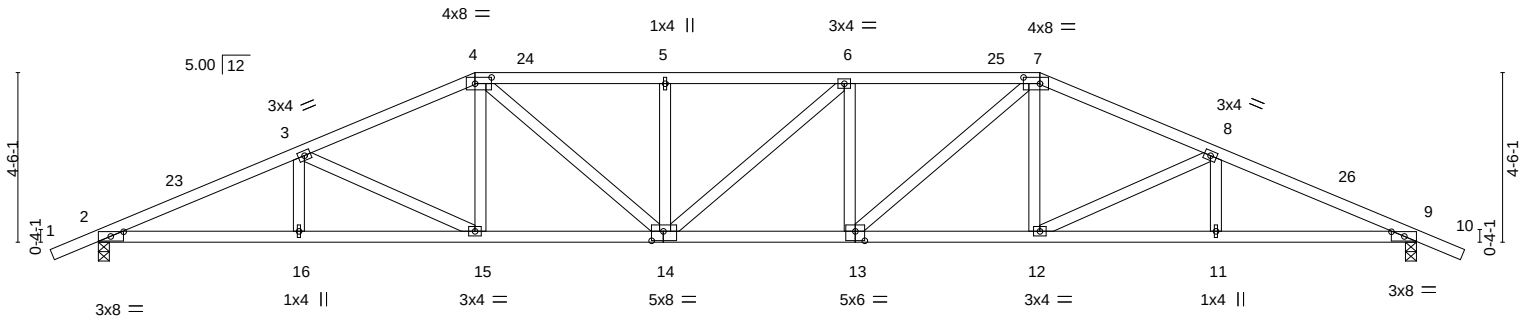
Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	B2B	Hip	1	1	R73704678
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:52 2022 Page 1

ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-tY1UOq3Pu5RvYqn5wzbjKmCOjRcCikOX8R_kP9yE45T

1-2-0	5-3-14	10-0-0	15-0-9	19-11-7	25-0-0	29-8-2	35-0-0	36-2-0
1-2-0	5-3-14	4-8-2	5-0-9	4-10-13	5-0-9	4-8-2	5-3-14	1-2-0

Scale = 1:61.2



5-3-14	10-0-0	15-0-9	19-11-7	25-0-0	29-8-2	35-0-0
5-3-14	4-8-2	5-0-9	4-10-13	5-0-9	4-8-2	5-3-14

Plate Offsets (X,Y)-- [2:0-4-2,0-1-8], [4:0-5-4,0-2-0], [7:0-5-4,0-2-0], [9:0-4-2,0-1-8], [13:0-3-0,0-3-0], [14:0-3-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.17	13-14	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.48	13-14	>870	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.15	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.17	13-14	>999	240	Weight: 141 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-81(LC 10)
Max Uplift 2=-186(LC 12), 9=-186(LC 12)
Max Grav 2=1623(LC 1), 9=1623(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3428/413, 3-4=-2906/382, 4-5=-3156/435, 5-6=-3160/437, 6-7=-3148/434, 7-8=-2906/382, 8-9=-3428/413
BOT CHORD 2-16=-307/3112, 15-16=-307/3112, 14-15=-211/2635, 13-14=-271/3160, 12-13=-218/2635, 11-12=-320/3112, 9-11=-320/3112
WEBS 3-15=-541/112, 4-15=0/400, 4-14=-84/759, 5-14=-350/120, 6-13=-395/114, 7-13=-83/754, 7-12=0/397, 8-12=-542/111

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; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-3-5, Interior(1) 2-3-5 to 10-0-0, Exterior(2R) 10-0-0 to 15-0-9, Interior(1) 15-0-9 to 25-0-0, Exterior(2R) 25-0-0 to 29-8-2, Interior(1) 29-8-2 to 36-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

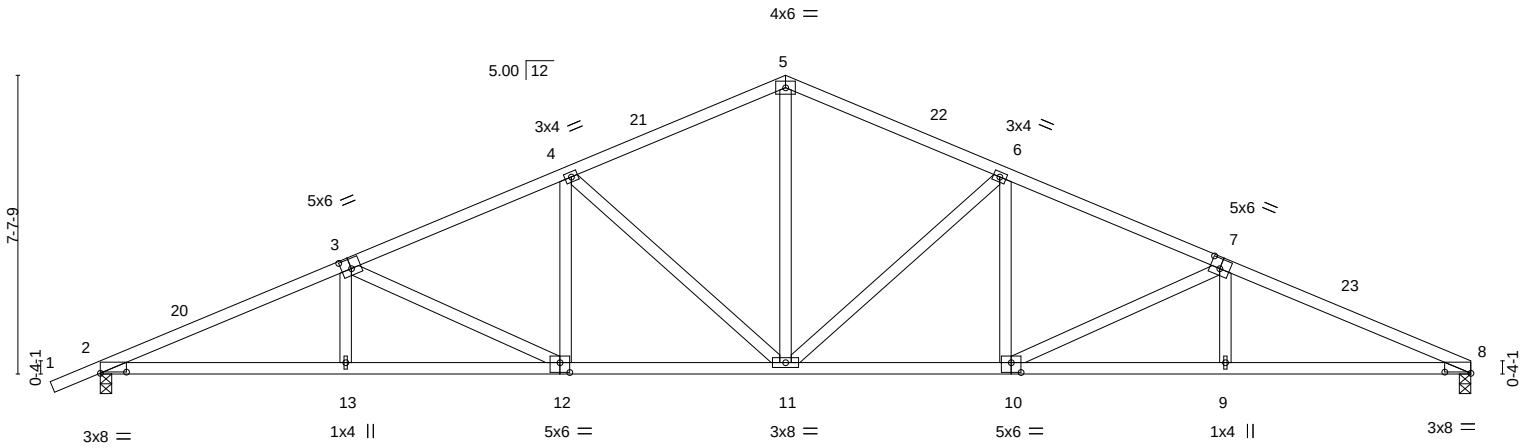
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	B3	COMMON	1	1	R73704679
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:55 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-H6ic1s5HB0pTPIWgc58QyPqtEfcjvzDzqPCO?UyE45Q

1-2-0	6-3-3	11-10-10	17-6-0	23-1-6	28-8-13	35-0-0
1-2-0	6-3-3	5-7-6	5-7-6	5-7-6	5-7-6	6-3-3

Scale = 1:58.8



6-3-3	11-10-10	17-6-0	23-1-6	28-8-13	35-0-0
6-3-3	5-7-6	5-7-6	5-7-6	5-7-6	6-3-3

Plate Offsets (X,Y)-- [2:0-8-0,0-0-6], [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [8:0-8-0,0-0-6], [10:0-3-0,0-3-0], [12:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.14	11	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.40	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.17	12-13	>999	240	Weight: 140 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=134(LC 34)
Max Uplift 2=-815(LC 35), 8=-768(LC 36)
Max Grav 2=1678(LC 32), 8=1633(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4275/1890, 3-4=-3273/1370, 4-5=-2251/833, 5-6=-2250/845, 6-7=-3276/1379, 7-8=-4287/1917
BOT CHORD 2-13=-1718/3843, 12-13=-1239/3406, 11-12=-707/2458, 10-11=-693/2461, 9-10=-1248/3418, 8-9=-1727/3855
WEBS 5-11=-113/1182, 6-11=-807/147, 6-10=0/472, 7-10=-669/151, 4-11=-804/149, 4-12=0/469, 3-12=-653/128

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; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-3-5, Interior(1) 2-3-5 to 17-6-0, Exterior(2R) 17-6-0 to 21-0-0, Interior(1) 21-0-0 to 35-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=815, 8=768.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 35-0-0 for 85.7 plf.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

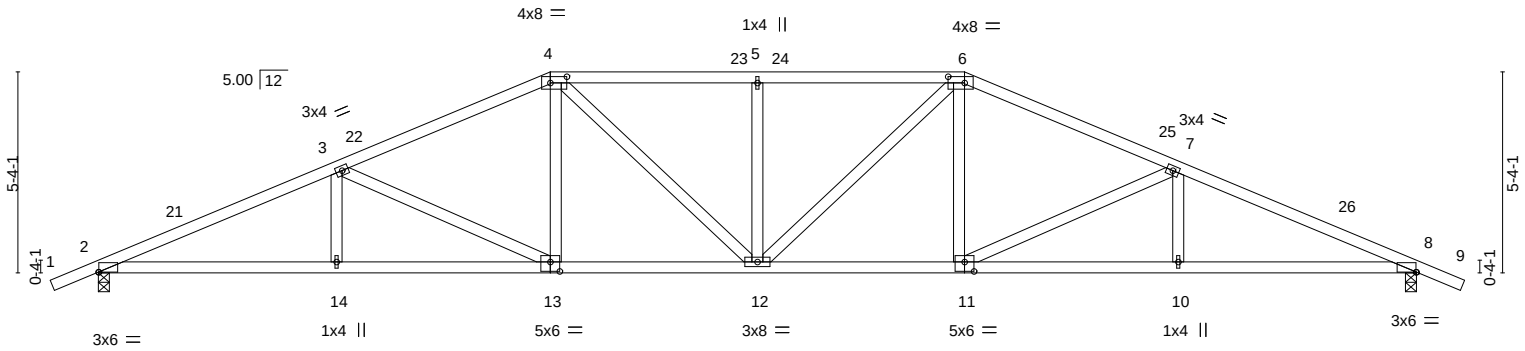
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	B3B	Hip	1	1	R73704680
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:37:57 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-DVqNSX7Yje3Bfbg2jWBu1qwFiSJoNy2GIjhV4NyE45O

1-2-0	6-3-14	12-0-0	17-6-0	23-0-0	28-8-2	35-0-0	36-2-0
1-2-0	6-3-14	5-8-2	5-6-0	5-6-0	5-8-2	6-3-14	1-2-0

Scale = 1:61.2



6-3-14	12-0-0	17-6-0	23-0-0	28-8-2	35-0-0
6-3-14	5-8-2	5-6-0	5-6-0	5-8-2	6-3-14

Plate Offsets (X,Y)-- [2:0-0-2,0-0-0], [4:0-5-4,0-2-0], [6:0-5-4,0-2-0], [8:0-0-2,0-0-0], [11:0-3-0,0-3-0], [13:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.15	12	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.41	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.15	12	>999	240	Weight: 138 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-95(LC 10)
Max Uplift 2=-186(LC 12), 8=-186(LC 12)
Max Grav 2=1623(LC 1), 8=1623(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3378/416, 3-4=-2715/377, 4-5=-2703/407, 5-6=-2703/407, 6-7=-2715/377, 7-8=-3378/416
BOT CHORD 2-14=-302/3058, 13-14=-302/3058, 12-13=-181/2431, 11-12=-191/2431, 10-11=-315/3058, 8-10=-315/3058
WEBS 3-13=-695/136, 4-13=0/479, 4-12=-52/474, 5-12=-400/127, 6-12=-52/474, 6-11=0/479, 7-11=-695/136

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; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-3-5, Interior(1) 2-3-5 to 12-0-0, Exterior(2R) 12-0-0 to 16-11-6, Interior(1) 16-11-6 to 23-0-0, Exterior(2R) 23-0-0 to 27-11-6, Interior(1) 27-11-6 to 36-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

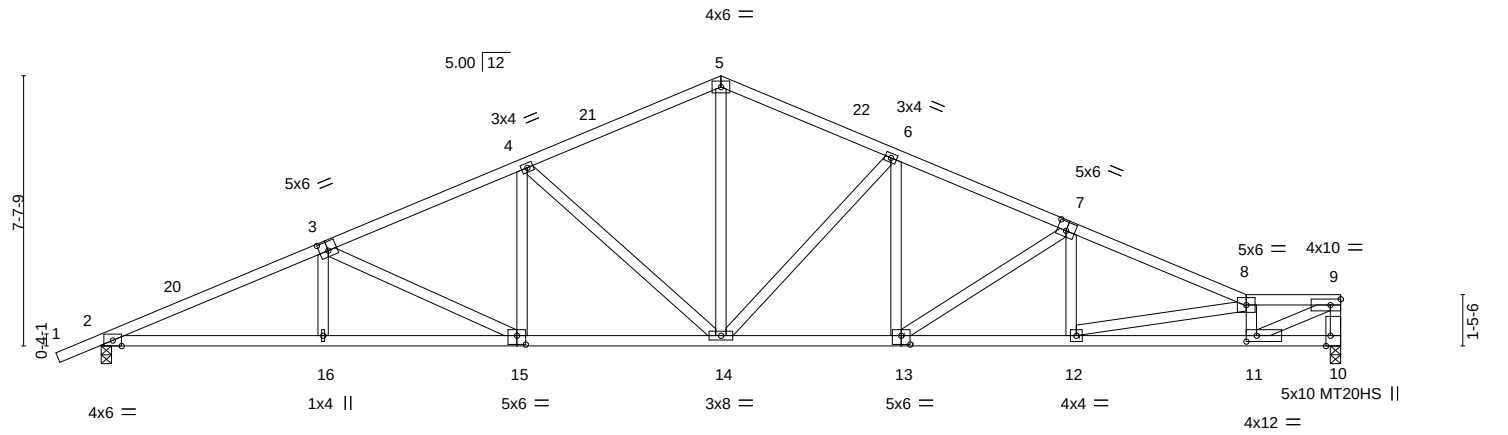
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	B4	ROOF SPECIAL	1	1	R73704681
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:01 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-6G4uHvA2nsad7DzqyLFqBg4tZ4ePJgksDLfiD8yE45K

1-2-0	6-3-3	11-10-10	17-6-0	22-5-5	27-4-11	32-4-0	35-0-0
1-2-0	6-3-3	5-7-6	5-7-6	4-11-5	4-11-5	4-11-5	2-8-0

Scale = 1:65.1



6-3-3	11-10-10	17-6-0	22-5-5	27-4-11	32-4-0	35-0-0
6-3-3	5-7-6	5-7-6	4-11-5	4-11-5	4-11-5	2-8-0

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [10:0-3-8,Edge], [11:0-3-8,0-2-0], [13:0-3-0,0-3-0], [15:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.14	14	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.39	14-15	>999	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.14	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.20	15-16	>999	240	Weight: 150 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
9-11: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 10=0-3-8, 2=0-3-8
Max Horz 2=160(LC 34)
Max Uplift 10=-861(LC 36), 2=-1036(LC 35)
Max Grav 10=1712(LC 39), 2=1898(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4804/2428, 3-4=-3635/1740, 4-5=-2440/1033, 5-6=-2287/903, 6-7=-3295/1489, 7-8=-4187/1991, 8-9=-3778/1748, 9-10=-1880/873
BOT CHORD 2-16=-2280/4356, 15-16=-1640/3775, 14-15=-961/2679, 13-14=-768/2436, 12-13=-1335/3350, 11-12=-1613/3698, 10-11=-248/301
WEBS 3-15=-652/137, 4-15=0/472, 4-14=-806/150, 5-14=-141/1185, 6-14=-748/162, 6-13=-40/474, 7-13=-600/169, 7-12=-25/263, 8-12=-514/396, 8-11=-1806/926, 9-11=-1883/4060

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; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-3-5, Interior(1) 2-3-5 to 17-6-0, Exterior(2R) 17-6-0 to 21-0-0, Interior(1) 21-0-0 to 34-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=861, 2=1036.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 4000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 35-0-0 for 114.3 plf.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

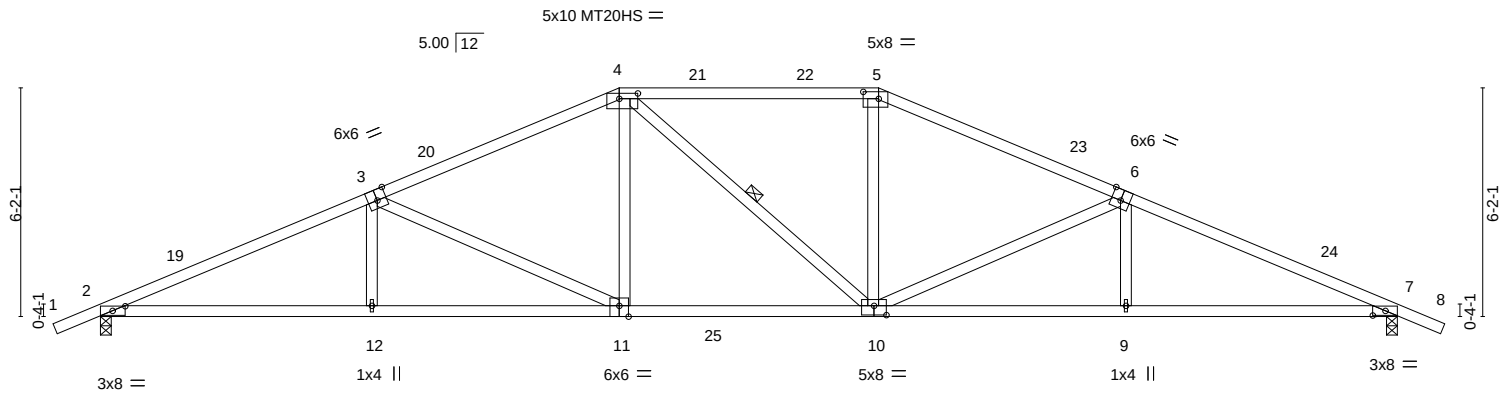
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	B4B	Hip	1	1	R73704682
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:03 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-2fBeibBIITqLNW7C4mIIH5AEvtKrnf09gf8pH1yE45I

1-2-0	7-3-14	14-0-0	21-0-0	27-8-2	35-0-0	36-2-0
1-2-0	7-3-14	6-8-2	7-0-0	6-8-2	7-3-14	1-2-0

Scale = 1:62.2



7-3-14	14-0-0	21-0-0	27-8-2	35-0-0
7-3-14	6-8-2	7-0-0	6-8-2	7-3-14

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.21	10-11	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.47	10-11	>885	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.16	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.14	10-11	>999	240	Weight: 131 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
3-11,6-10: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-10

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-110(LC 10)
Max Uplift 2=-186(LC 12), 7=-186(LC 12)
Max Grav 2=1786(LC 17), 7=1781(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3634/411, 3-4=-2778/370, 4-5=-2481/376, 5-6=-2755/369, 6-7=-3623/411
BOT CHORD 2-12=-288/3385, 11-12=-290/3377, 10-11=-151/2525, 9-10=-303/3284, 7-9=-301/3292
WEBS 3-12=0/293, 3-11=-943/154, 4-11=0/670, 5-10=0/634, 6-10=-953/154, 6-9=0/295

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; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-3-5, Interior(1) 2-3-5 to 14-0-0, Exterior(2R) 14-0-0 to 18-11-6, Interior(1) 18-11-6 to 21-0-0, Exterior(2R) 21-0-0 to 25-11-6, Interior(1) 25-11-6 to 36-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

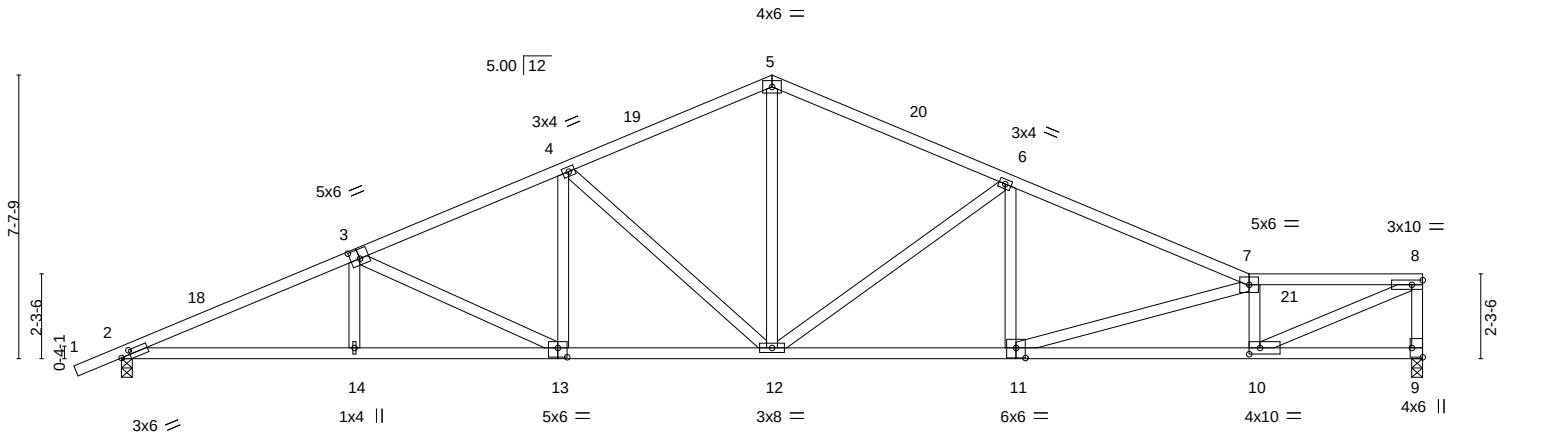
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	B5	ROOF SPECIAL	1	1	R73704683
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:06 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-TEtnKcDBbOCvE_snlvr?ujokI5M1_x1bMcNTuLyE45F

1-2-0	6-3-3	11-10-10	17-6-0	23-11-0	30-4-0	35-0-0
1-2-0	6-3-3	5-7-6	5-7-6	6-5-0	6-5-0	4-8-0

Scale = 1:62.0



6-3-3	11-10-10	17-6-0	23-11-0	30-4-0	35-0-0
6-3-3	5-7-6	5-7-6	6-5-0	6-5-0	4-8-0

Plate Offsets (X,Y)-- [2:0-3-0,0-1-8], [3:0-3-0,0-3-0], [9:Edge,0-3-8], [10:0-3-8,0-2-0], [11:0-3-0,0-3-4], [13:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.14	12	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.40	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.16	13	>999	240	Weight: 146 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
6-12,8-10: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=178(LC 34)
Max Uplift 9=-398(LC 36), 2=-534(LC 35)
Max Grav 9=1532(LC 1), 2=1618(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3572/1195, 3-4=-2806/913, 4-5=-2079/612, 5-6=-2095/593, 6-7=-2855/883, 7-8=-2972/886, 8-9=-1473/458
BOT CHORD 2-14=-1184/3289, 13-14=-930/3054, 12-13=-606/2442, 11-12=-542/2544, 10-11=-756/3063, 9-10=-222/273
WEBS 3-13=-654/115, 4-13=0/467, 4-12=-802/148, 5-12=-126/1156, 6-12=-868/187, 6-11=0/419, 7-11=-588/237, 7-10=-1253/483, 8-10=-972/3215

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; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-3-5, Interior(1) 2-3-5 to 17-6-0, Exterior(2R) 17-6-0 to 21-0-0, Interior(1) 21-0-0 to 34-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 2. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss has been designed for a total drag load of 1600 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 35-0-0 for 45.7 plf.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	B5B	Hip	1	1	R73704684
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:08 2022 Page 1
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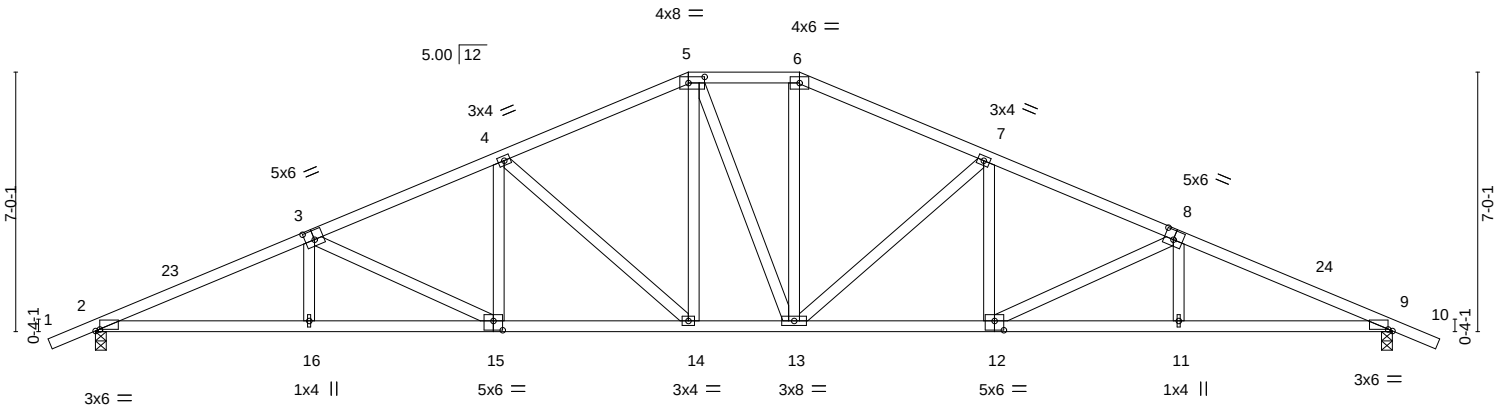
1-2-0	5-9-3	10-10-10	16-0-0	19-0-0	24-1-6	29-2-13	35-0-0	36-2-0
1-2-0	5-9-3	5-1-6	5-1-6	3-0-0	5-1-6	5-1-6	5-9-3	1-2-0

Scale = 1:62.2



5-9-3	10-10-10	16-0-0	19-0-0	24-1-6	29-2-13	35-0-0
5-9-3	5-1-6	5-1-6	3-0-0	5-1-6	5-1-6	5-9-3

Plate Offsets (X,Y)-- [2:0-1-6,0-0-8], [3:0-3-0,0-3-0], [5:0-5-4,0-2-0], [8:0-3-0,0-3-0], [9:0-1-6,0-0-8], [12:0-3-0,0-3-0], [15:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.14	14	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.39	14-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.14	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.14	14	>999	240	Weight: 152 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-124(LC 10)
Max Uplift 2=-186(LC 12), 9=-186(LC 12)
Max Grav 2=1623(LC 1), 9=1623(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3399/391, 3-4=-2846/380, 4-5=-2229/352, 5-6=-2004/354, 6-7=-2232/352, 7-8=-2845/379, 8-9=-3399/391
BOT CHORD 2-16=-282/3080, 15-16=-284/3076, 14-15=-205/2557, 13-14=-104/2001, 12-13=-217/2556, 11-12=-296/3076, 9-11=-294/3080
WEBS 3-15=-575/90, 4-15=0/439, 4-14=-752/139, 5-14=-44/577, 6-13=-49/578, 7-13=-747/139, 7-12=0/436, 8-12=-577/90

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; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-3-5, Interior(1) 2-3-5 to 16-0-0, Exterior(2E) 16-0-0 to 19-0-0, Exterior(2R) 19-0-0 to 24-1-6, Interior(1) 24-1-6 to 36-2-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	C1E	GABLE	1	1	R73704685
					Job Reference (optional)

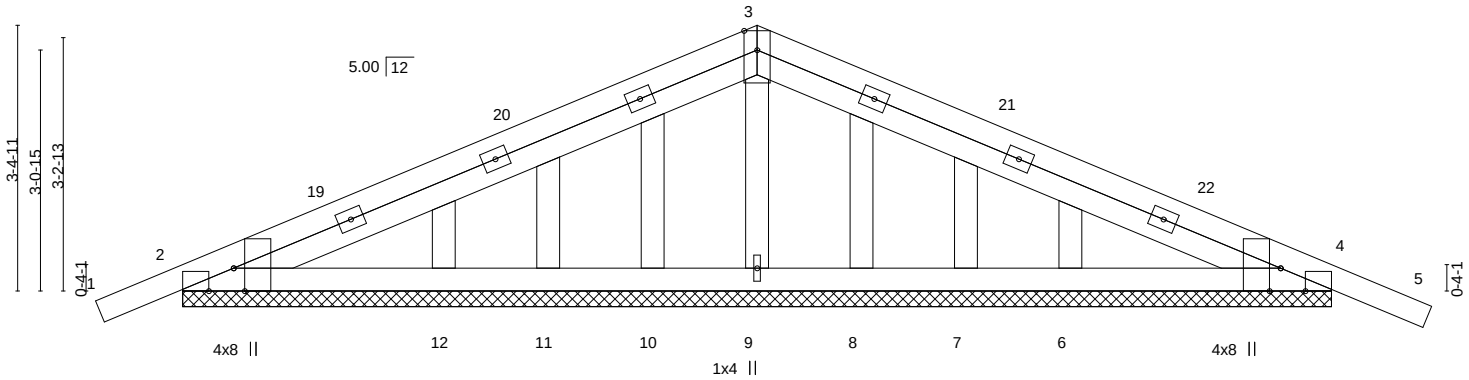
US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:11 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-pBggOKHKQxqCKlklYSRAbnVft6ALfPhKWu4EaZyE45A

-1-0-0 1-0-0 | 7-4-0 7-4-0 | 14-8-0 7-4-0 | 15-10-0 1-2-0

Scale = 1:29.4

4x8 ||

MT20 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.



7-4-0 7-4-0 | 14-8-0 7-4-0

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-3-13,Edge], [4:0-3-8,Edge], [4:0-3-13,Edge]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL 1.25	TC	0.20	Vert(LL)	0.01	5	n/r	120	MT20	185/144
TCDL	18.0	Lumber DOL 1.25	BC	0.19	Vert(CT)	0.03	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.13	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S							Weight: 67 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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

REACTIONS. All bearings 14-8-0.
(lb) - Max Horz 2=-49(LC 32)
Max Uplift All uplift 100 lb or less at joint(s) 9, 11, 7 except 2=-382(LC 35), 4=-390(LC 36)
Max Grav All reactions 250 lb or less at joint(s) 10, 11, 12, 8, 7, 6 except 2=467(LC 44), 4=482(LC 33), 9=502(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-862/821, 3-4=-862/834
BOT CHORD 2-12=-691/716, 11-12=-373/427, 10-11=-246/287, 7-8=-246/287, 6-7=-373/427, 4-6=-691/721
WEBS 3-9=-482/216

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-11 to 1-11-5, Interior(1) 1-11-5 to 7-4-0, Exterior(2R) 7-4-0 to 10-4-0, Interior(1) 10-4-0 to 15-10-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 11, 7 except (jt=lb) 2=382, 4=390.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 1400 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 14-8-0 for 95.5 plf.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	C2	Common	1	1	R73704686
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:13 2022 Page 1
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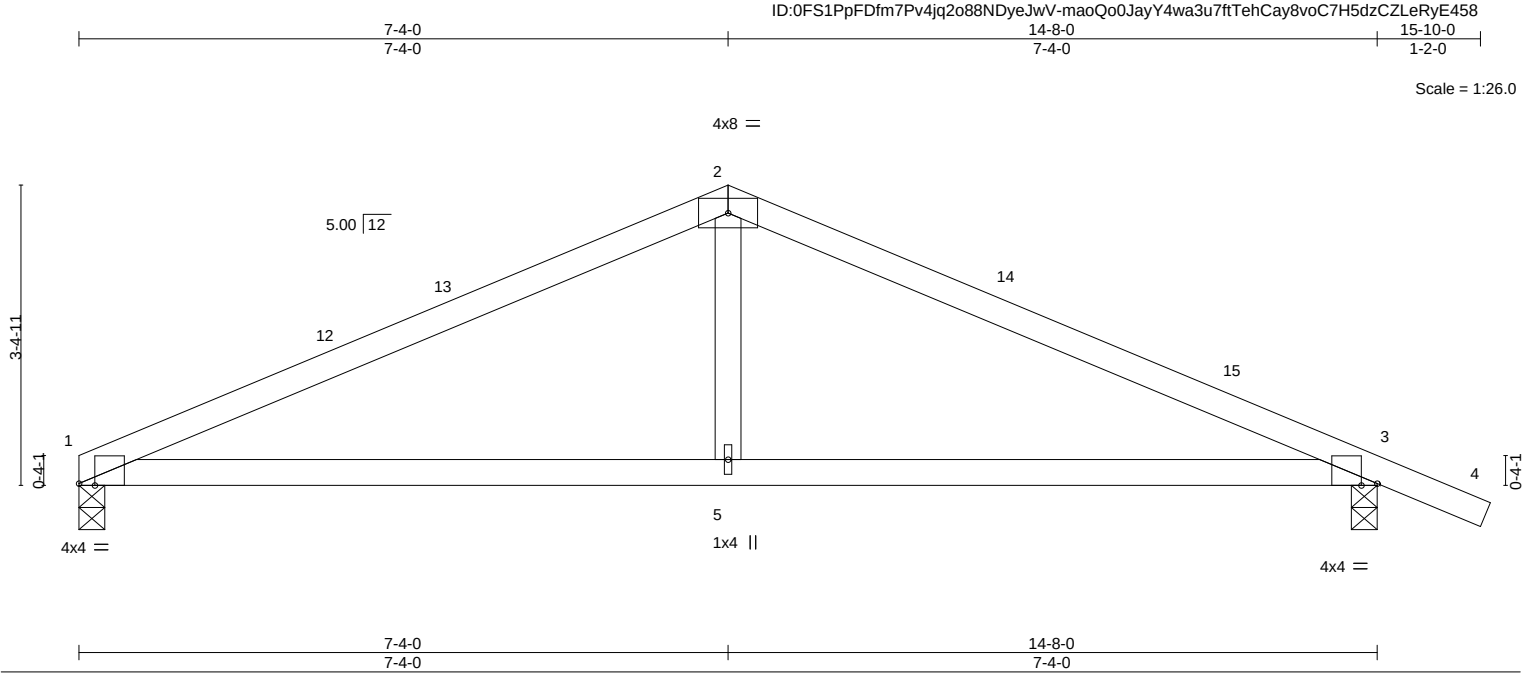

Plate Offsets (X,Y)-- [1:0-2-2,Edge], [3:0-2-2,Edge]

LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 16.0		Plate Grip DOL 1.25	TC 0.40	Vert(LL) -0.07 5-8 >999 360	MT20 185/144
TCDL 18.0		Lumber DOL 1.25	BC 0.42	Vert(CT) -0.17 5-8 >999 240	
BCLL 0.0	*	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.02 3 n/a n/a	
BCDL 10.0		Code IRC2018/TPI2014	Matrix-AS	Wind(LL) 0.06 5-8 >999 240	Weight: 40 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=0-3-8, 3=0-3-8
Max Horz 1=-52(LC 10)
Max Uplift 1=-57(LC 12), 3=-106(LC 12)
Max Grav 1=642(LC 1), 3=732(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1034/305, 2-3=-1053/295
BOT CHORD 1-5=-163/901, 3-5=-163/901
WEBS 2-5=0/353

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-4-0, Exterior(2R) 7-4-0 to 10-4-0, Interior(1) 10-4-0 to 15-10-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	C3	ROOF SPECIAL	1	1	R73704687

Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:14 2022 Page 1

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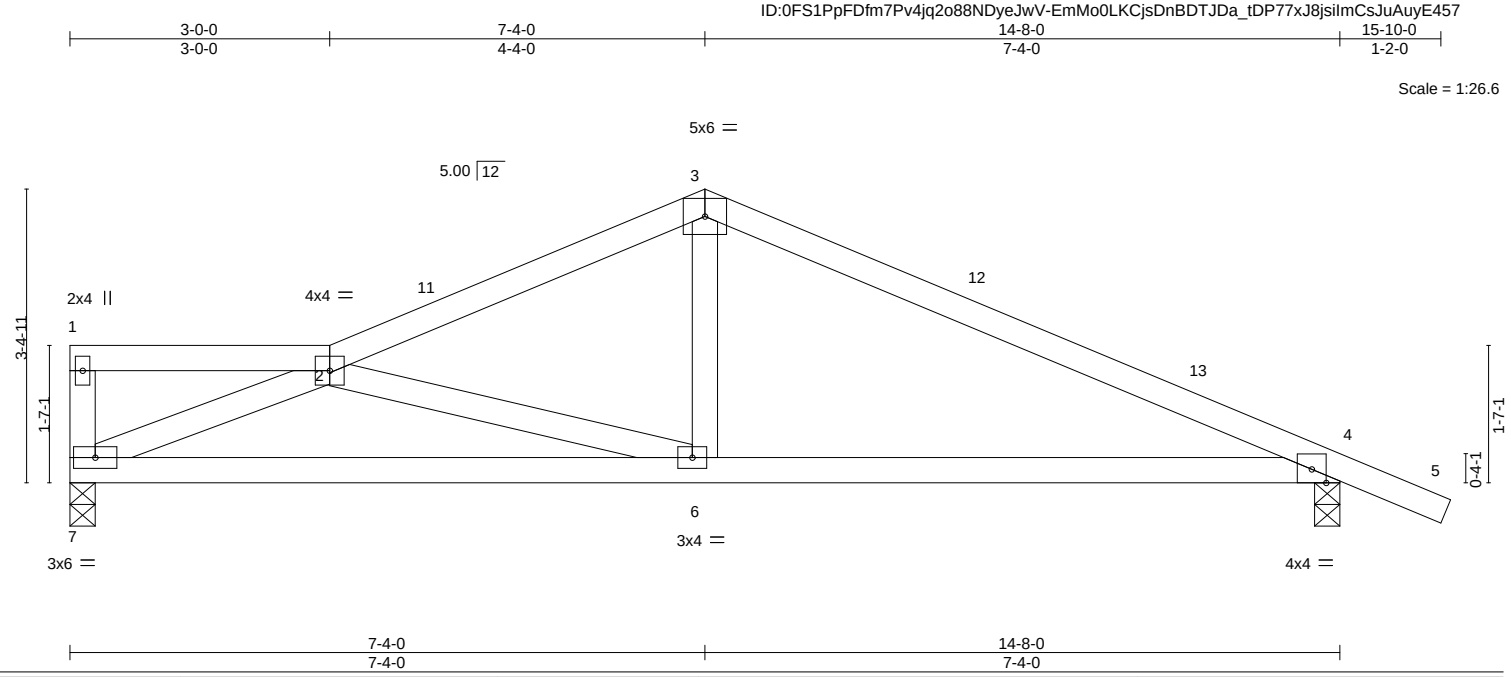

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.06	6-10	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.18	6-10	>993	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.07	6-10	>999	240	Weight: 49 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-

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

REACTIONS. (size) 4=0-3-8, 7=0-3-8
Max Horz 7=-84(LC 10)
Max Uplift 4=-105(LC 12), 7=-57(LC 12)
Max Grav 4=726(LC 1), 7=635(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-950/282, 3-4=-984/268
BOT CHORD 6-7=-290/1098, 4-6=-130/851
WEBS 2-7=-1137/415, 2-6=-306/177, 3-6=0/375

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-0-0, Interior(1) 3-0-0 to 7-4-0, Exterior(2R) 7-4-0 to 10-4-0, Interior(1) 10-4-0 to 15-10-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 7. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	C4	ROOF SPECIAL	1	1	R73704688
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:16 2022 Page 1
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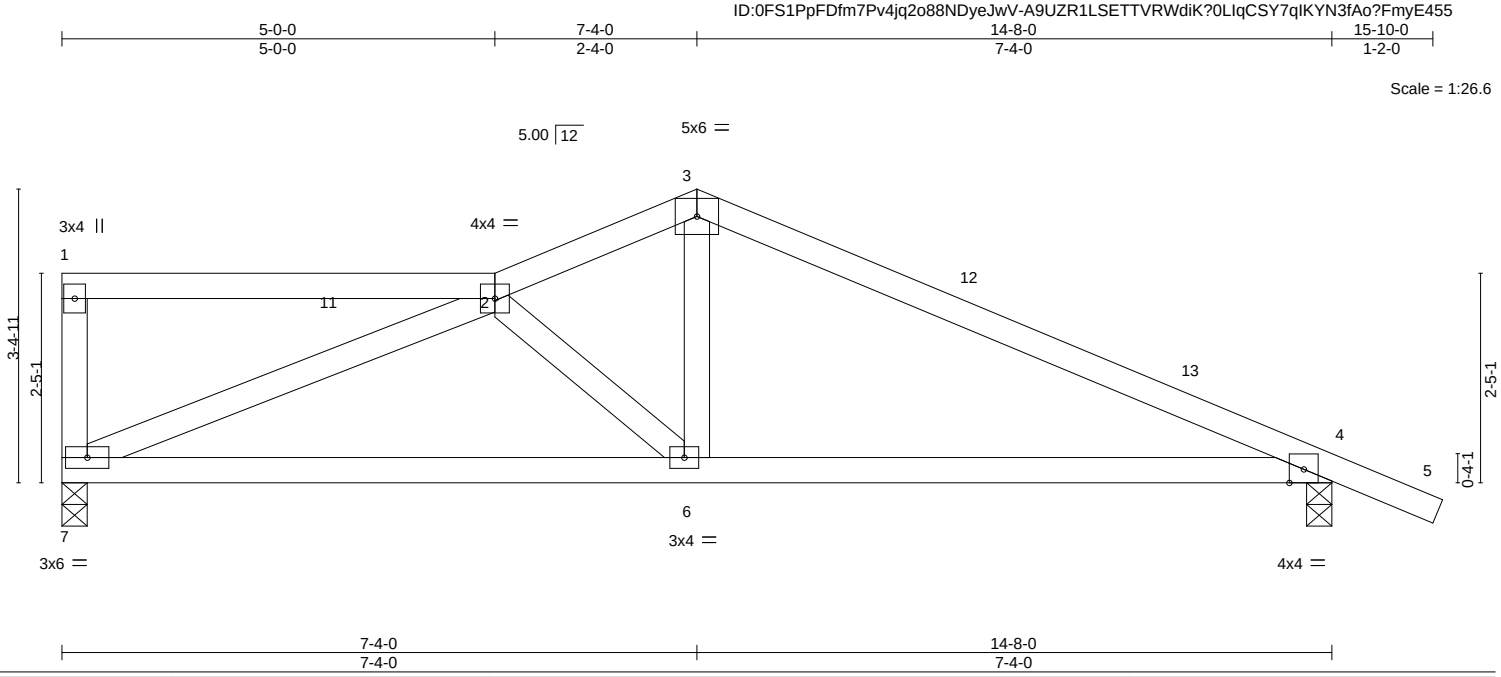


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.06	6-10	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.18	6-10	>980	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.07	6-10	>999	240	Weight: 51 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 4=0-3-8, 7=0-3-8
Max Horz 7=-104(LC 10)
Max Uplift 4=-104(LC 12), 7=-73(LC 8)
Max Grav 4=726(LC 1), 7=635(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-923/274, 3-4=-981/255
BOT CHORD 6-7=-198/978, 4-6=-113/848
WEBS 2-7=-997/342, 3-6=-8/391

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-4-0, Exterior(2R) 7-4-0 to 10-4-0, Interior(1) 10-4-0 to 15-10-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 7. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

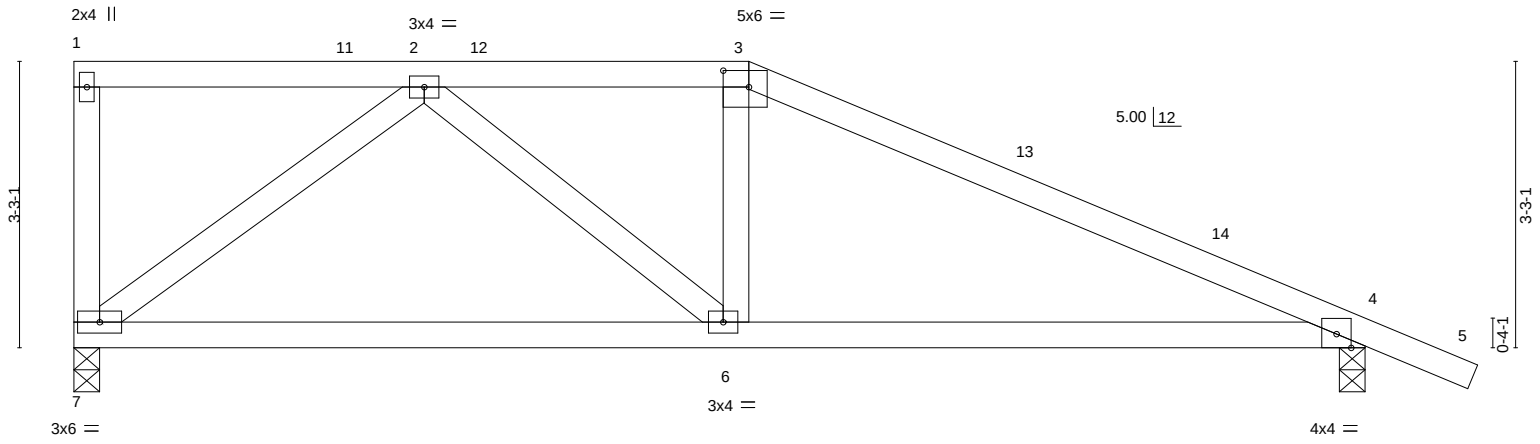
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	C5	ROOF SPECIAL	1	1	R73704689
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:17 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-eL2xeNM4?nbM2gBuujYar2lehW9Y33GDuqXYnDyE454

3-11-12	7-8-0	14-8-0	15-10-0
3-11-12	3-8-4	7-0-0	1-2-0

Scale = 1:26.2



7-8-0	14-8-0
7-8-0	7-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.06	6-7	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.15	6-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.06	6-10	>999	240	Weight: 52 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 4=0-3-8, 7=0-3-8
Max Horz 7=-123(LC 10)
Max Uplift 4=-103(LC 12), 7=-109(LC 8)
Max Grav 4=726(LC 1), 7=635(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-869/280, 3-4=-1003/260
BOT CHORD 6-7=-78/610, 4-6=-116/871
WEBS 2-7=-734/284, 2-6=-90/372

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-8-0, Exterior(2R) 7-8-0 to 10-8-0, Interior(1) 10-8-0 to 15-10-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 7. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil) CERTIFICATE NO. 74609 DUSTIN REINMUTH Date Signed ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	C6G	ROOF SPECIAL GIRDER	1	2	R73704690
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:20 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-2wj3GPOzIizwv8wTZr5HTgNElkDIGKDfaomCOXyE451

3-9-8	4-1-8	5-0-0	6-0-0	8-8-0	10-6-8	14-8-0	15-10-0
3-9-8	0-4-0	0-10-8	1-0-0	2-8-0	1-10-8	4-1-8	1-2-0

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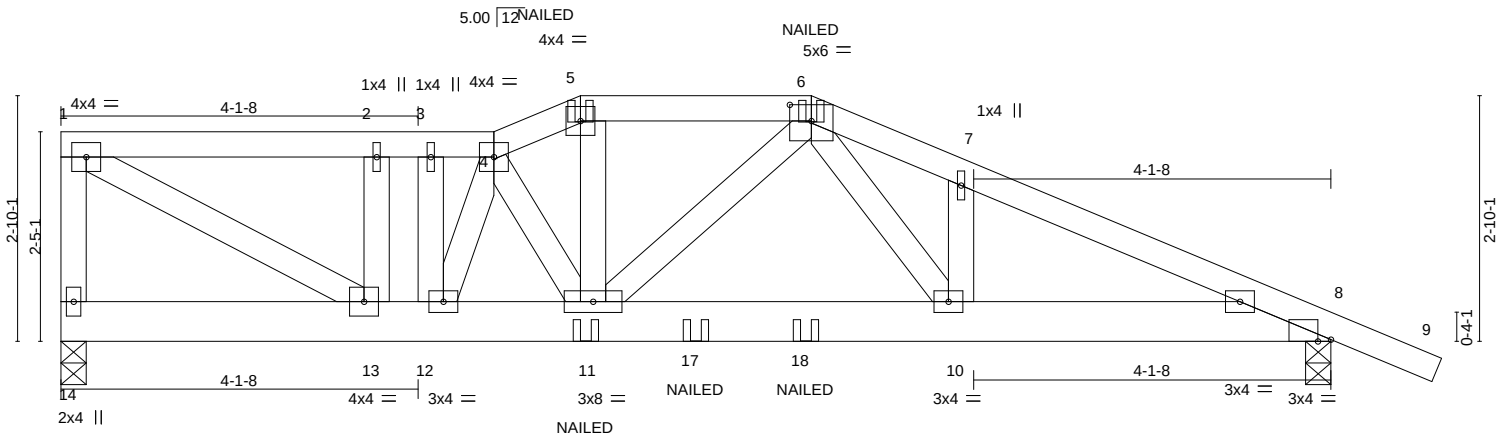

3-9-8	4-1-8	5-0-0	6-0-0	8-8-0	10-6-8	14-8-0
3-9-8	0-4-0	0-10-8	1-0-0	2-8-0	1-10-8	4-1-8

Plate Offsets (X,Y)-- [6:0-3-0,0-2-4], [8:0-1-13,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	-0.03	10-11	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.08	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.03	10-11	>999	240	Weight: 141 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Horz 14=-94(LC 6)
Max Uplift 14=-211(LC 4), 8=-215(LC 8)
Max Grav 14=1398(LC 1), 8=1475(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1360/224, 1-2=-2174/297, 2-3=-2174/297, 3-4=-2174/297, 4-5=-2721/368, 5-6=-2577/356, 6-7=-3194/433, 7-8=-3225/400
BOT CHORD 12-13=-241/2174, 11-12=-287/2543, 10-11=-248/2359, 8-10=-304/2934
WEBS 5-11=-111/818, 6-11=-56/346, 6-10=-139/1001, 4-12=-1112/146, 2-13=-375/130, 1-13=-352/2471

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 8. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 380 lb down and 68 lb up at 4-0-12, and 380 lb down and 68 lb up at 10-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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LOAD CASE(S) Standard

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

LOAD CASE(S) Standard

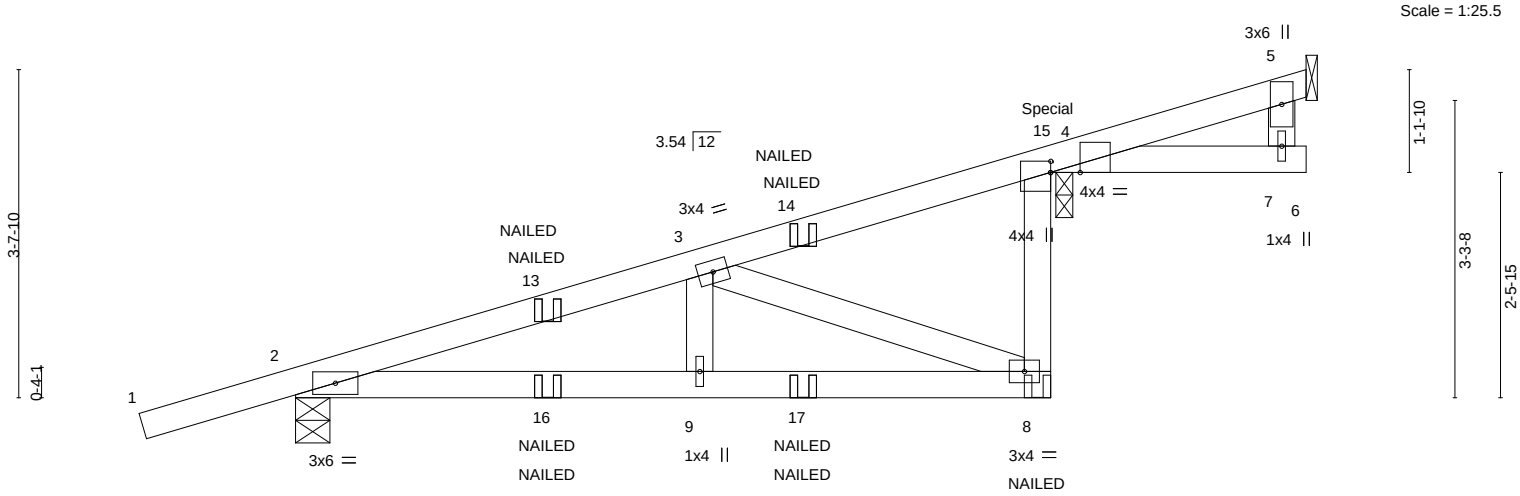
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-68, 4-5=-68, 5-6=-68, 6-9=-68, 8-14=-20
   Concentrated Loads (lb)
   Vert: 5=-33(F) 6=-33(F) 11=-229(F) 12=-380 10=-380 17=-229(F) 18=-229(F)

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	CG1	DIAGONAL HIP GIRDER	1	1	R73704691
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:22 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-?Jrqh5QDqJDe9R4shG7IY5SVsXwHkK?y26FJSQyE45?

-1-7-13 | 4-5-11 | 8-4-5 | 11-0-12 | 11-2-4
1-7-13 | 4-5-11 | 3-10-10 | 2-8-7 | 0-1-8

Scale = 1:25.5



4-5-11 | 8-4-5 | 8-7-4 | 11-0-12 | 11-2-4
4-5-11 | 3-10-10 | 0-2-15 | 2-5-8 | 0-1-8

Plate Offsets (X,Y)-- [4:0-3-15,0-0-0], [4:0-1-8,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.05	8-9	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.14	8-9	>743	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.28	Horz(CT)	-0.04	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP		Wind(LL)	0.05	8-9	>999	240	Weight: 37 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-4-9, 5=Mechanical, 4=0-2-4
Max Horz 2=2174(LC 1), 4=-2174(LC 1)
Max Uplift 2=-165(LC 8)
Max Grav 2=1245(LC 1), 5=108(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3134/264, 3-4=-2411/253
BOT CHORD 2-9=-45/802, 8-9=-45/802
WEBS 3-8=-766/52, 4-8=0/369

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=165.
7) Beveled plate or shim required to provide full bearing surface with truss chord 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.
9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 106 lb down and 92 lb up at 8-5-6 on top chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-76, 8-10=-20, 4-6=-20

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

LOAD CASE(S) Standard

Concentrated Loads (lb)

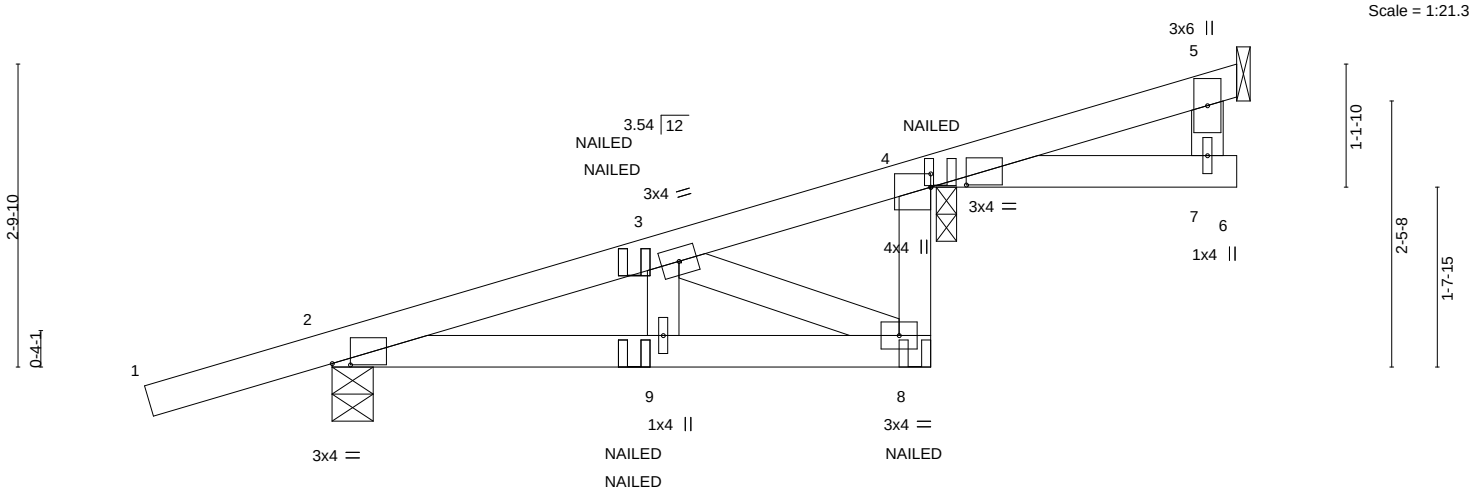
Vert: 8=-48(B) 14=-19(F=-10, B=-10) 15=-68(B) 16=-3(F=-1, B=-1) 17=-45(F=-22, B=-22)

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	CG2	DIAGONAL HIP GIRDER	2	1	R73704692
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:24 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-xiza6mRUMwTMOlEEohADdWXu_Ld5CHPFVQkQWJyE44z

-1-7-13 | 3-0-11 | 5-6-6 | 8-2-13 | 8-4-5
1-7-13 | 3-0-11 | 2-5-11 | 2-8-7 | 0-1-8

Scale = 1:21.3



3-0-11 | 5-6-6 | 5-9-4 | 8-2-13 | 8-4-5
3-0-11 | 2-5-11 | 0-2-14 | 2-5-9 | 0-1-8

Plate Offsets (X,Y)-- [2:0-2-0,0-0-2], [4:0-3-15,0-0-4], [4:0-1-8,0-0-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.02	8	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.04	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP		Wind(LL)	0.01	8	>999	240	Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-4-9, 5=Mechanical, 4=0-2-4
Max Horz 2=1361(LC 1), 4=-1361(LC 1)
Max Uplift 2=-117(LC 8), 5=-6(LC 8)
Max Grav 2=816(LC 1), 5=129(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1727/82, 3-4=-1443/106
BOT CHORD 2-9=0/272, 8-9=0/272
WEBS 3-8=-294/0

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=117.
7) Beveled plate or shim required to provide full bearing surface with truss chord 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.
9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-76, 8-10=-20, 4-6=-20
Concentrated Loads (lb)
Vert: 9=-3(F=-1, B=-1) 8=-22(B) 4=-10(B)

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	CG3	DIAGONAL HIP GIRDER	2	1	R73704693
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:26 2022 Page 1
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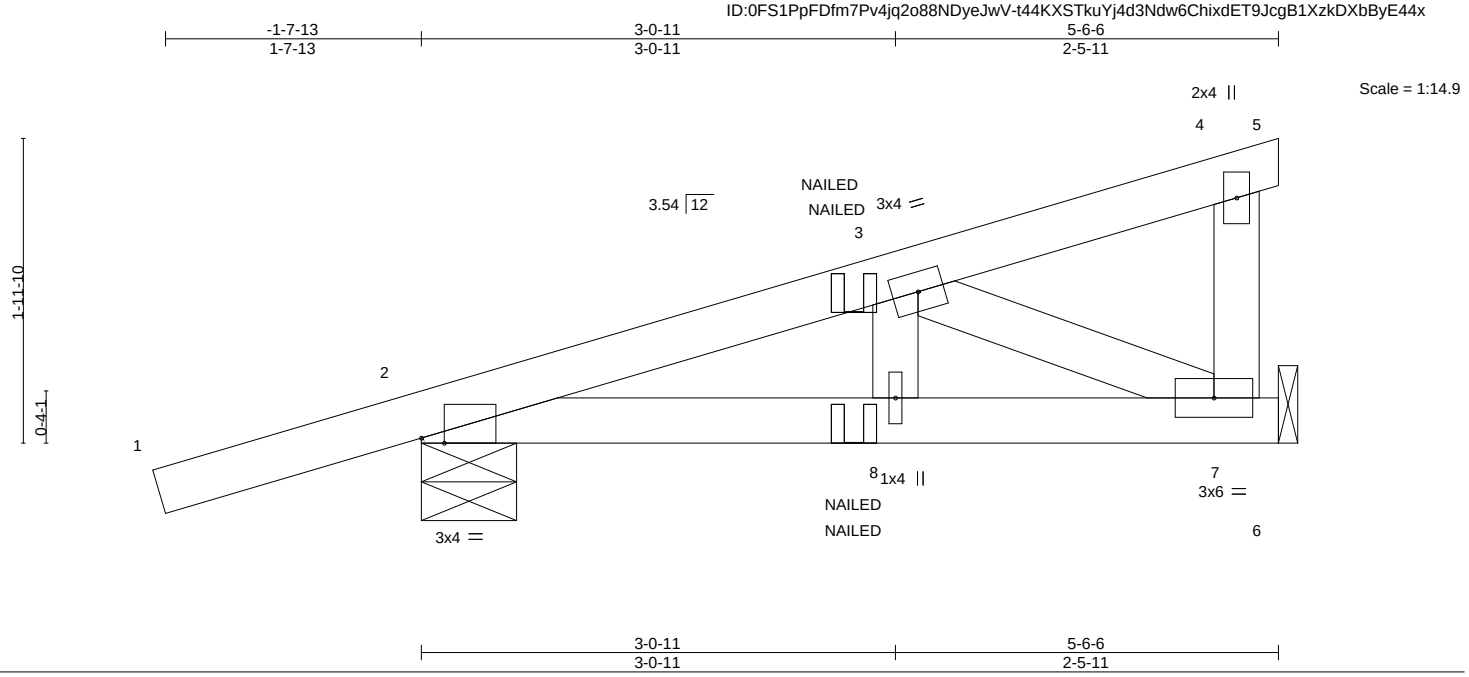

Plate Offsets (X,Y)-- [2:0-1-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.00	8	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.01	8-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP		Wind(LL)	0.00	11	>999	240	Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-7-6, 7=Mechanical
Max Horz 2=71(LC 7)
Max Uplift 2=-91(LC 8), 7=-13(LC 8)
Max Grav 2=403(LC 1), 7=249(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-362/2
BOT CHORD 2-8=-11/328, 7-8=-11/328
WEBS 3-7=-356/11

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-76, 4-5=-36, 6-9=-20
Concentrated Loads (lb)
Vert: 8=-3(F=-1, B=-1)

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	CG4	ROOF SPECIAL GIRDER	1	1	R73704694
					Job Reference (optional)

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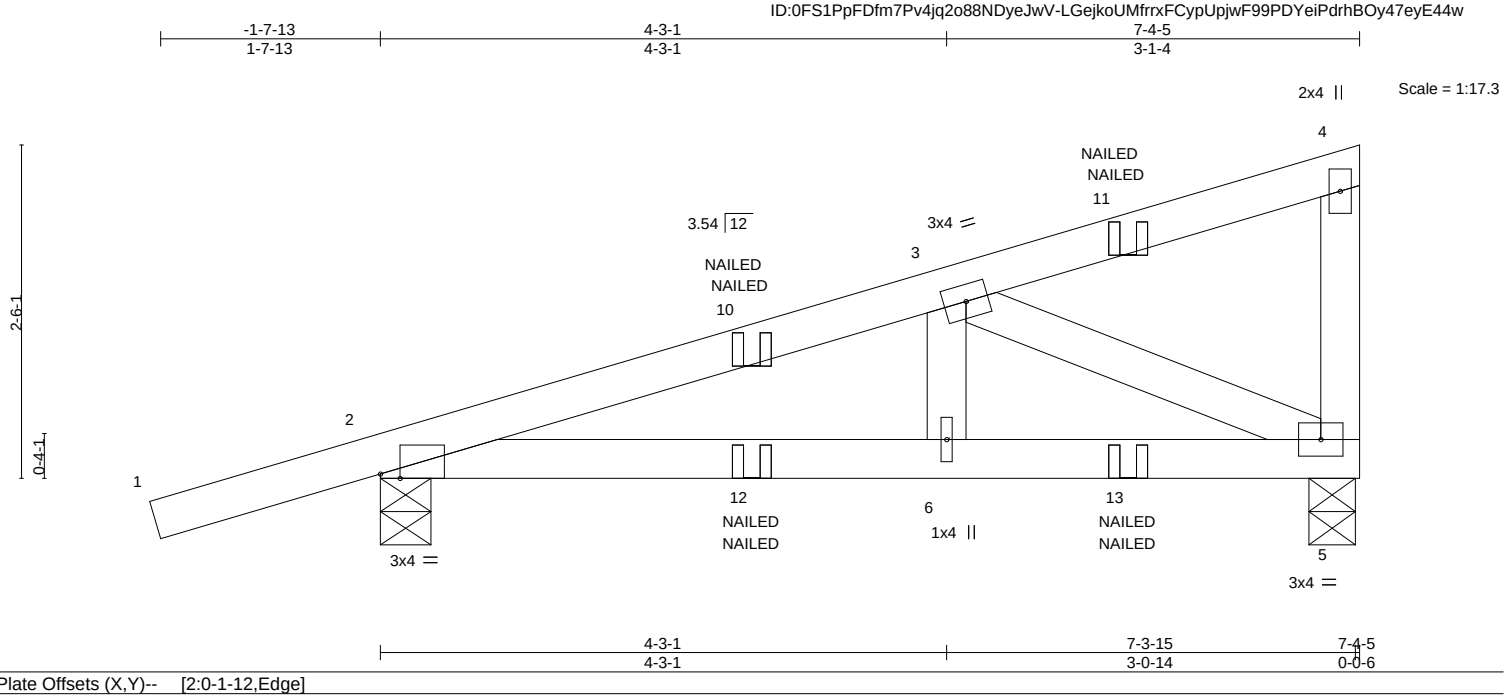

Plate Offsets (X,Y)-- [2:0-1-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.01	6-9	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.02	6-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP		Wind(LL)	0.01	6	>999	240	Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 2=0-4-9, 5=0-4-3
Max Horz 2=92(LC 22)
Max Uplift 2=-96(LC 8), 5=-25(LC 5)
Max Grav 2=506(LC 1), 5=382(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-624/26
BOT CHORD 2-6=-39/569, 5-6=-39/569
WEBS 3-5=-621/38

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-76, 5-7=-20
Concentrated Loads (lb)
Vert: 11=-19(F=-10, B=-10) 12=-3(F=-1, B=-1) 13=-45(F=-22, B=-22)

Registered Professional Engineer (Civil)
CERTIFICATE NO.
74609
DUSTIN
REINMUTH
Date Signed
ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	CJ1	Jack-Open	4	1	R73704695
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:29 2022 Page 1
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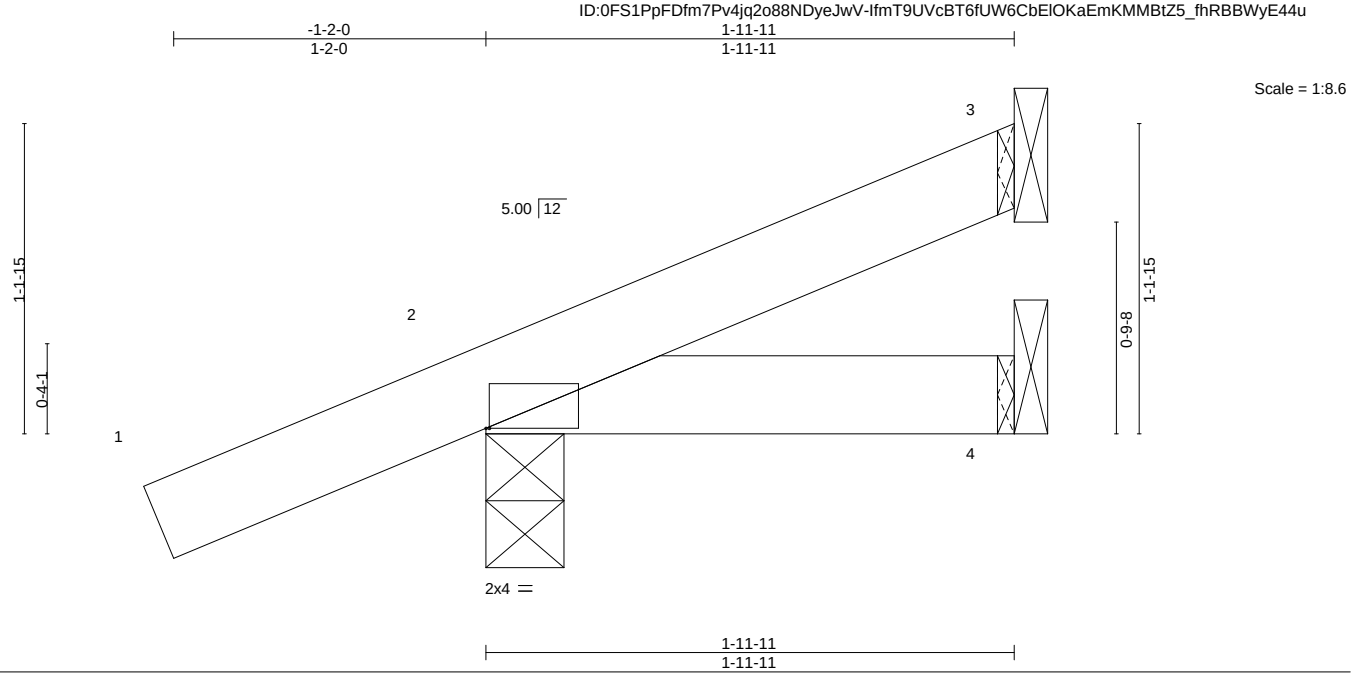

Plate Offsets (X,Y)-- [2:0-0-2,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	-0.00	7	>999	360	MT20	197/144
TCDL	18.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	-0.00	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP		Wind(LL)	-0.00	7	>999	240	Weight: 6 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=51(LC 12)
Max Uplift 3=-9(LC 12), 2=-63(LC 12)
Max Grav 3=43(LC 1), 2=195(LC 1), 4=32(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	CJ2	Jack-Open	4	1	R73704696
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:33 2022 Page 1
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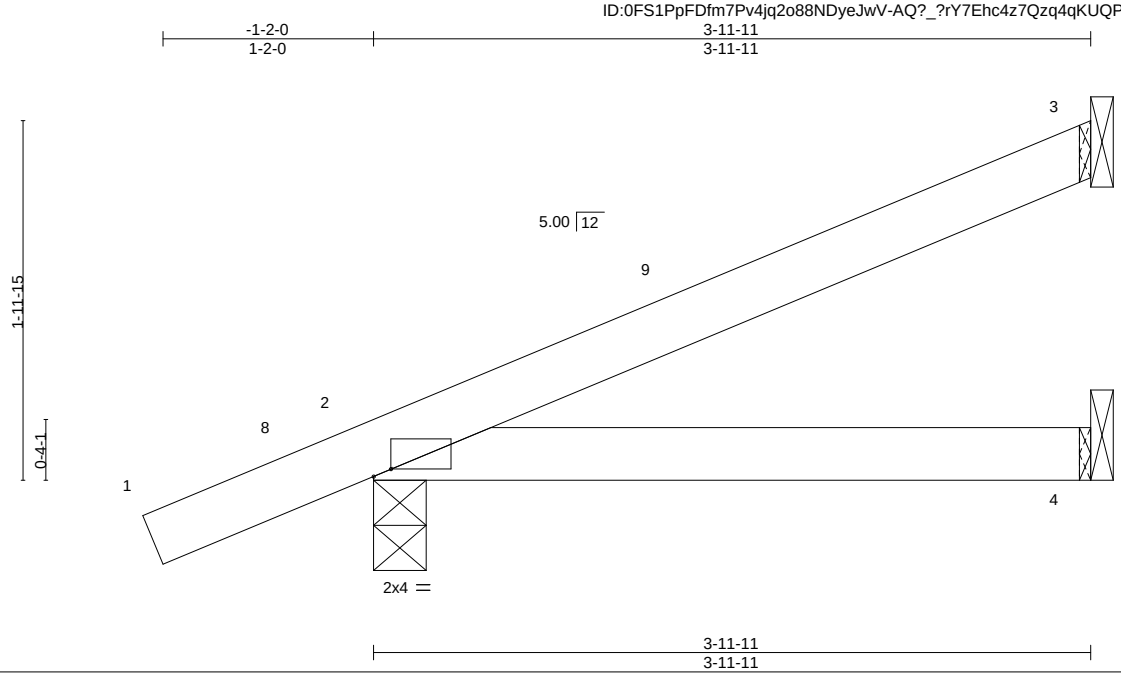

Plate Offsets (X,Y)-- [2:0-1-2,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.01	4-7	>999	360	MT20	197/144
TCDL	18.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.02	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP		Wind(LL)	0.01	4-7	>999	240	Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=77(LC 12)
Max Uplift 3=-33(LC 12), 2=-57(LC 12)
Max Grav 3=109(LC 1), 2=268(LC 1), 4=74(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 3-10-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	CJ3	Jack-Open	1	1	R73704697
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:34 2022 Page 1
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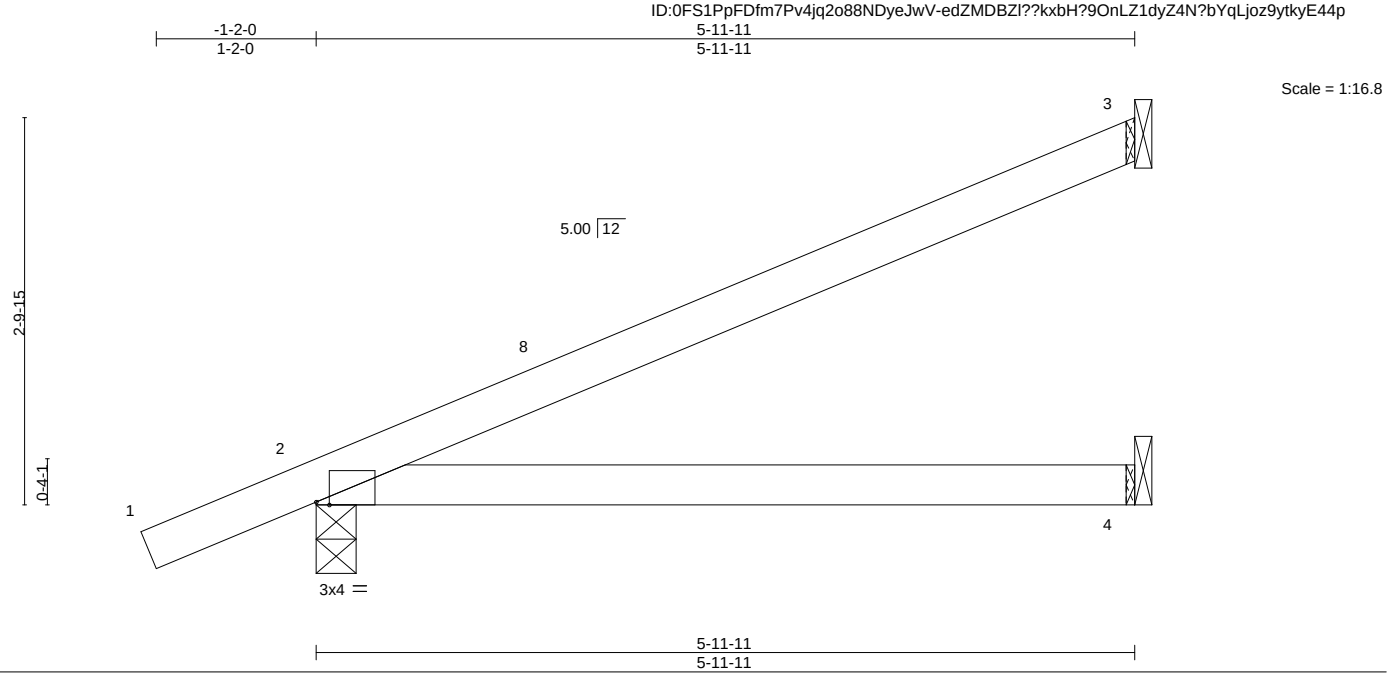

Plate Offsets (X,Y)-- [2:0-1-2,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.04	4-7	>999	360	MT20	197/144
TCDL	18.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.12	4-7	>588	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.06	4-7	>999	240	Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=104(LC 12)
Max Uplift 3=-55(LC 12), 2=-57(LC 12)
Max Grav 3=175(LC 1), 2=352(LC 1), 4=112(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 5-10-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	CJ3A	Jack-Open	1	1	R73704698
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:36 2022 Page 1
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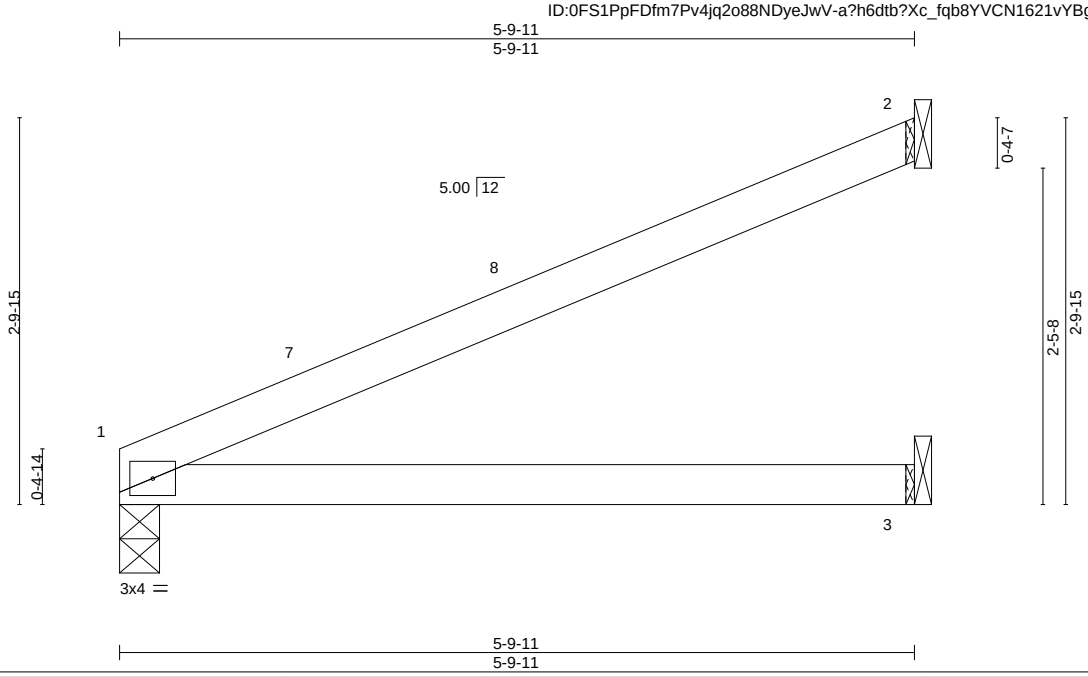

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.04	3-6	>999	360	MT20	197/144
TCDL	18.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.11	3-6	>607	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.06	3-6	>999	240	Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=77(LC 12)
Max Uplift 1=-6(LC 12), 2=-58(LC 12)
Max Grav 1=253(LC 1), 2=176(LC 1), 3=112(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-8-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	CJ11	JACK-CLOSED	1	1	R73704699
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:30 2022 Page 1
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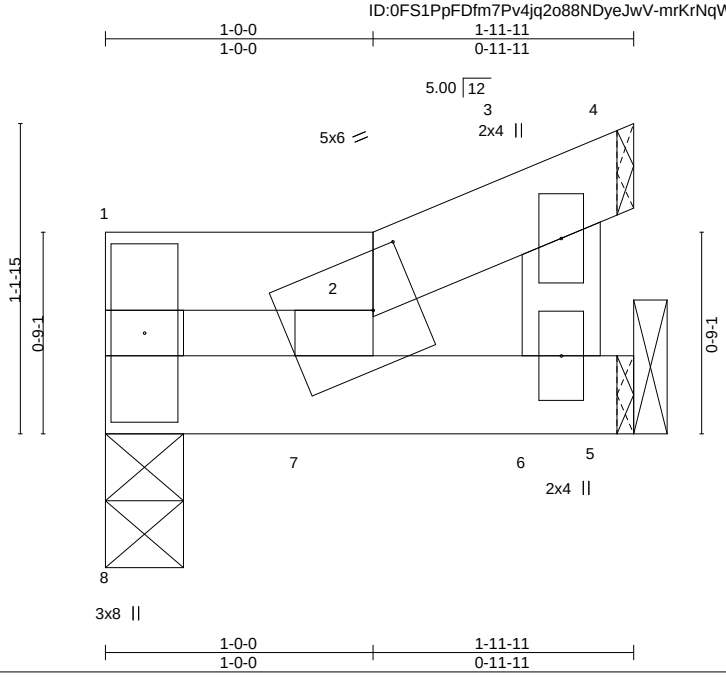

Scale = 1:8.6

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	-0.00	7	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	-0.00	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MR		Wind(LL)	0.00	7	>999	240	Weight: 6 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 5=Mechanical
Max Horz 8=29(LC 9)
Max Uplift 8=-12(LC 8), 5=-8(LC 12)
Max Grav 8=79(LC 1), 5=73(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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 1-0-0, Interior(1) 1-0-0 to 1-11-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) 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.
8) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	CJ12	JACK-CLOSED	1	1	R73704700
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:32 2022 Page 1
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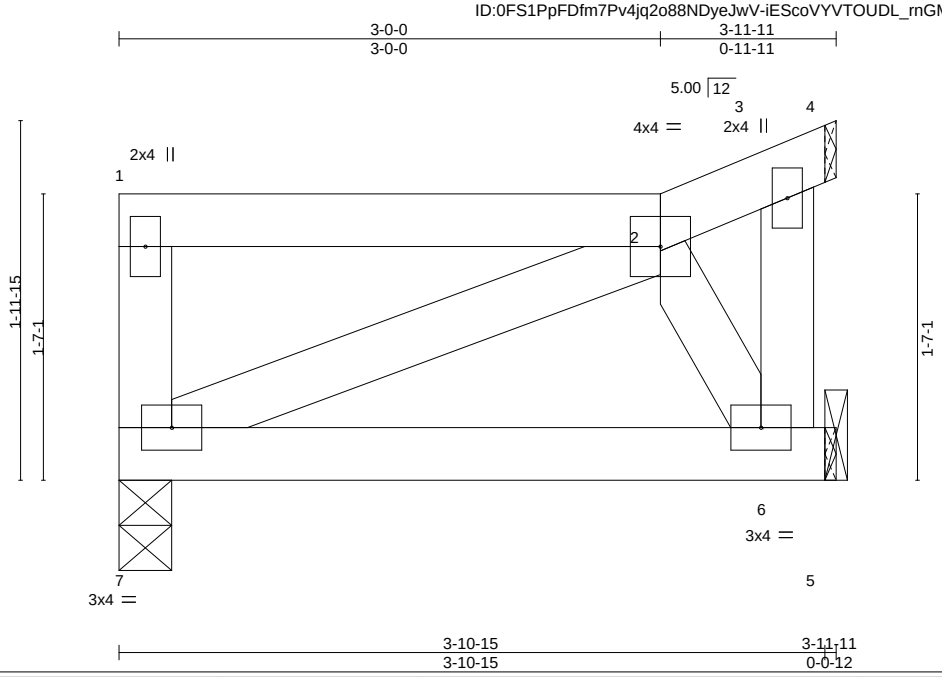

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	-0.01	6-7	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.02	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP		Wind(LL)	0.00	7	****	240	Weight: 17 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 6=Mechanical, 7=0-3-8
Max Horz 7=60(LC 11)
Max Uplift 6=-31(LC 9), 7=-38(LC 8)
Max Grav 6=172(LC 1), 7=156(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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-0-0, Interior(1) 3-0-0 to 3-11-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) 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.
8) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	D1E	GABLE	1	1	R73704701
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:38 2022 Page 1
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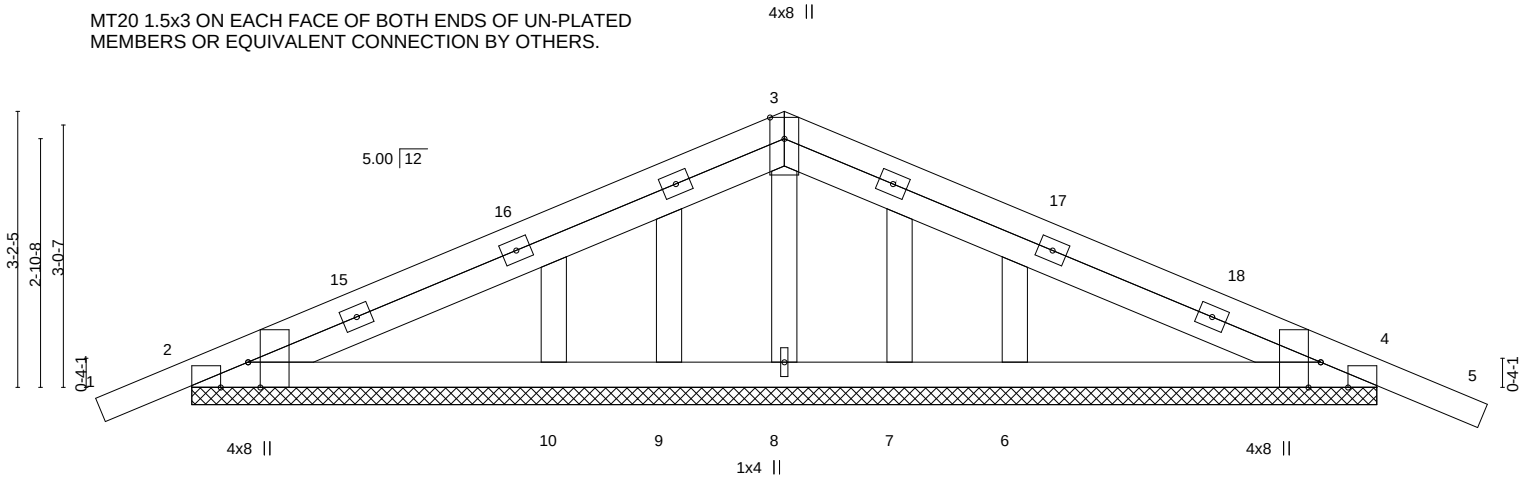
-1-0-0 6-10-4 13-8-8 14-10-8
1-0-0 6-10-4 6-10-4 1-2-0

Scale = 1:26.7

MT20 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.



6-10-4 13-8-8
6-10-4 6-10-4

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-3-13,Edge], [4:0-3-8,Edge], [4:0-3-13,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.01	5	n/r	120	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	0.02	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 60 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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

REACTIONS. All bearings 13-8-8.
(lb) - Max Horz 2=-46(LC 32)
Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 7 except 2=-336(LC 35), 4=-344(LC 36)
Max Grav All reactions 250 lb or less at joint(s) 9, 10, 7, 6 except 2=431(LC 44), 4=445(LC 33), 8=512(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-748/711, 3-4=-721/725
BOT CHORD 2-10=-591/614, 9-10=-225/276, 6-7=-225/276, 4-6=-591/614
WEBS 3-8=-456/212

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-11 to 1-11-5, Interior(1) 1-11-5 to 6-10-4, Exterior(2R) 6-10-4 to 9-10-4, Interior(1) 9-10-4 to 14-11-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 7 except (jt=lb) 2=336, 4=344.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 1200 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 13-8-8 for 87.5 plf.

Registered Professional Engineer (Civil) CERTIFICATE NO. 74609 DUSTIN REINMUTH Date Signed ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

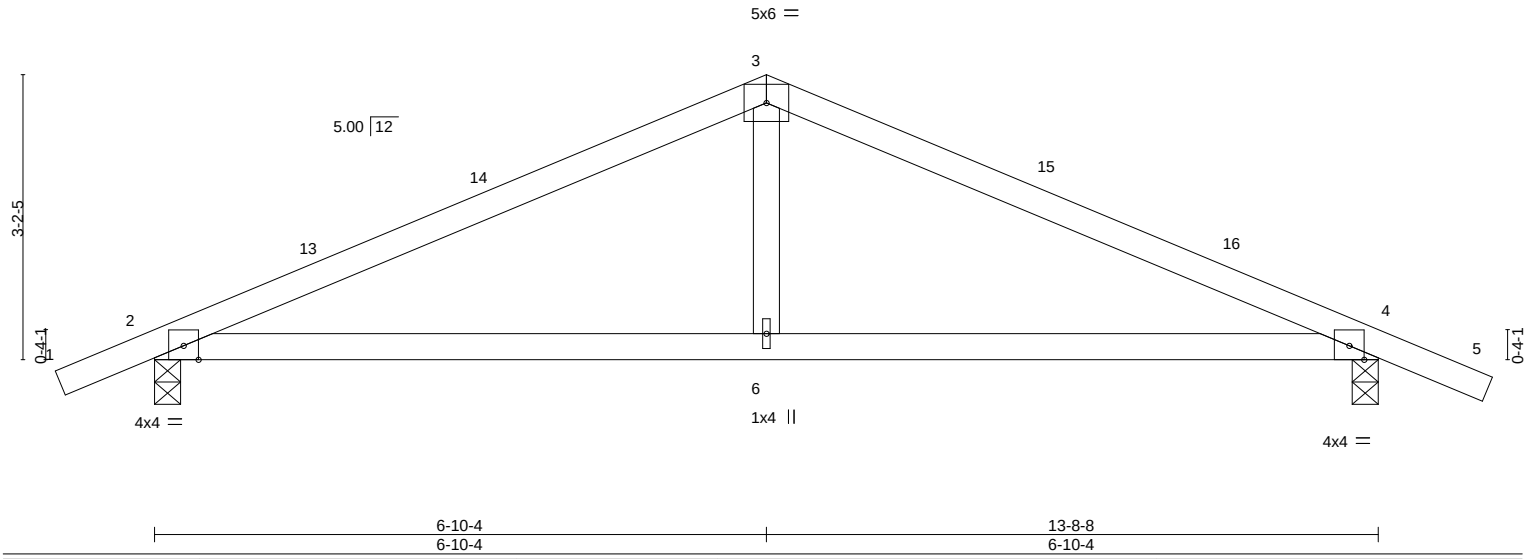
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	D2	Common	2	1	R73704702
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:40 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-TnwdTEeWbrU5JCSJk2SzHuCaPo1MyV0bBvcG4NyE44j

-1-0-0 6-10-4 13-8-8 14-10-8
1-0-0 6-10-4 6-10-4 1-2-0

Scale = 1:25.8



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.05	6-9	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.13	6-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.05	6-9	>999	240	Weight: 39 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-48(LC 10)
Max Uplift 2=-93(LC 12), 4=-101(LC 12)
Max Grav 2=674(LC 1), 4=687(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-954/291, 3-4=-971/289
BOT CHORD 2-6=-151/831, 4-6=-151/831
WEBS 3-6=0/328

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-11 to 1-11-5, Interior(1) 1-11-5 to 6-10-4, Exterior(2R) 6-10-4 to 9-10-4, Interior(1) 9-10-4 to 14-11-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	D3G	Hip Girder	1	2	R73704703
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:42 2022 Page 1
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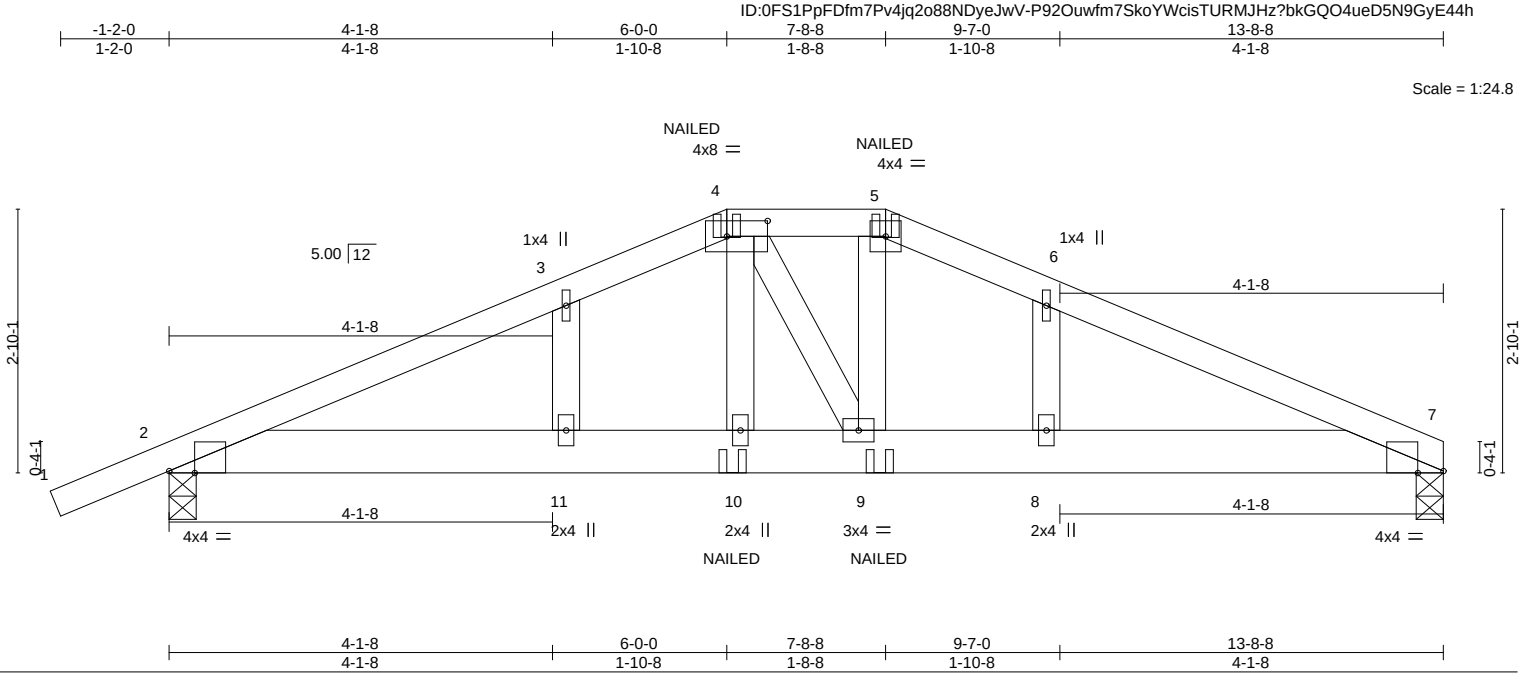

Plate Offsets (X,Y)-- [2:0-3-5,Edge], [4:0-5-4,0-2-0], [7:0-3-5,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.03	11	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.08	11-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.03	8	>999	240	Weight: 108 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=44(LC 26)
Max Uplift 7=-141(LC 8), 2=-190(LC 8)
Max Grav 7=1241(LC 1), 2=1332(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2498/286, 3-4=-2452/317, 4-5=-2334/316, 5-6=-2476/325, 6-7=-2521/294
BOT CHORD 2-11=-222/2269, 10-11=-222/2269, 9-10=-227/2309, 8-9=-230/2291, 7-8=-230/2291
WEBS 4-10=-89/752, 5-9=-102/731

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 380 lb down and 68 lb up at 4-0-12, and 380 lb down and 68 lb up at 9-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

EXPIRES: 12/31/2024
November 30,2022

Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-68, 4-5=-68, 5-7=-68, 2-7=-20
   Concentrated Loads (lb)
   Vert: 4=-33(B) 5=-33(B) 10=-229(B) 9=-229(B) 11=-380 8=-380

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	D3GC	HALF HIP GIRDER	1	2	R73704704
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:44 2022 Page 1
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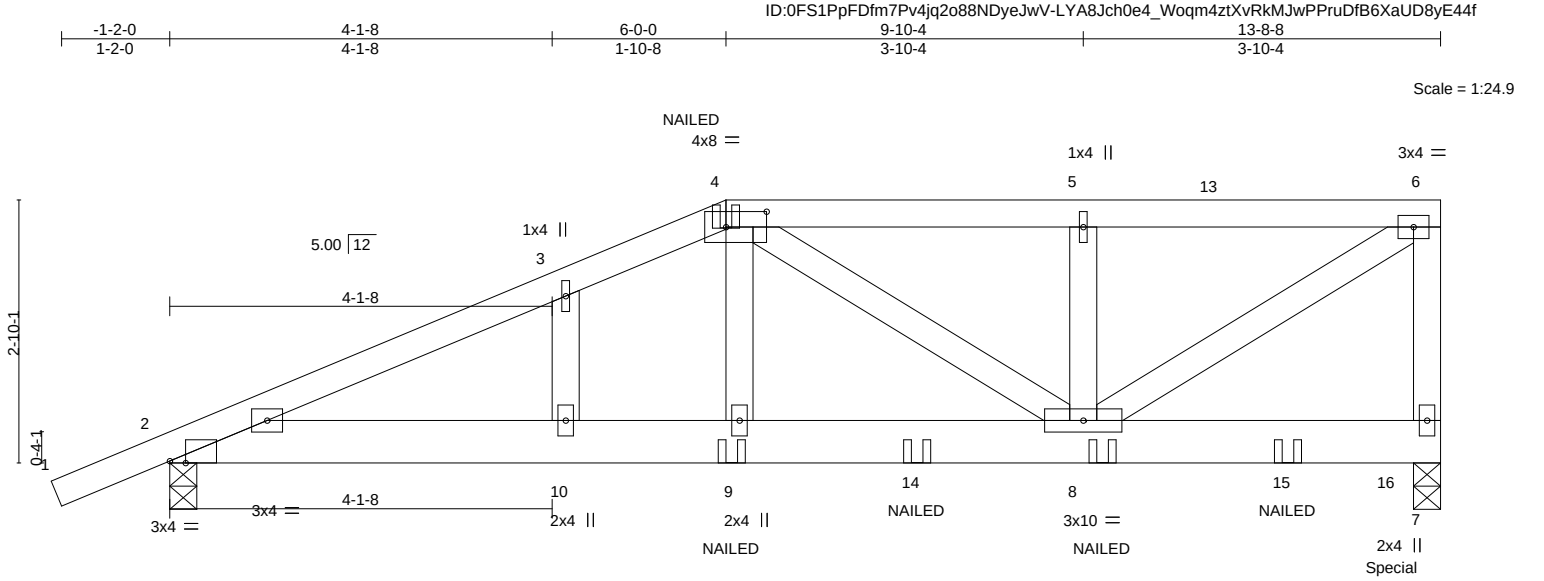

Plate Offsets (X,Y)-- [2:0-2-1,Edge], [4:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.03	10	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.08	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.03	10	>999	240	Weight: 121 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=105(LC 5)
Max Uplift 7=-287(LC 5), 2=-195(LC 8)
Max Grav 7=1574(LC 1), 2=1275(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2348/300, 3-4=-2298/328, 4-5=-1620/280, 5-6=-1620/280, 6-7=-1166/229
BOT CHORD 2-10=-337/2129, 9-10=-337/2129, 8-9=-342/2185
WEBS 4-9=-120/942, 4-8=-670/70, 5-8=-258/151, 6-8=-330/1891

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 380 lb down and 68 lb up at 4-0-12, and 244 lb down and 54 lb up at 13-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

EXPIRES: 12/31/2024
November 30,2022

Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-68, 4-6=-68, 2-7=-20
   Concentrated Loads (lb)
   Vert: 4=-33(B) 9=-229(B) 8=-229(B) 10=-380 14=-229(B) 15=-229(B) 16=-244(B)

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	D4	ROOF SPECIAL	1	1	R73704705
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:45 2022 Page 1
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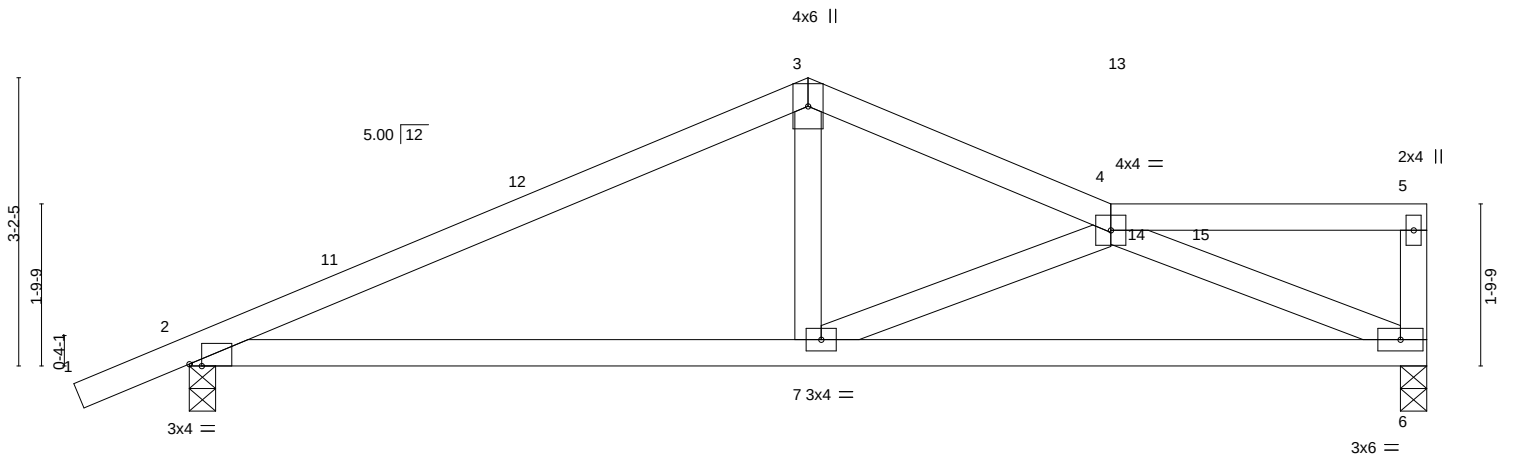
-1-2-0 | 6-10-4 | 10-2-8 | 13-8-8
1-2-0 | 6-10-4 | 3-4-4 | 3-6-0

Scale = 1:25.5



6-10-4 | 13-8-8
6-10-4 | 6-10-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.05	7-10	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.14	7-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.06	7-10	>999	240	Weight: 46 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=86(LC 11)
Max Uplift 2=-101(LC 12), 6=-53(LC 12)
Max Grav 2=684(LC 1), 6=593(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-913/263, 3-4=-872/278
BOT CHORD 2-7=-262/790, 6-7=-354/975
WEBS 3-7=0/355, 4-6=-1002/376

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 6-10-4, Exterior(2R) 6-10-4 to 9-10-4, Interior(1) 9-10-4 to 13-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil) CERTIFICATE NO. 74609 DUSTIN REINMUTH Date Signed ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	D5	ROOF SPECIAL	1	1	R73704706
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:47 2022 Page 1
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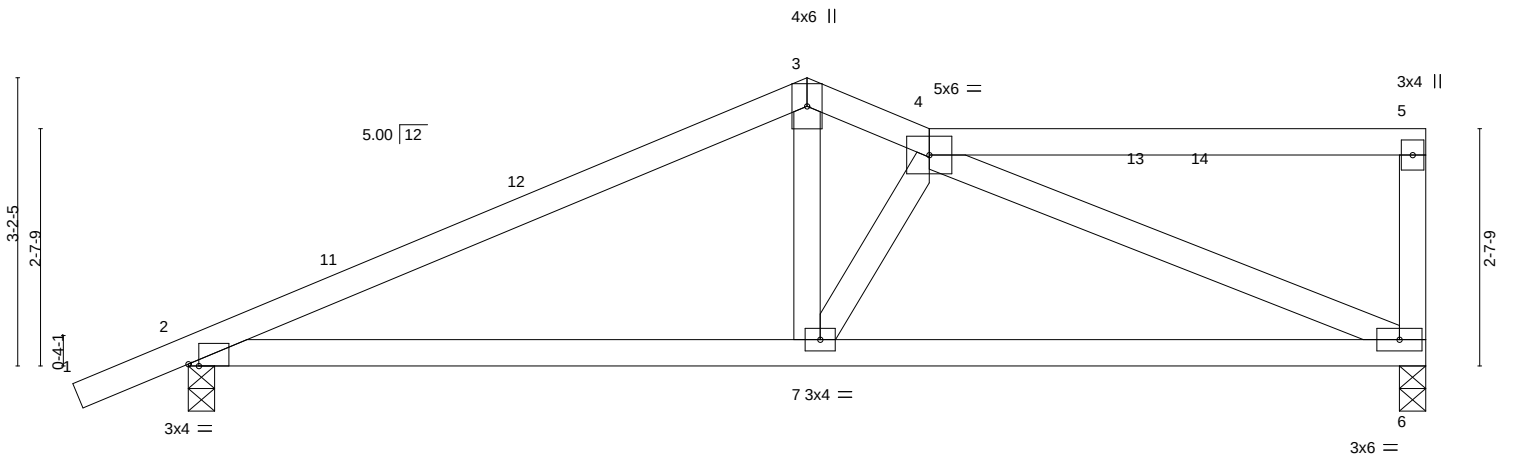
1-2-0	6-10-4	1-4-8	5-6-0

Scale = 1:25.5



6-10-4	13-8-8
6-10-4	6-10-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.05	7-10	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.14	7-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.06	7-10	>999	240	Weight: 48 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=107(LC 11)
Max Uplift 2=-100(LC 12), 6=-81(LC 9)
Max Grav 2=684(LC 1), 6=593(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-916/232, 3-4=-842/267
BOT CHORD 2-7=-301/793, 6-7=-328/864
WEBS 3-7=-12/359, 4-6=-874/317

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 6-10-4, Exterior(2E) 6-10-4 to 8-2-8, Interior(1) 8-2-8 to 13-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
74609
DUSTIN
REINMUTH
Date Signed
ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	D6	HALF HIP	1	1	R73704707
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:49 2022 Page 1
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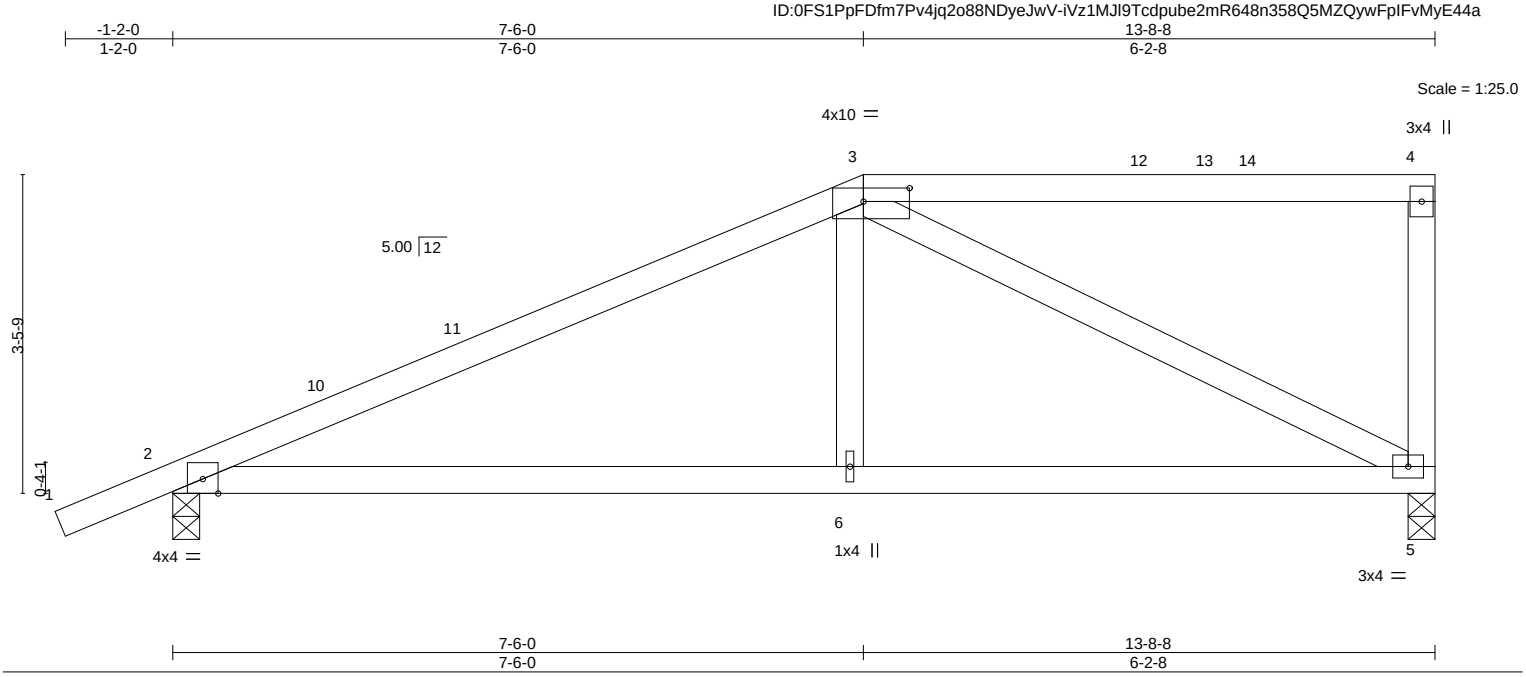

Plate Offsets (X,Y)-- [3:0-6-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	-0.06	6-9	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.18	6-9	>918	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.07	6-9	>999	240	Weight: 48 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 5=0-3-8
Max Horz 2=131(LC 11)
Max Uplift 2=-99(LC 12), 5=-95(LC 9)
Max Grav 2=684(LC 1), 5=593(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-867/180
BOT CHORD 2-6=-258/743, 5-6=-261/735
WEBS 3-6=0/320, 3-5=-786/247

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 7-6-0, Exterior(2R) 7-6-0 to 11-8-15, Interior(1) 11-8-15 to 13-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	HJ4	Jack-Closed	3	1	R73704708
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:50 2022 Page 1
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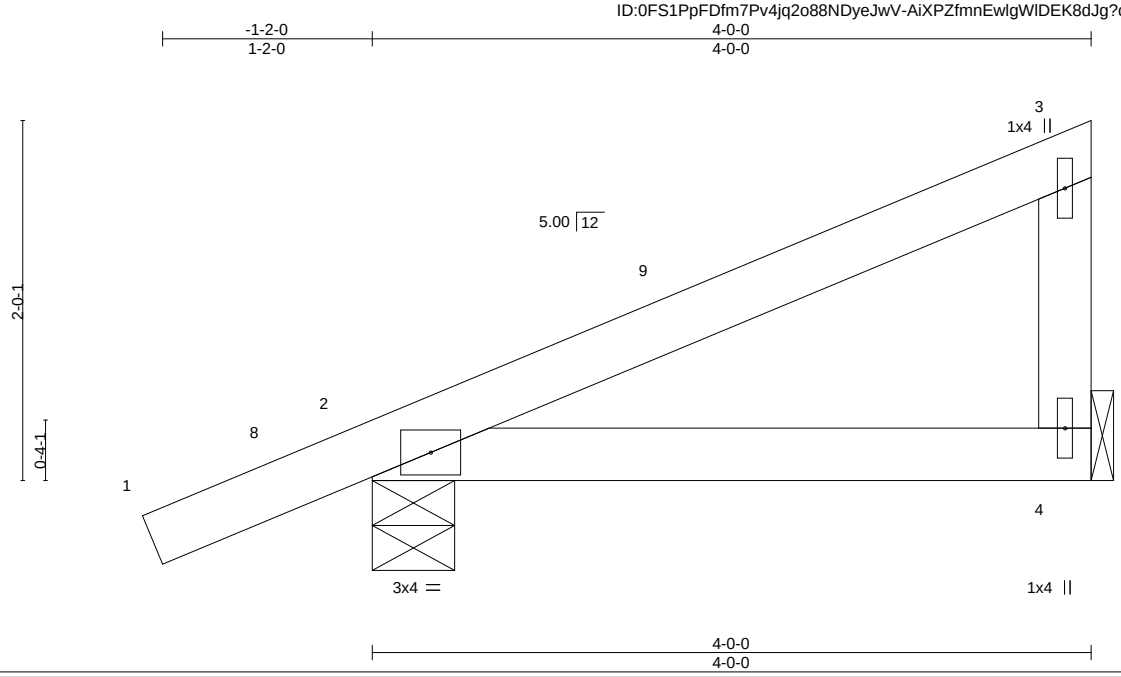

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	-0.01	4-7	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.02	4-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.01	4-7	>999	240	Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-5-8, 4=Mechanical
Max Horz 2=76(LC 12)
Max Uplift 2=-57(LC 12), 4=-18(LC 12)
Max Grav 2=266(LC 1), 4=156(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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 3-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
6) Two SBP6 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	HJ6	Jack-Closed	2	1	R73704709
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:51 2022 Page 1
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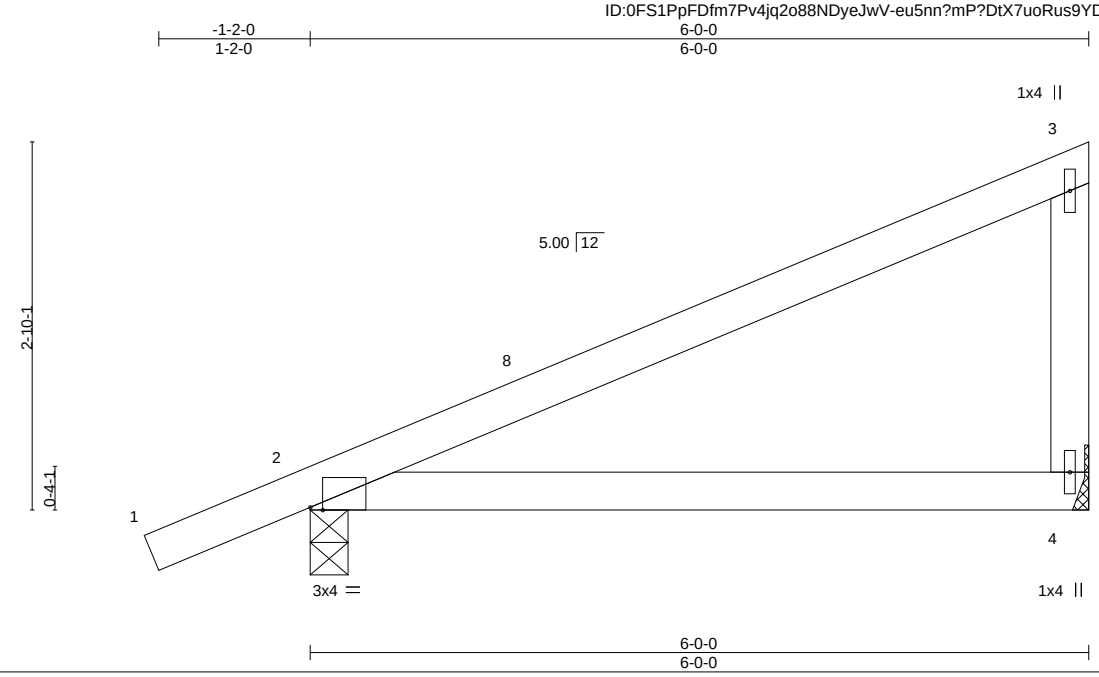

Plate Offsets (X,Y)-- [2:0-1-2,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.04	4-7	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.12	4-7	>605	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.06	4-7	>999	240	Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 4=Mechanical
Max Horz 2=103(LC 12)
Max Uplift 2=-57(LC 12), 4=-35(LC 12)
Max Grav 2=349(LC 1), 4=249(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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 5-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	HJ6A	Jack-Closed	1	1	R73704710
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:53 2022 Page 1
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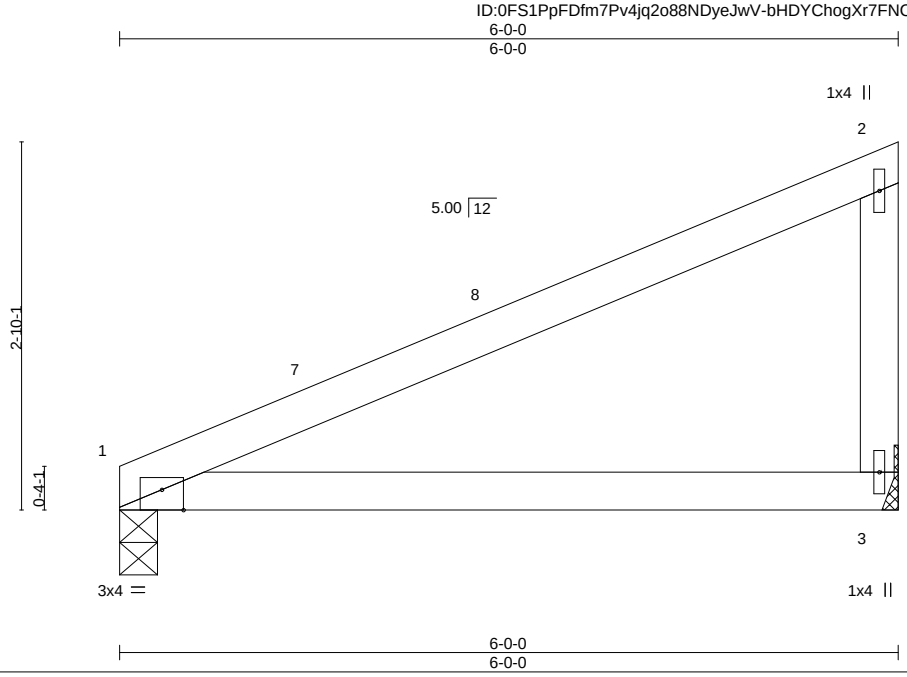

Scale = 1:17.8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.04	3-6	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.12	3-6	>577	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.07	3-6	>999	240	Weight: 17 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=0-3-8, 3=Mechanical
Max Horz 3=78(LC 12)
Max Uplift 1=-7(LC 12), 3=-40(LC 12)
Max Grav 1=258(LC 1), 3=258(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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil) CERTIFICATE NO. 74609 DUSTIN REINMUTH Date Signed ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	HJ8	Jack-Closed	6	1	R73704711
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:54 2022 Page 1
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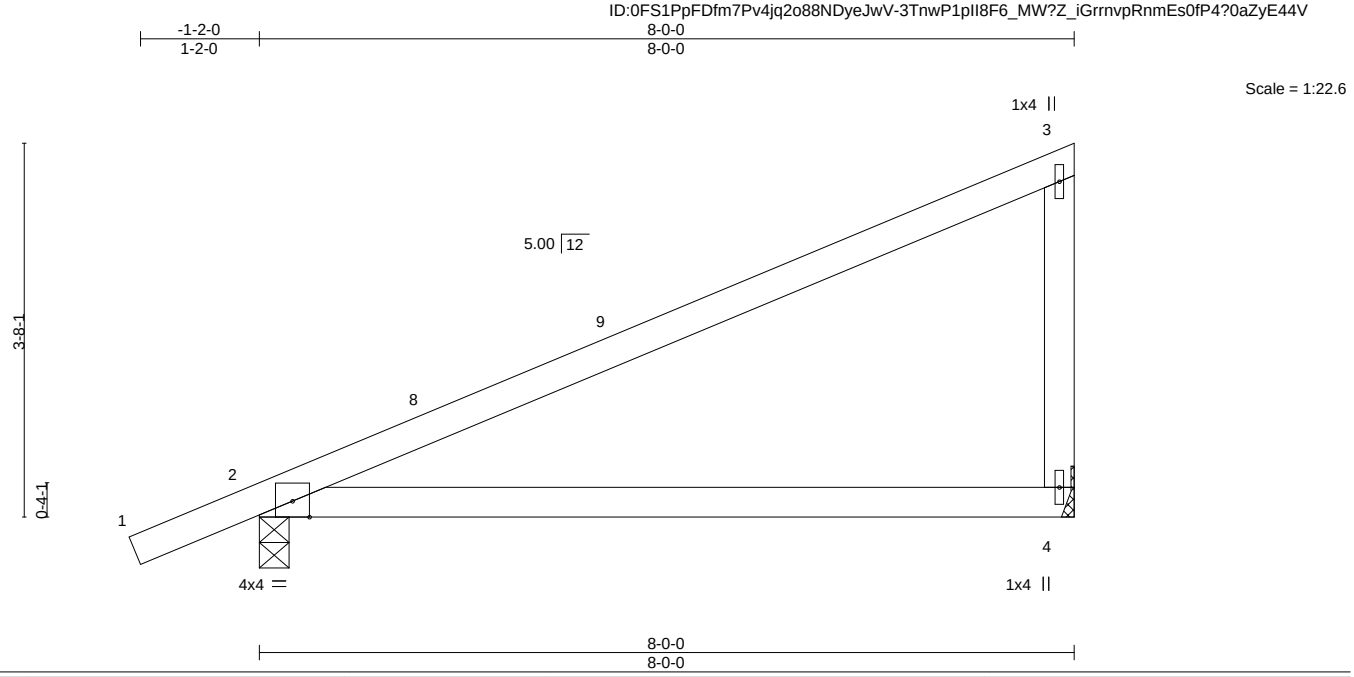

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.13	4-7	>726	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.37	4-7	>253	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.15	4-7	>629	240	Weight: 24 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 4=Mechanical
Max Horz 2=130(LC 12)
Max Uplift 2=-58(LC 12), 4=-50(LC 12)
Max Grav 2=435(LC 1), 4=339(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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 7-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	HJ8A	Jack-Closed	1	1	R73704712
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:56 2022 Page 1

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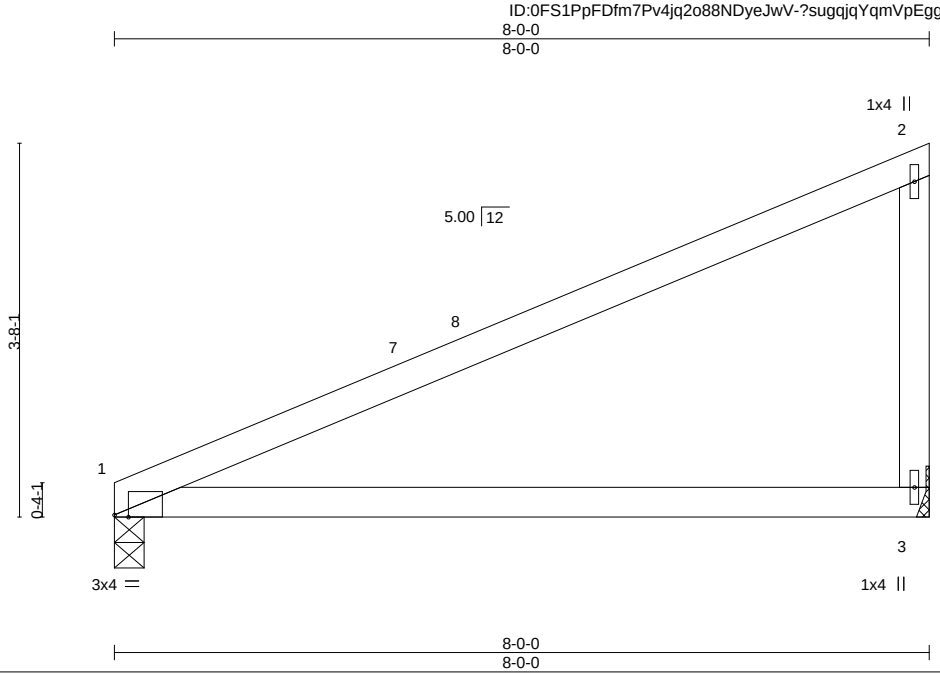

Plate Offsets (X,Y)-- [1:0-1-10,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.13	3-6	>726	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.38	3-6	>247	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.16	3-6	>594	240	Weight: 23 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=0-3-8, 3=Mechanical
Max Horz 1=105(LC 12)
Max Uplift 1=-9(LC 12), 3=-54(LC 12)
Max Grav 1=346(LC 1), 3=346(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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
6) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	J1	JACK-OPEN	1	1	R73704713
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:57 2022 Page 1
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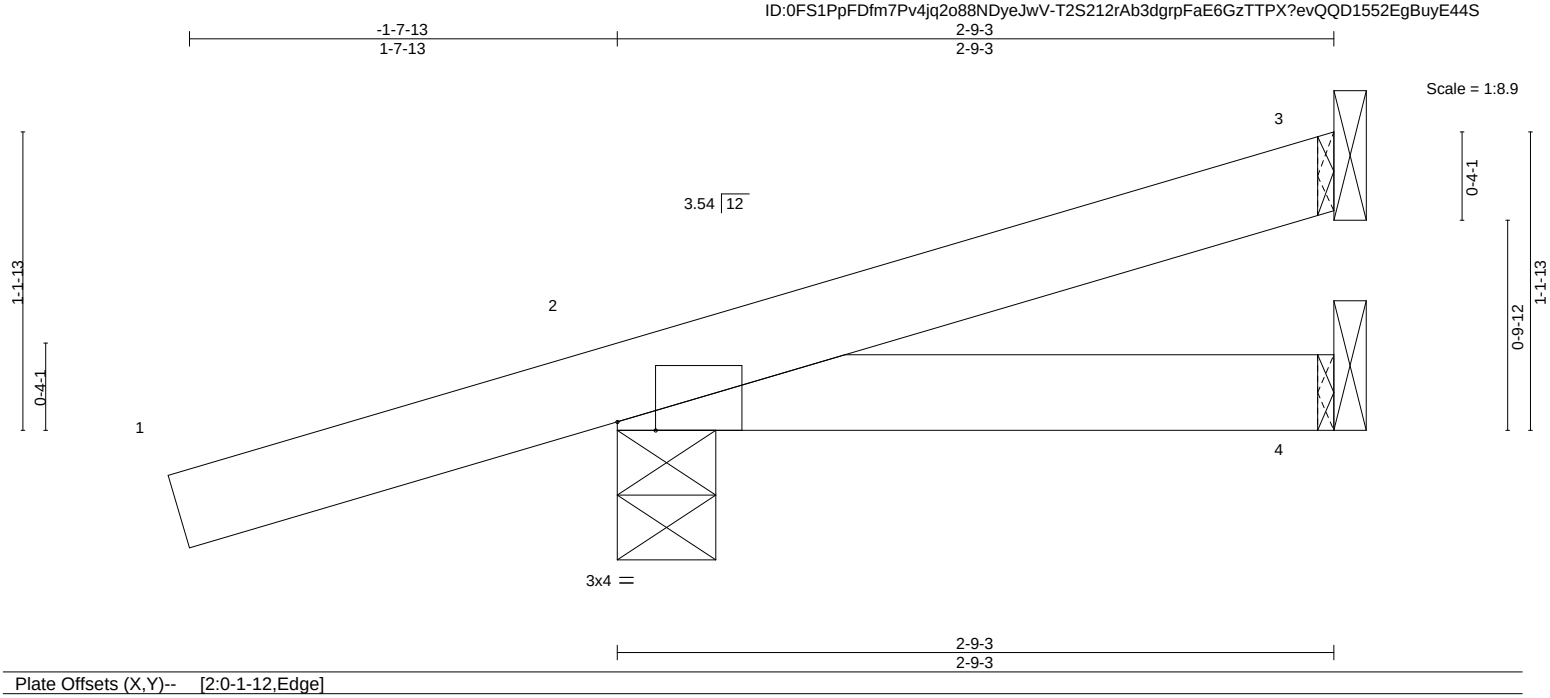

Plate Offsets (X,Y)-- [2:0-1-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	-0.00	7	>999	360	MT20	197/144
TCDL	18.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.00	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP		Wind(LL)	-0.00	7	>999	240	Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=50(LC 12)
Max Uplift 3=-10(LC 12), 2=-90(LC 12)
Max Grav 3=65(LC 1), 2=299(LC 1), 4=43(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

EXPIRES: 12/31/2024
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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	JG1	JACK-CLOSED GIRDER	1	1	R73704714
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:38:59 2022 Page 1
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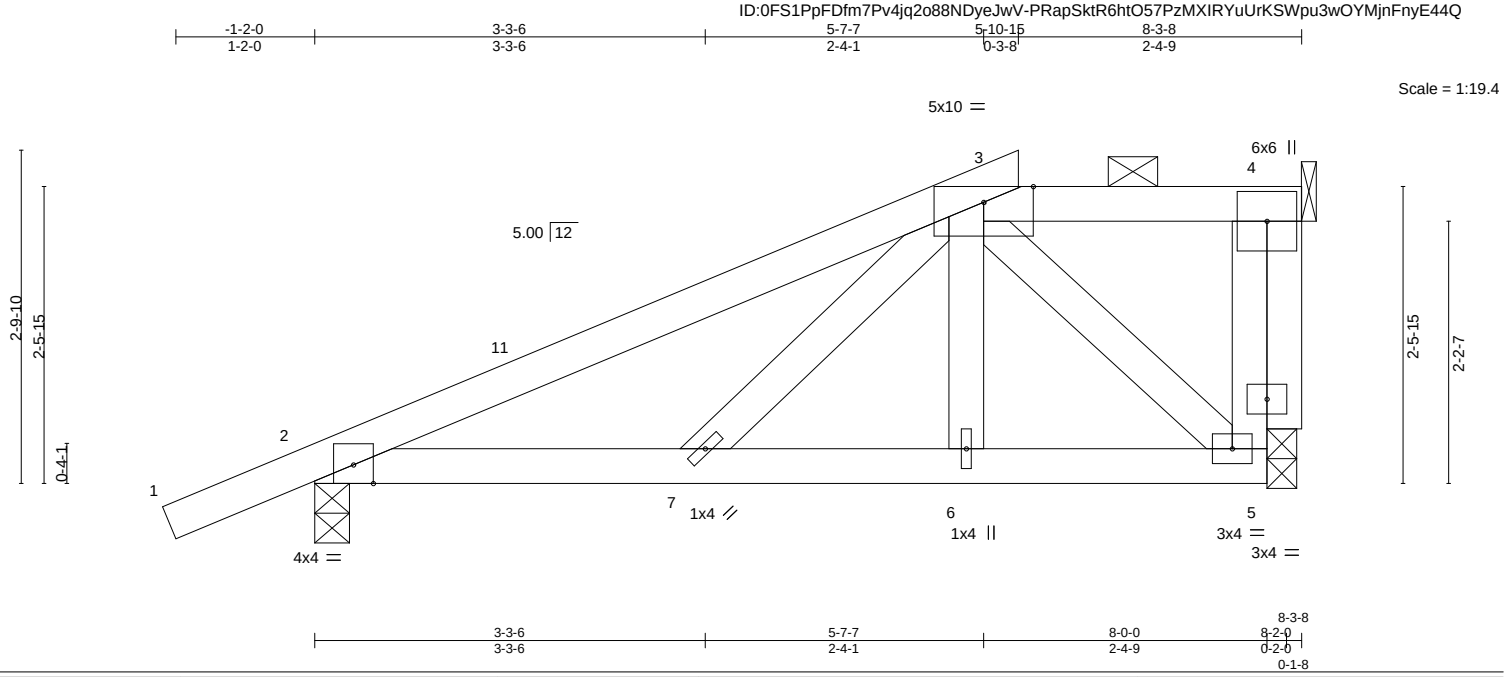

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.01	7-10	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.03	7-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.02	7-10	>999	240	Weight: 34 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std
OTHERS	2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 5=0-3-0, 4=Mechanical
Max Horz 2=96(LC 11)
Max Uplift 2=-98(LC 12), 5=-116(LC 9), 4=-36(LC 8)
Max Grav 2=647(LC 1), 5=844(LC 19), 4=77(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1039/354
BOT CHORD 2-7=-416/942, 6-7=-345/782, 5-6=-353/780
WEBS 3-5=-1112/478

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 5-9-0, Exterior(2E) 5-9-0 to 8-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=116.
10) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 822 lb down and 317 lb up at 5-9-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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LOAD CASE(S) Standard

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-68, 3-4=-68, 5-8=-20
   Concentrated Loads (lb)
   Vert: 3=-731

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	JG2	JACK-CLOSED GIRDER	2	1	R73704715
					Job Reference (optional)

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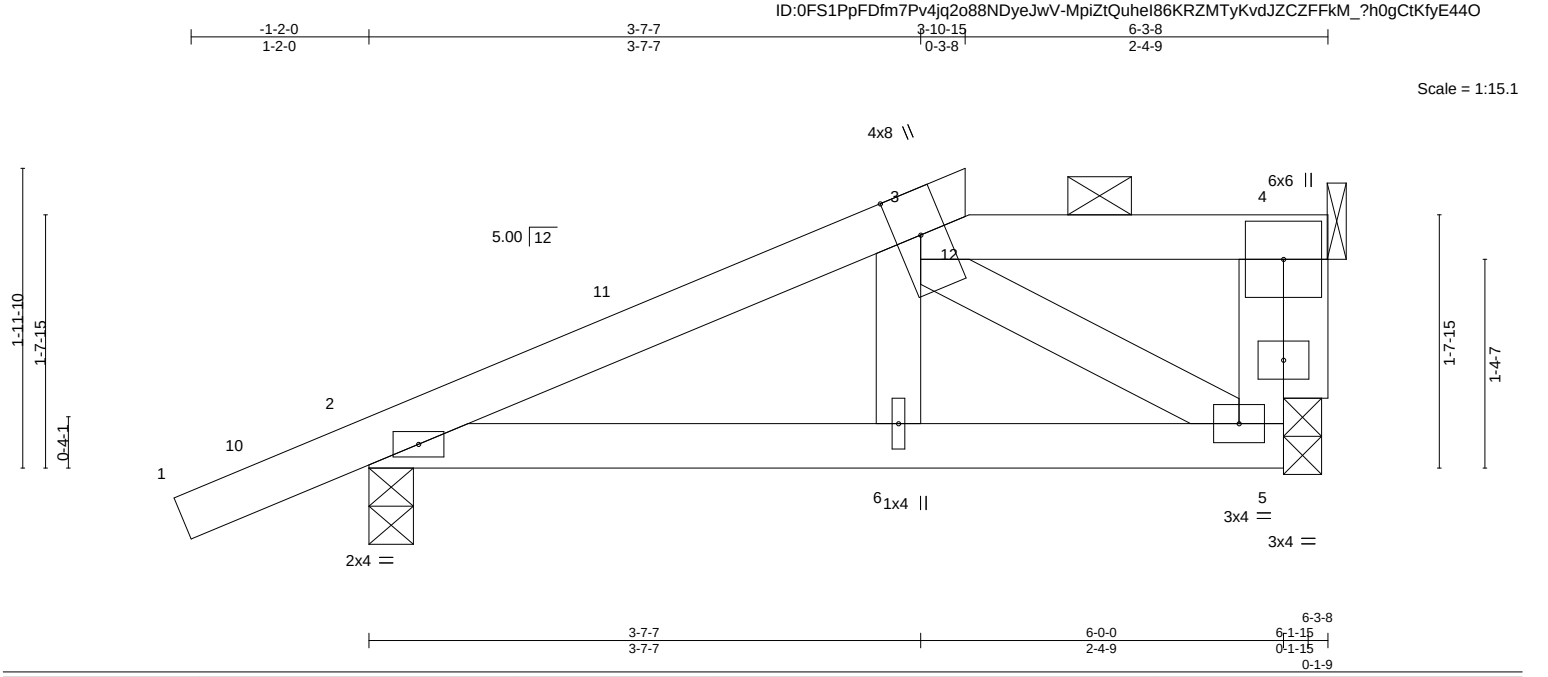

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.01	6	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.02	6-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.01	6-9	>999	240	Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 5=0-3-0, 4=Mechanical
Max Horz 2=61(LC 11)
Max Uplift 2=-87(LC 12), 5=-48(LC 9), 4=-48(LC 8)
Max Grav 2=508(LC 1), 5=418(LC 19), 4=142(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-767/322
BOT CHORD 2-6=-367/730, 5-6=-369/725
WEBS 3-5=-810/403

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 3-7-1, Exterior(2E) 3-7-1 to 6-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
10) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 493 lb down and 220 lb up at 3-11-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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LOAD CASE(S) Standard

Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-68, 3-4=-68, 5-7=-20
   Concentrated Loads (lb)
   Vert: 12=-438

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	K1E	GABLE	1	1	R73704716
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:04 2022 Page 1
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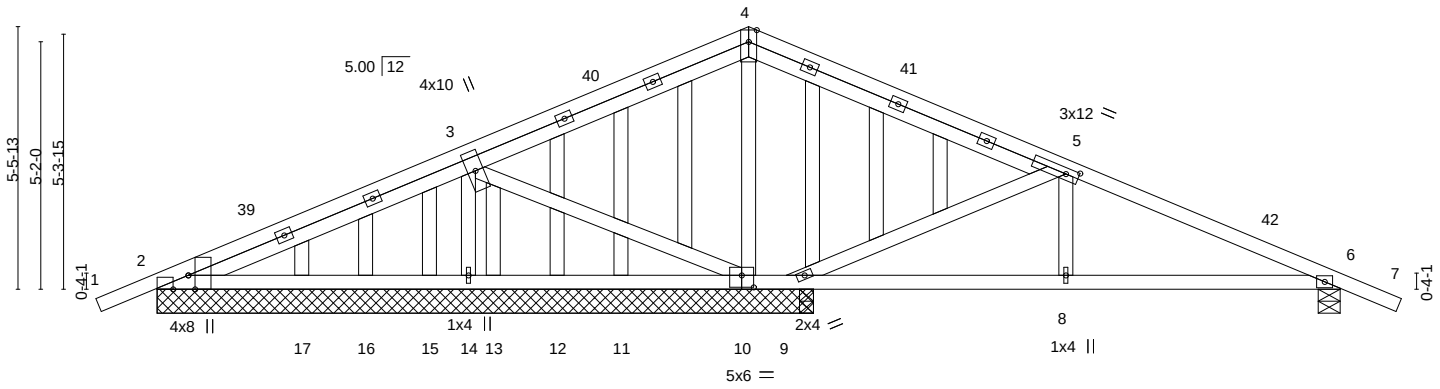
4x8 ||

Scale: 1/4"=1'

MT20 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.



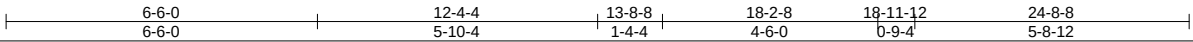


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-3-13,Edge], [5:0-3-4,0-1-8], [10:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.02	8-38	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.06	8-38	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.02	8-38	>999	240	Weight: 136 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std
OTHERS	2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS. All bearings 13-8-8 except (jt=length) 6=0-5-8.
(lb) - Max Horz 2=78(LC 33)
Max Uplift All uplift 100 lb or less at joint(s) 16, 17 except 2=-244(LC 35), 10=-314(LC 36), 14=-315(LC 35), 6=-303(LC 36)
Max Grav All reactions 250 lb or less at joint(s) 11, 12, 13, 15, 16, 17, 2 except 2=286(LC 44), 10=691(LC 1), 14=391(LC 32), 6=511(LC 33), 9=488(LC 3), 9=415(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-405/488, 3-4=-386/607, 4-5=-203/407, 5-6=-877/584
BOT CHORD 2-17=-485/433, 16-17=-406/348, 15-16=-335/289, 14-15=-277/225, 9-10=-356/216, 8-9=-223/558, 6-8=-469/780
WEBS 4-10=-629/211, 3-10=-458/350, 3-14=-413/348, 5-9=-777/164

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; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 12-4-4, Exterior(2R) 12-4-4 to 15-4-4, Interior(1) 15-4-4 to 25-11-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 17 except (jt=lb) 2=244, 14=315, 2=244.
9) n/a
10) n/a
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 1200 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 24-8-8 for 48.6 plf.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	K2	Common	2	1	R73704717
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:07 2022 Page 1
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-1-2-0 | 6-6-0 | 12-4-4 | 18-2-8 | 24-8-8 | 25-10-8
1-2-0 | 6-6-0 | 5-10-4 | 5-10-4 | 6-6-0 | 1-2-0

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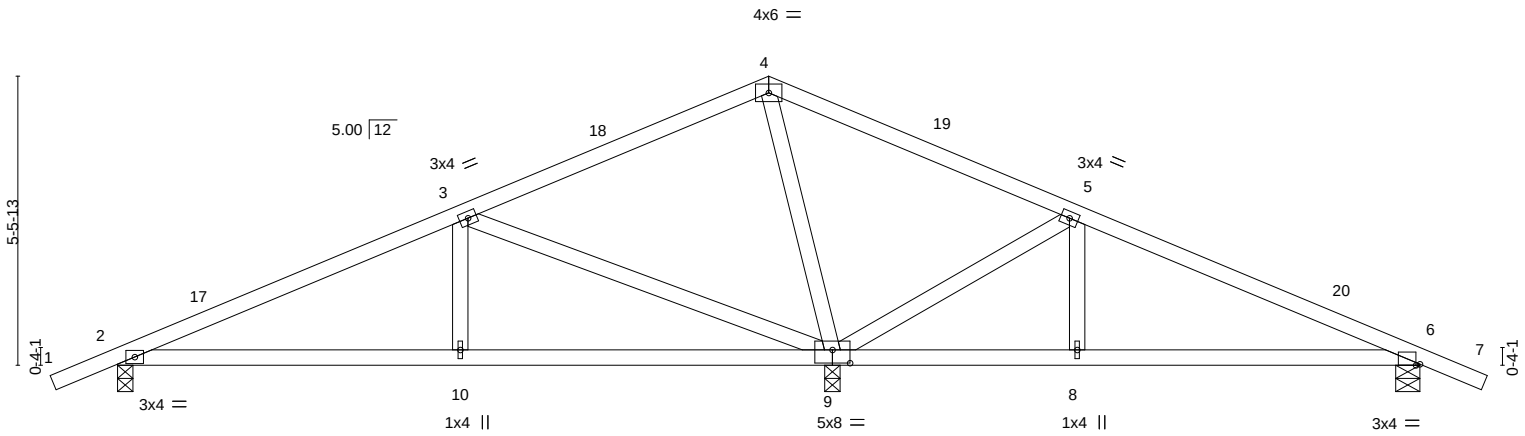

6-6-0 | 13-6-12 | 18-2-8 | 24-8-8
6-6-0 | 7-0-12 | 4-7-12 | 6-6-0

Plate Offsets (X,Y)-- [6:0-0-14,Edge], [9:0-4-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL 1.25	TC	0.34	Vert(LL)	-0.04	9-10	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL 1.25	BC	0.29	Vert(CT)	-0.11	8-16	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.99	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.03	10-13	>999	240	Weight: 88 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 9=0-3-8, 6=0-5-8
Max Horz 2=81(LC 11)
Max Uplift 2=-94(LC 12), 9=-112(LC 12), 6=-83(LC 12)
Max Grav 2=546(LC 23), 9=1432(LC 1), 6=424(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-622/111, 3-4=0/397, 4-5=-14/565, 5-6=-304/68
BOT CHORD 2-10=-19/533, 9-10=-19/533
WEBS 4-9=-686/135, 5-9=-707/170, 3-9=-848/166, 3-10=0/304

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; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 12-4-4, Exterior(2R) 12-4-4 to 15-4-4, Interior(1) 15-4-4 to 25-11-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
6) Two SBP6 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	K3G	Hip Girder	1	2	R73704718
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:09 2022 Page 1
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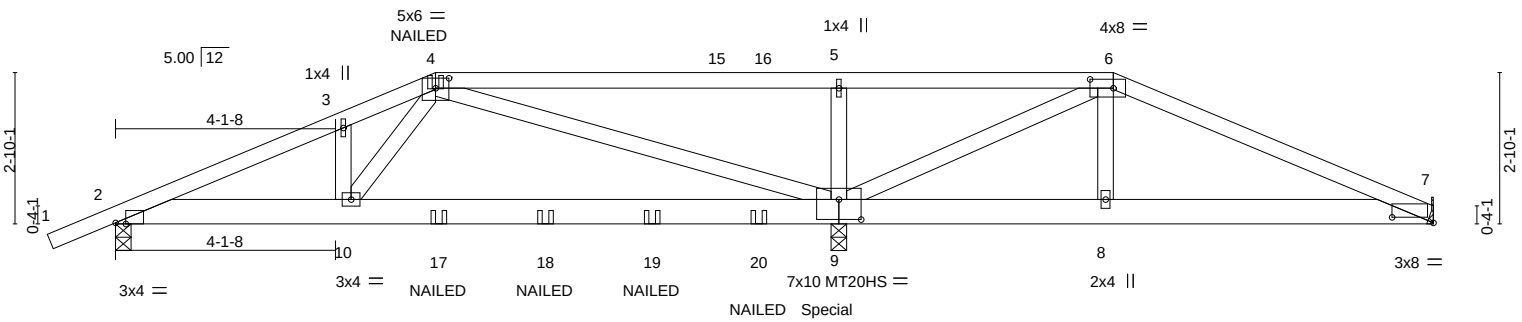

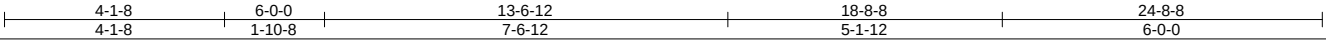

Plate Offsets (X,Y)-- [2:0-2-5,Edge], [4:0-3-0,0-2-4], [6:0-5-4,0-2-0], [7:0-9-5,0-1-4], [9:0-5-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.06	9-10	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.18	9-10	>926	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.07	9-10	>999	240	Weight: 200 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 7=Mechanical, 2=0-3-8, 9=0-3-8
Max Horz 2=44(LC 7)
Max Uplift 7=-107(LC 27), 2=-176(LC 8), 9=-326(LC 8)
Max Grav 7=395(LC 14), 2=1132(LC 19), 9=2370(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2671/327, 3-4=-2587/348, 4-5=-0/282, 5-6=-0/282, 6-7=-514/292
BOT CHORD 2-10=-258/2406, 9-10=-201/1583, 8-9=-224/426, 7-8=-219/416
WEBS 4-9=-1952/261, 5-9=-517/171, 6-9=-614/184, 4-10=-154/1432

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=107.
11) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 380 lb down and 68 lb up at 4-0-12, and 238 lb down and 60 lb up at 13-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-4=-68, 4-6=-68, 6-7=-68, 2-7=-20
   Concentrated Loads (lb)
      Vert: 4=-33(B) 9=-238(B) 10=-380 17=-229(B) 18=-229(B) 19=-229(B) 20=-229(B)

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	K4	ROOF SPECIAL	1	1	R73704719
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:11 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-3kILzr0yHNOhXzKH32WF1Q_qrHb8iM59JEdPg4yE44E

-1-2-0	8-0-0	13-6-12	16-8-8	21-2-8	24-8-8
1-2-0	8-0-0	5-6-12	3-1-12	4-6-0	3-6-0

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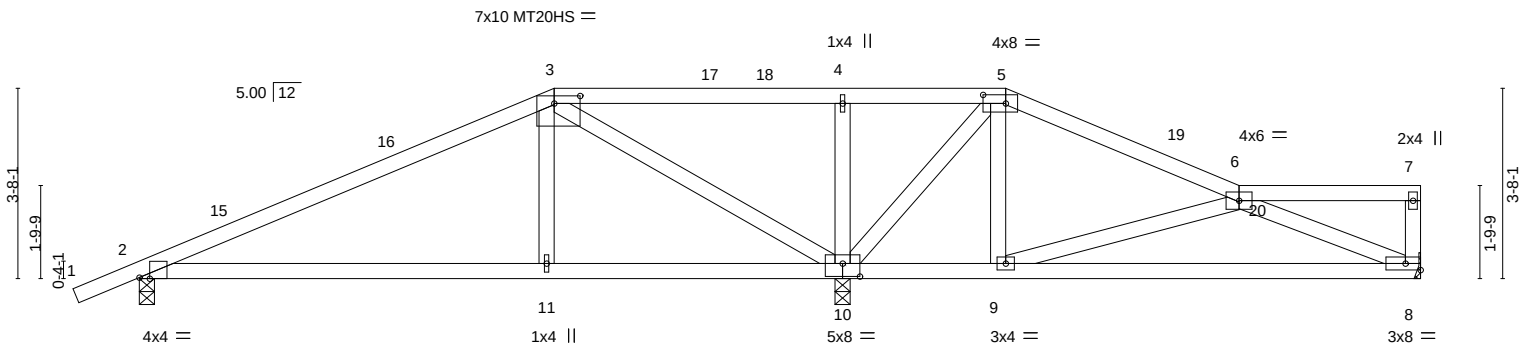

8-0-0	13-6-12	16-8-8	21-2-8	24-8-8
8-0-0	5-6-12	3-1-12	4-6-0	3-6-0

Plate Offsets (X,Y)-- [2:0-2-6,Edge], [3:0-6-0,0-1-12], [5:0-5-4,0-2-0], [10:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.09	8-9	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.23	11-14	>710	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.08	11-14	>999	240	Weight: 93 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 8=Mechanical, 2=0-3-8, 10=0-3-8
Max Horz 2=93(LC 11)
Max Uplift 8=-41(LC 9), 2=-88(LC 12), 10=-127(LC 12)
Max Grav 8=360(LC 24), 2=599(LC 23), 10=1314(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-603/87, 3-4=-50/388, 4-5=-50/388
BOT CHORD 2-11=-73/494, 10-11=-76/485, 8-9=-112/469
WEBS 3-11=0/330, 3-10=-963/192, 4-10=-319/112, 5-10=-665/97, 5-9=0/356, 6-9=-420/174, 6-8=-430/157

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; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 16-8-8, Exterior(2R) 16-8-8 to 19-8-8, Interior(1) 19-8-8 to 24-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
10) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	K5	ROOF SPECIAL	1	1	R73704720
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:13 2022 Page 1

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-1-2-0	5-3-14	10-0-0	13-6-12	14-8-8	19-2-8	24-8-8
1-2-0	5-3-14	4-8-2	3-6-12	1-1-12	4-6-0	5-6-0

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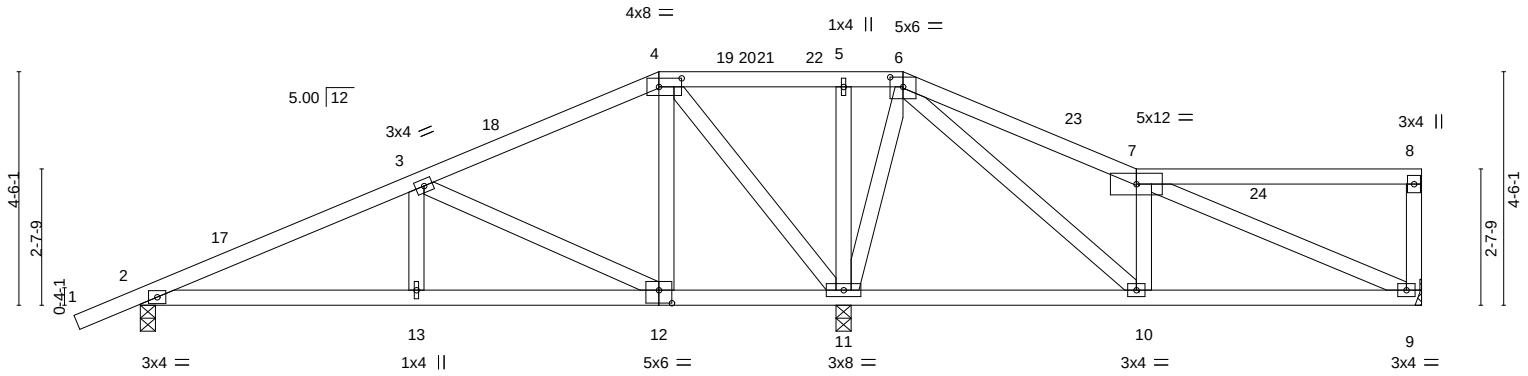

5-3-14	10-0-0	13-6-12	14-8-8	19-2-8	24-8-8
5-3-14	4-8-2	3-6-12	1-1-12	4-6-0	5-6-0

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [6:0-3-0,0-2-4], [12:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.02	10-11	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.05	13-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.02	13-16	>999	240	Weight: 105 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-

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

REACTIONS. (size) 9=Mechanical, 2=0-3-8, 11=0-3-8
Max Horz 2=126(LC 11)
Max Uplift 9=-59(LC 9), 2=-87(LC 12), 11=-129(LC 12)
Max Grav 9=307(LC 24), 2=539(LC 23), 11=1461(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-684/100, 4-5=-60/522, 5-6=-60/522, 6-7=-342/134
BOT CHORD 2-13=-150/597, 12-13=-150/597, 10-11=-362/108
WEBS 3-12=-615/136, 4-12=-12/367, 4-11=-776/168, 6-11=-611/151, 7-10=-382/169, 6-10=-141/729

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; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 14-8-8, Exterior(2R) 14-8-8 to 17-8-8, Interior(1) 17-8-8 to 24-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
9) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	K6	ROOF SPECIAL	1	1	R73704721
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:15 2022 Page 1

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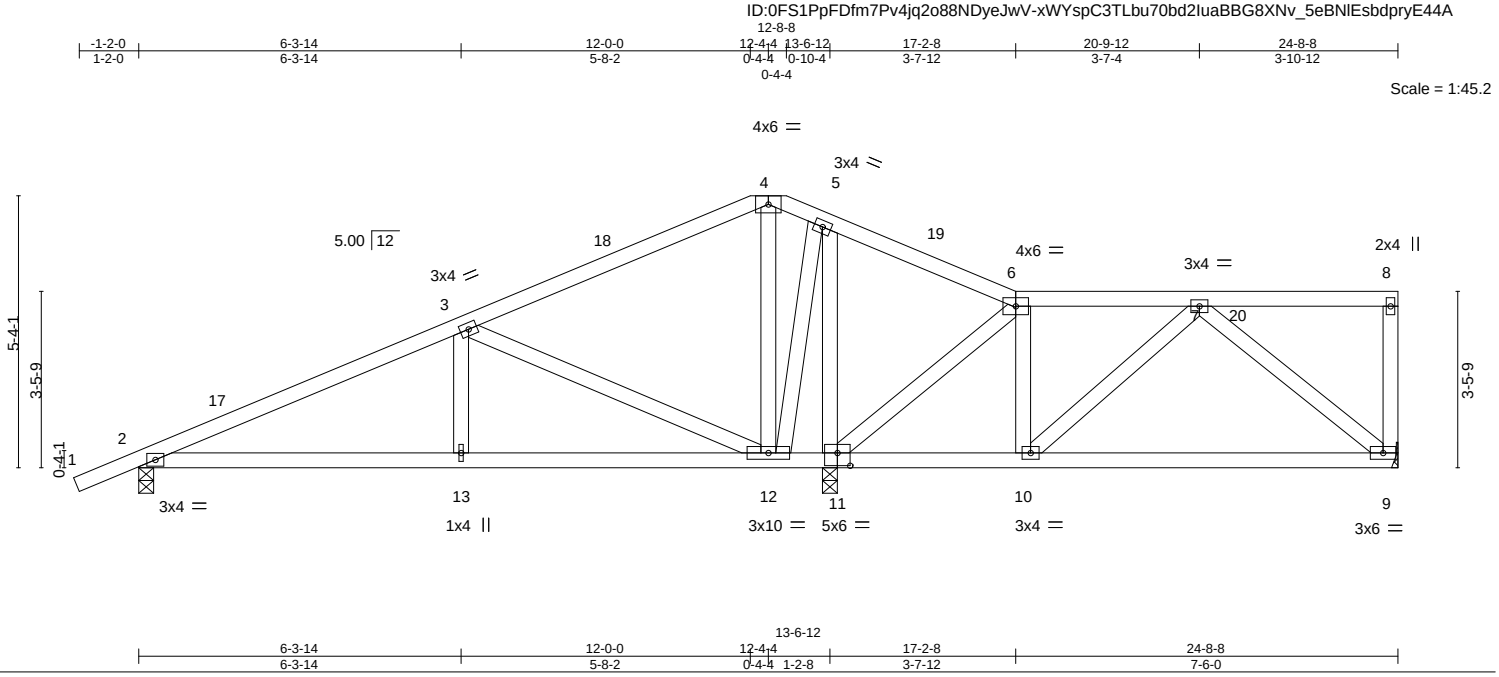

Plate Offsets (X,Y)-- [11:0-3-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.06	9-10	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.13	9-10	>989	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.03	13-16	>999	240	Weight: 108 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-

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

REACTIONS. (size) 9=Mechanical, 2=0-3-8, 11=0-3-8
Max Horz 2=159(LC 11)
Max Uplift 9=-76(LC 9), 2=-88(LC 12), 11=-126(LC 12)
Max Grav 9=372(LC 24), 2=596(LC 23), 11=1319(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-766/108, 5-6=-60/374
BOT CHORD 2-13=-179/668, 12-13=-179/668, 11-12=-279/117, 9-10=-103/251
WEBS 3-13=0/277, 5-11=-924/170, 6-11=-514/84, 6-10=0/308, 7-9=-291/110, 4-12=-294/125, 5-12=-114/686, 3-12=-799/171

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; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 12-4-4, Exterior(2R) 12-4-4 to 15-4-4, Interior(1) 15-4-4 to 24-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
9) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	MG1	Jack-Closed Girder	1	2	R73704722
					Job Reference (optional)

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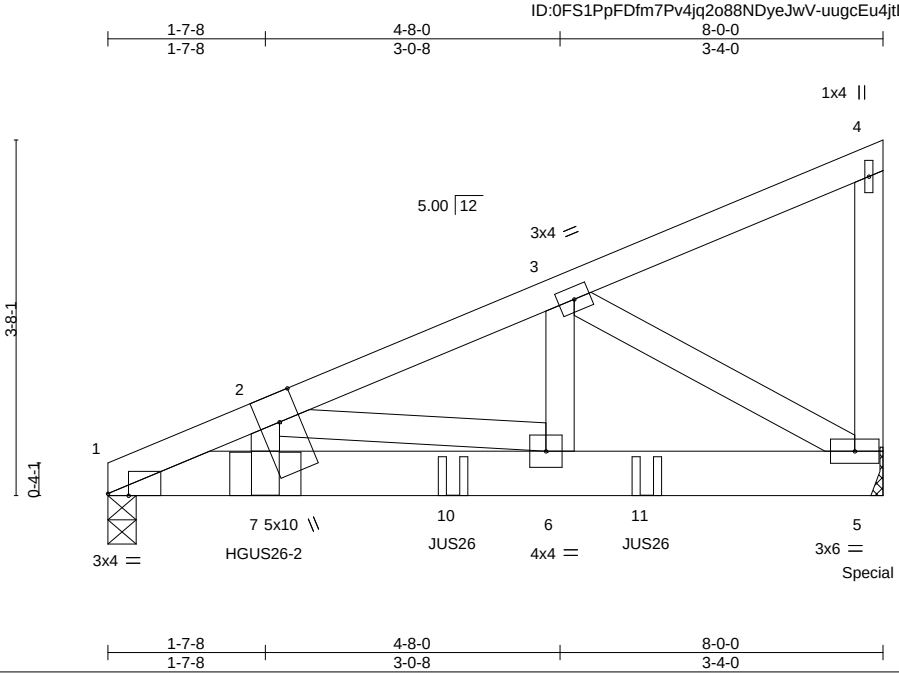

Plate Offsets (X,Y)-- [1:0-2-9,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	-0.01	6-7	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.03	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP		Wind(LL)	0.01	6-7	>999	240	Weight: 74 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

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

REACTIONS. (size) 1=0-3-8, 5=Mechanical
Max Horz 1=105(LC 23)
Max Uplift 1=-154(LC 8), 5=-237(LC 8)
Max Grav 1=856(LC 1), 5=1125(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1753/305, 2-3=-1153/167
BOT CHORD 1-7=-372/1615, 6-7=-372/1615, 5-6=-214/1048
WEBS 2-7=-98/306, 2-6=-623/162, 3-6=-117/786, 3-5=-1220/249

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) 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) except (jt=lb) 5=237.
8) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Use Simpson Strong-Tie HGUS26-2 (20-10d Girder, 6-10d Truss) or equivalent at 1-7-8 from the left end to connect truss(es) to front face of bottom chord.
11) 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 3-6-12 from the left end to 5-6-12 to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 359 lb down and 89 lb up at 7-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

LOAD CASE(S) Standard

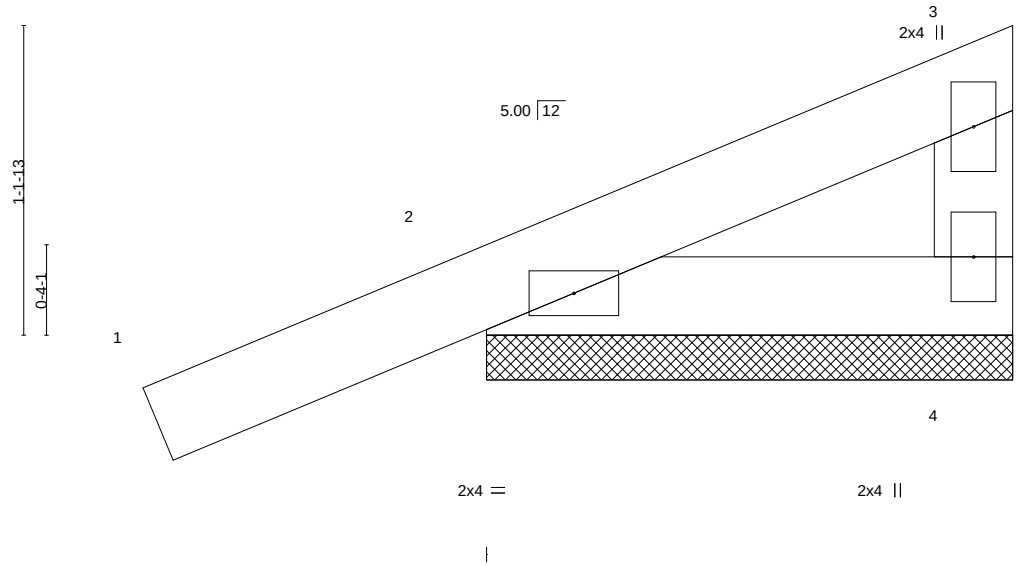
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-68, 1-5=-20
   Concentrated Loads (lb)
   Vert: 7=-304(F) 5=-359(F) 10=-340(F) 11=-287(F)

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	N1E	Monopitch Supported Gable	1	1	R73704723
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:18 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-M4D?SE5LeWHit2Mdz08upvm8764frjEBwppHQAyE447

-1-2-0 1-11-8
1-2-0 1-11-8

Scale = 1:8.6



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	0.00	1	n/r	120	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-11-8, 2=1-11-8
Max Horz 2=39(LC 9)
Max Uplift 4=-2(LC 9), 2=-69(LC 12)
Max Grav 4=54(LC 3), 2=191(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; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
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.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

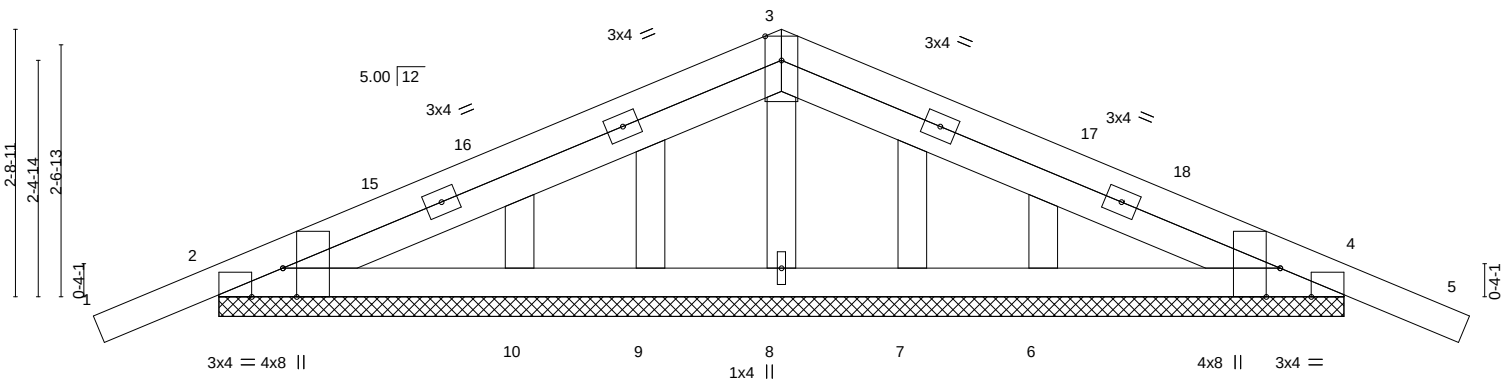
Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	P1E	GABLE	1	1	R73704724
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:20 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-ITLlsw7cA8XP6MW?4RAMuKsUnwlbJc9UN7IOV3yE445

-1-2-0 5-8-12 11-5-8 12-7-8
1-2-0 5-8-12 5-8-12 1-2-0

Scale = 1:23.5

MT20 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.



5-8-12 11-5-8
5-8-12 5-8-12

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-3-13,Edge], [4:0-3-8,Edge], [4:0-3-13,Edge]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	0.00	5	n/r	120	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 50 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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

REACTIONS. All bearings 11-5-8.
(lb) - Max Horz 2=39(LC 33)
Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 7 except 2=-297(LC 35), 4=-297(LC 36)
Max Grav All reactions 250 lb or less at joint(s) 9, 10, 7, 6 except 2=368(LC 44), 4=373(LC 33), 8=416(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-624/599, 3-4=-623/614
BOT CHORD 2-10=-492/513, 9-10=-225/268, 6-7=-225/268, 4-6=-492/513
WEBS 3-8=-373/194

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 5-8-12, Exterior(2R) 5-8-12 to 8-8-12, Interior(1) 8-8-12 to 12-8-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 7 except (jt=lb) 2=297, 4=297.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 1000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 11-5-8 for 87.3 plf.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

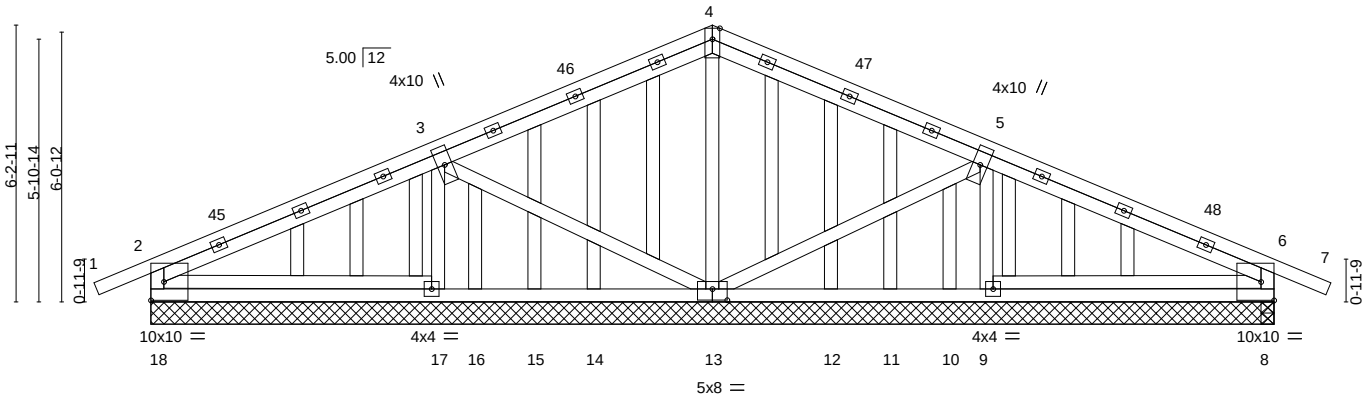
Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	P1EX	GABLE	1	1	R73704725
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:24 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-AEbGiHA6EM1rbzpmJHFI3A05BX4bFNW4IlGbeqyE441

-1-2-0 | 6-5-8 | 12-7-8 | 18-9-7 | 25-3-0 | 26-5-0
1-2-0 | 6-5-8 | 6-2-0 | 6-2-0 | 6-5-9 | 1-2-0

Scale = 1:51.8

MT20 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.



6-5-8 | 12-7-8 | 18-9-7 | 25-3-0
6-5-8 | 6-2-0 | 6-2-0 | 6-5-9

Plate Offsets (X,Y)-- [5:0-0-0,0-0-0], [5:0-0-0,0-0-0], [5:0-0-0,0-0-0], [13:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.03	8-9	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.07	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.00	17-18	>999	240	Weight: 182 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

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

REACTIONS. All bearings 25-3-0.
(lb) - Max Horz 18=-103(LC 31)
Max Uplift All uplift 100 lb or less at joint(s) 13 except 18=-251(LC 35), 17=-142(LC 35), 9=-143(LC 36), 8=-251(LC 36), 16=-198(LC 3), 10=-198(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 14, 15, 12, 11 except 18=393(LC 44), 17=605(LC 47), 13=459(LC 1), 9=605(LC 48), 8=399(LC 33), 8=381(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-486/379, 3-4=-383/333, 4-5=-382/342, 5-6=-484/379, 2-18=-385/278, 6-8=-357/316
BOT CHORD 17-18=-200/359, 13-14=-169/298, 12-13=-156/264, 8-9=-170/327
WEBS 3-17=-472/310, 3-13=-280/271, 4-13=-330/79, 5-13=-280/262, 5-9=-474/304, 2-17=-310/276, 6-9=-308/263

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 12-7-8, Exterior(2R) 12-7-8 to 15-7-8, Interior(1) 15-7-8 to 26-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 18=251, 17=142, 16=198.
9) n/a
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a total drag load of 1000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 25-3-0 for 39.6 plf.

EXPIRES: 12/31/2024
November 30,2022

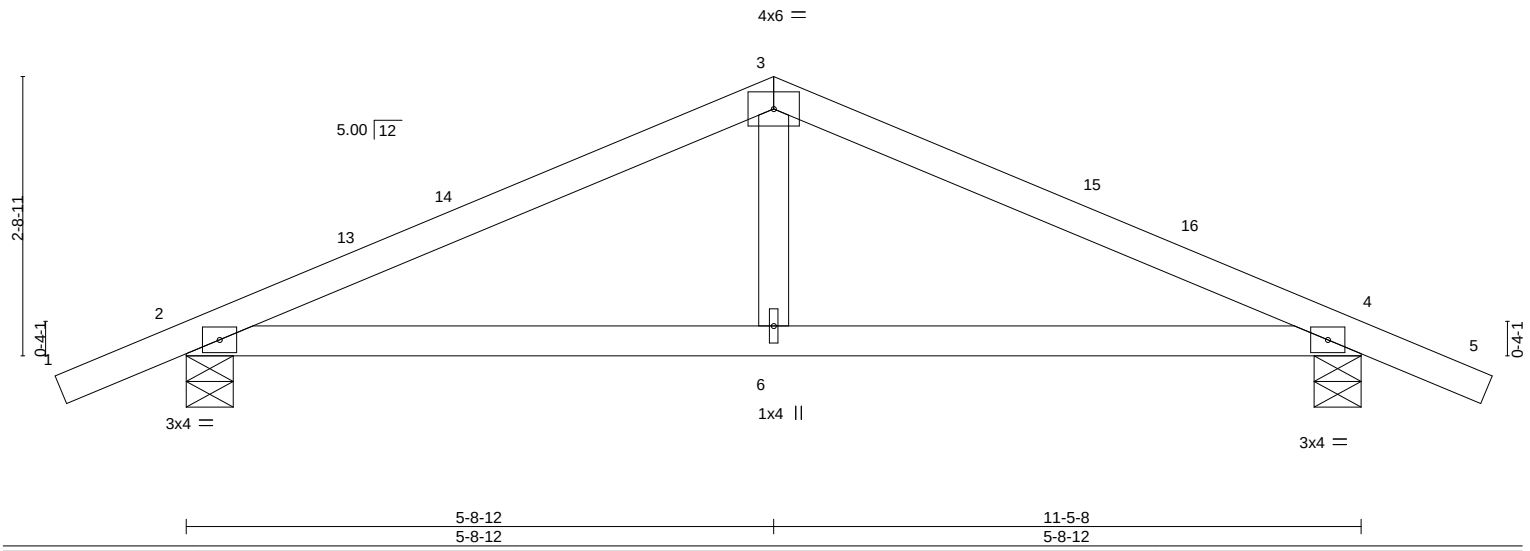
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	P2	Common	2	1	R73704726
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:26 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-7di07zBMl_HZqHz9RiHm8b6TdKlnjJtNm3liijyE44?

-1-2-0 / 1-2-0 | 5-8-12 / 5-8-12 | 11-5-8 / 5-8-12 | 12-7-8 / 1-2-0

Scale = 1:22.5



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.02	6-12	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.06	6-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.03	6-12	>999	240	Weight: 33 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-5-8, 4=0-5-8
Max Horz 2=-41(LC 10)
Max Uplift 2=-91(LC 12), 4=-91(LC 12)
Max Grav 2=587(LC 1), 4=587(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-781/278, 3-4=-781/278
BOT CHORD 2-6=-142/680, 4-6=-142/680
WEBS 3-6=0/270

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 5-8-12, Exterior(2R) 5-8-12 to 8-8-12, Interior(1) 8-8-12 to 12-8-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Two SBP6 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
74609
DUSTIN
REINMUTH
Date Signed
ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

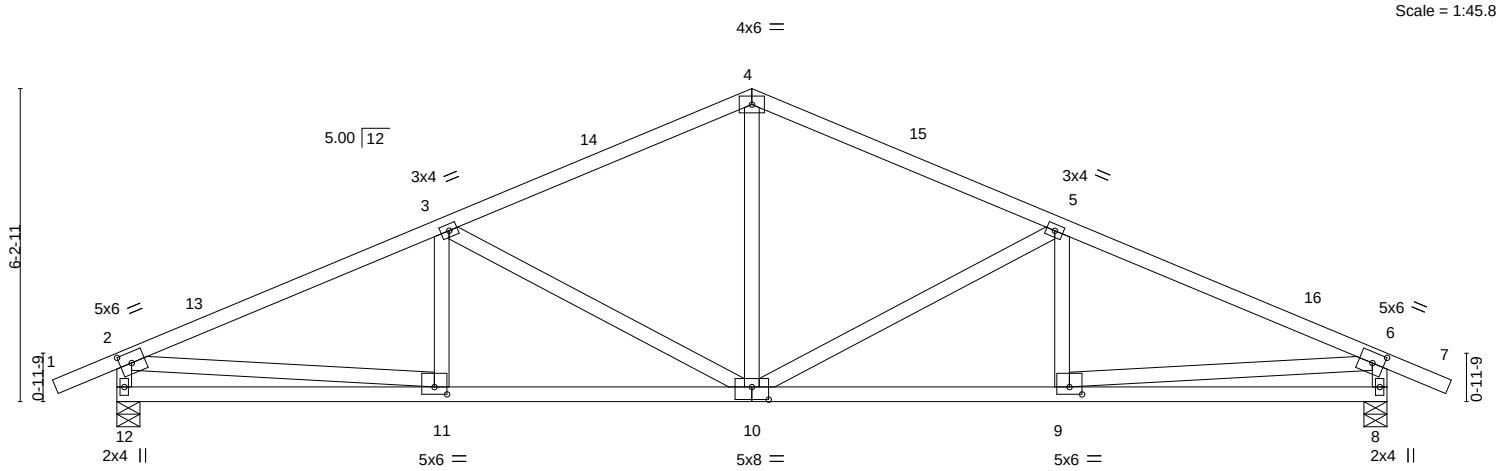
MiTek
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	P2X	Common	2	1	R73704727
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:28 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-30qnYfDdHbXH3a7YY7JED0Bok8PaB1dgDNEpmbyE43z

-1-2-0	6-5-8	12-7-8	18-9-8	25-3-0	26-5-0
1-2-0	6-5-8	6-2-0	6-2-0	6-5-8	1-2-0

Scale = 1:45.8



6-5-8	12-7-8	18-9-8	25-3-0
6-5-8	6-2-0	6-2-0	6-5-8

Plate Offsets (X,Y)-- [2:0-2-12,0-2-8], [5:0-0-0,0-0-0], [6:0-2-12,0-2-8], [9:0-3-0,0-1-12], [10:0-4-0,0-3-0], [11:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.06	8-9	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.16	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.05	10	>999	240	Weight: 108 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 12=0-5-8, 8=0-5-8
Max Horz 12=-83(LC 10)
Max Uplift 12=-151(LC 12), 8=-151(LC 12)
Max Grav 12=1191(LC 1), 8=1191(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1827/275, 3-4=-1367/274, 4-5=-1367/274, 5-6=-1828/275
BOT CHORD 10-11=-173/1621, 9-10=-184/1622
WEBS 3-10=-537/128, 4-10=-45/648, 5-10=-537/128, 2-12=-1138/261, 2-11=-185/1632, 6-8=-1138/261, 6-9=-185/1632

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; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 12-7-8, Exterior(2R) 12-7-8 to 15-7-8, Interior(1) 15-7-8 to 26-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Two SBP6 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 8. This connection is for uplift only and does not consider lateral forces.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

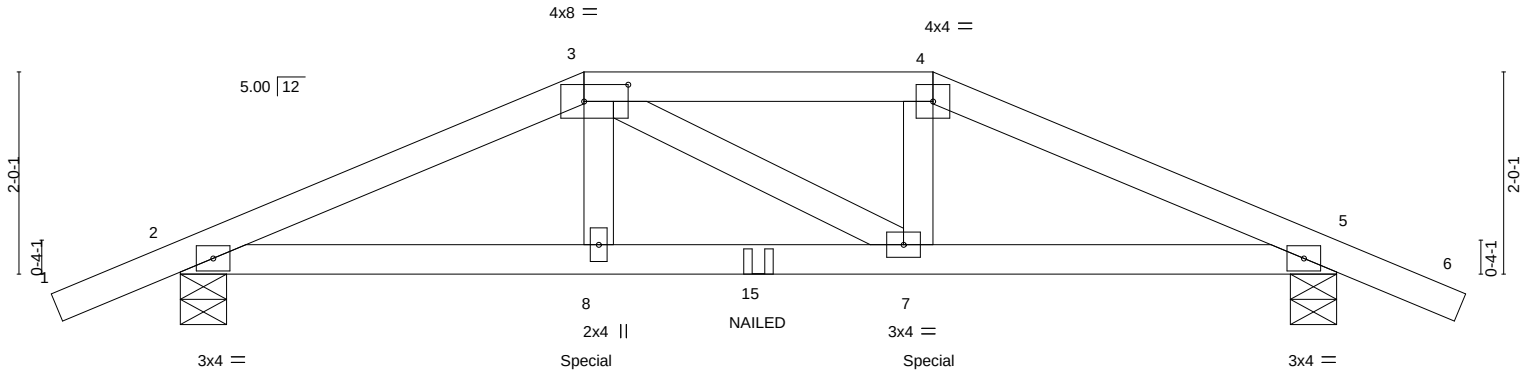
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	P3G	Hip Girder	1	1	R73704728
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:30 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-?OyXzLFtpCn?JuHwgYLiIRGAQy4zf5gyghjwqUyE43x

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

Scale = 1:22.8



4-0-0	7-5-8	11-5-8
4-0-0	3-5-8	4-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.04	7-8	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.09	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.04	7-8	>999	240	Weight: 37 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 5=0-5-8
Max Horz 2=-31(LC 6)
Max Uplift 2=-166(LC 8), 5=-166(LC 8)
Max Grav 2=1012(LC 1), 5=1012(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1956/271, 3-4=-1808/262, 4-5=-1958/271
BOT CHORD 2-8=-206/1763, 7-8=-208/1806, 5-7=-212/1765
WEBS 3-8=-37/514, 4-7=-37/526

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Two SBP6 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 357 lb down and 80 lb up at 4-0-0, and 357 lb down and 80 lb up at 7-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

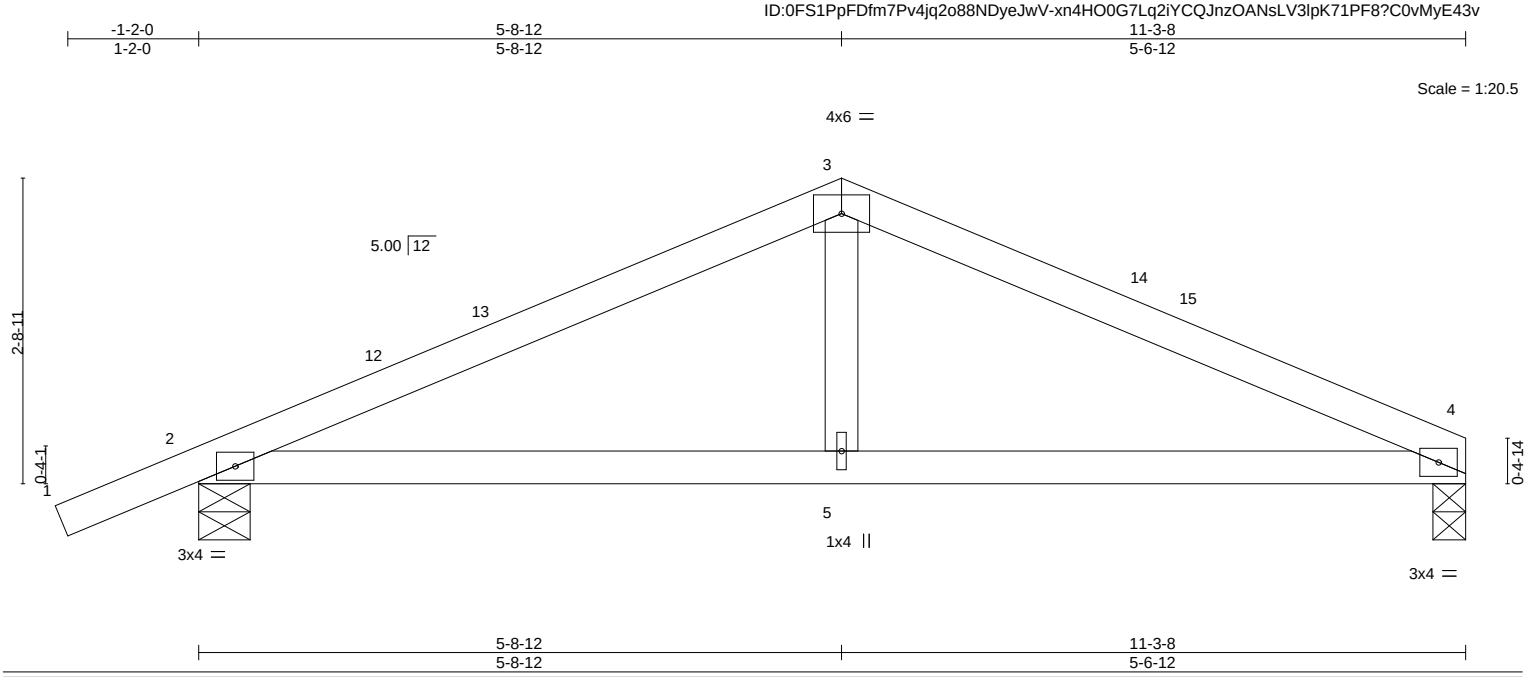
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-68, 3-4=-68, 4-6=-68, 9-12=-20
Concentrated Loads (lb)
Vert: 8=-357(B) 7=-357(B) 15=-136(B)

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	P4	Common	1	1	R73704729
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:32 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-xn4HO0G7Lq2iYCQJnzOANsLV3lpK71PF8?C0vMyE43v



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.02	5-11	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.07	5-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.03	5-11	>999	240	Weight: 31 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 4=0-3-8, 2=0-5-8
Max Horz 2=42(LC 11)
Max Uplift 4=-43(LC 12), 2=-93(LC 12)
Max Grav 4=492(LC 1), 2=584(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-771/281, 3-4=-786/294
BOT CHORD 2-5=-196/671, 4-5=-196/671
WEBS 3-5=0/265

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 5-8-12, Exterior(2R) 5-8-12 to 8-8-12, Interior(1) 8-8-12 to 11-3-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
6) Two SBP6 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

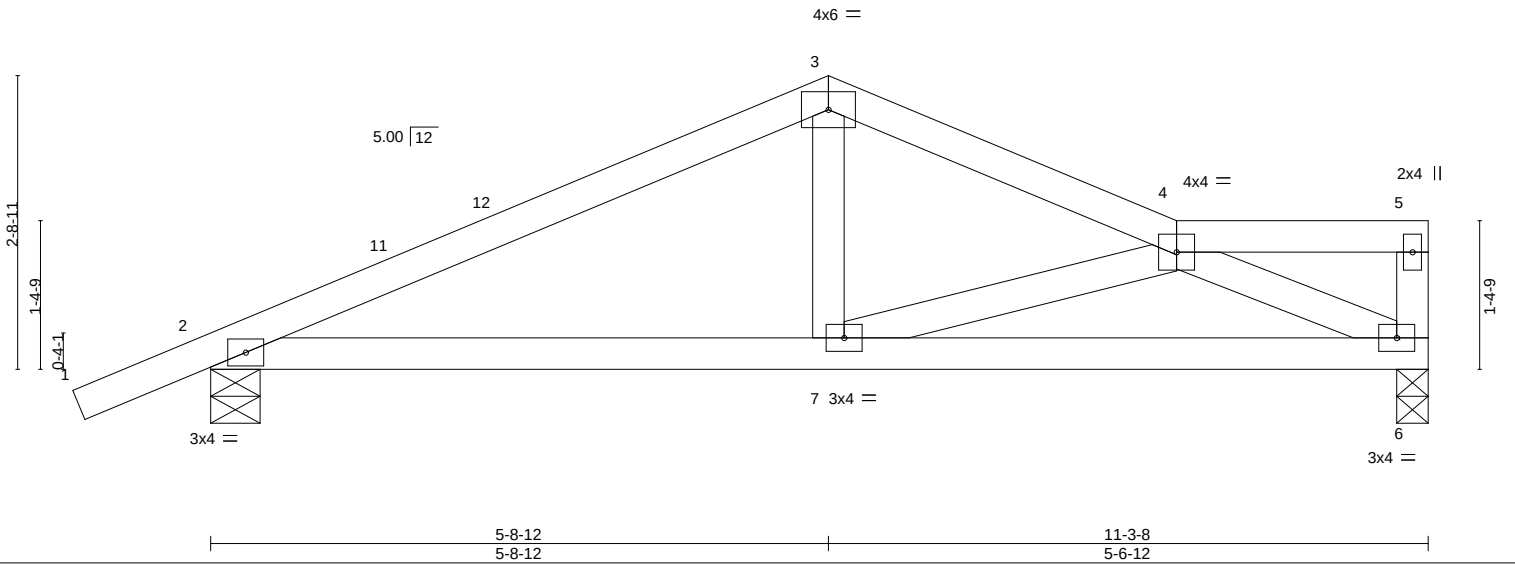
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	P5	ROOF SPECIAL	1	1	R73704730
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:33 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-QzdfbMHm67AZAM?VLgvPw3ugl99isSuPNfyaRpyE43u

-1-2-0 | 5-8-12 | 8-11-8 | 11-3-8
1-2-0 | 5-8-12 | 3-2-12 | 2-4-0

Scale = 1:21.4



5-8-12 | 11-3-8
5-8-12 | 5-6-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.02	7-10	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.07	7-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.03	7-10	>999	240	Weight: 38 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-5-8, 6=0-3-8
Max Horz 2=69(LC 11)
Max Uplift 2=-92(LC 12), 6=-42(LC 12)
Max Grav 2=578(LC 1), 6=486(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-734/246, 3-4=-706/269
BOT CHORD 2-7=-244/634, 6-7=-317/759
WEBS 3-7=0/273, 4-6=-795/351

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 1-9-5, Interior(1) 1-9-5 to 5-8-12, Exterior(2E) 5-8-12 to 8-11-8, Interior(1) 8-11-8 to 11-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Two SBP6 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
8) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	P6	ROOF SPECIAL	1	1	R73704731
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:35 2022 Page 1
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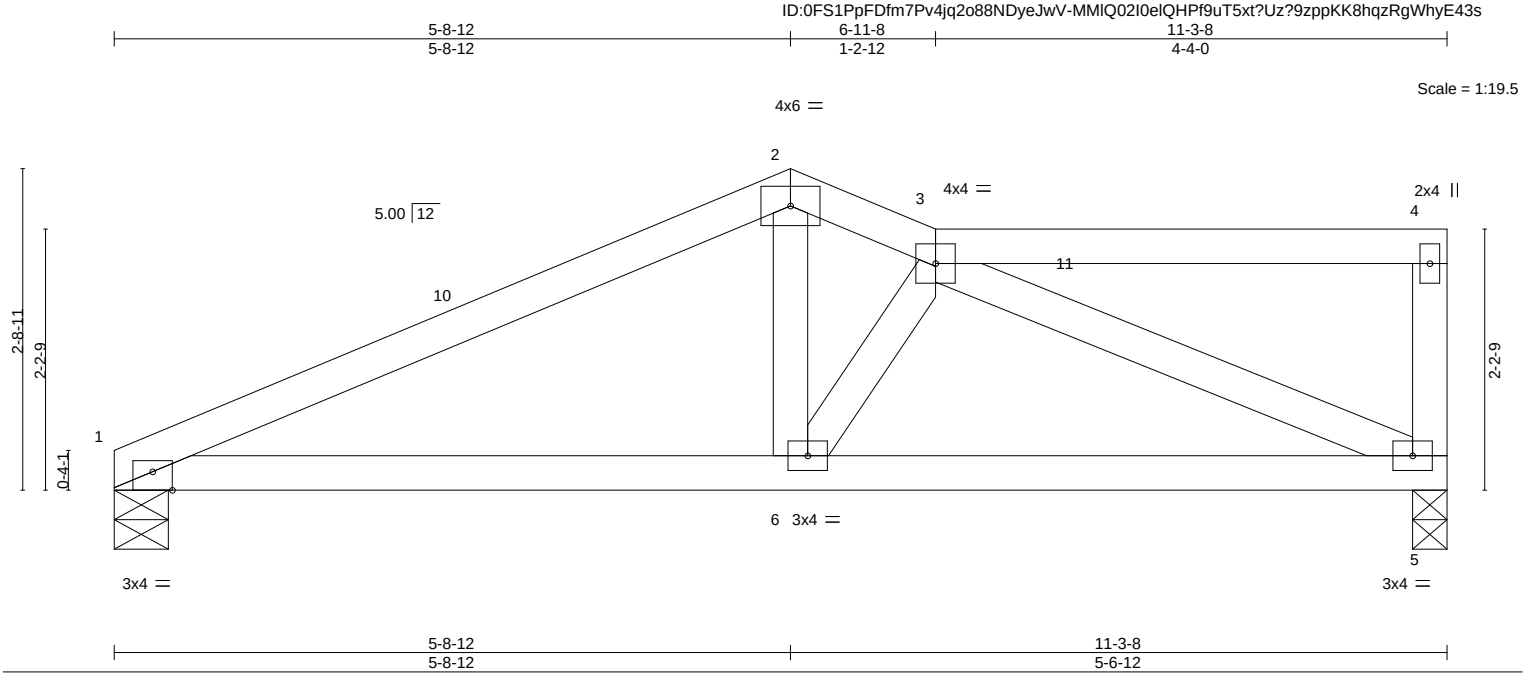


Plate Offsets (X,Y)-- [1:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.03	6-9	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.08	6-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.04	6-9	>999	240	Weight: 38 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=0-5-8, 5=0-3-8
Max Horz 1=81(LC 11)
Max Uplift 1=-44(LC 12), 5=-64(LC 9)
Max Grav 1=490(LC 1), 5=490(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-749/233, 2-3=-687/263
BOT CHORD 1-6=-292/651, 5-6=-311/696
WEBS 2-6=-8/277, 3-5=-711/305

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-8-12, Exterior(2E) 5-8-12 to 6-11-8, Interior(1) 6-11-8 to 11-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Two SBP6 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
8) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

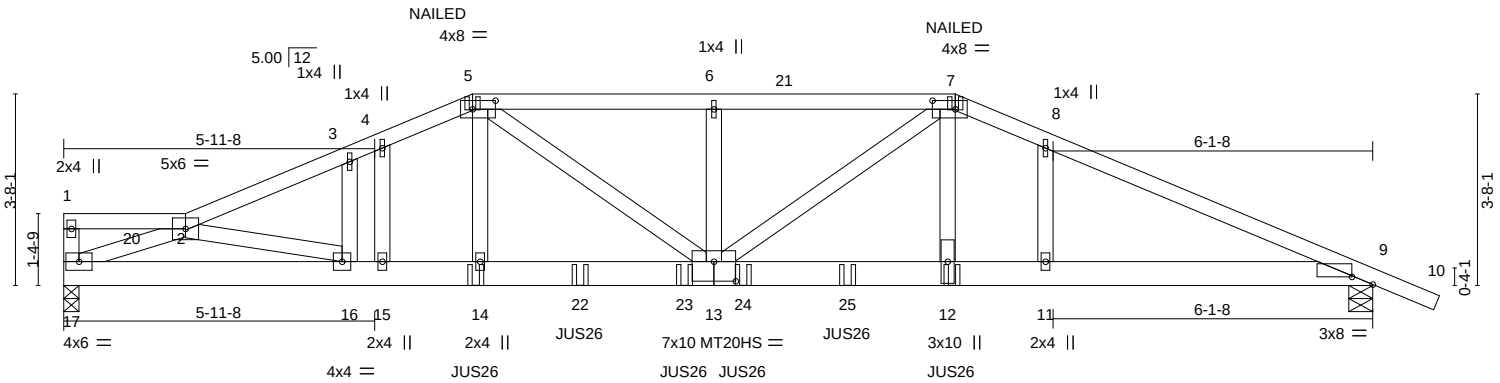
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	P7G	ROOF SPECIAL GIRDER	1	2	R73704732
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:38 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-mxRYe4LuxgosG7uT8DVad7bUbAmSXcd8WxfL60yE43p

2-4-0	5-7-8	5-11-8	7-10-0	12-5-8	17-1-0	18-11-8	25-1-0	26-3-0
2-4-0	3-3-8	0-4-0	1-10-8	4-7-8	4-7-8	1-10-8	6-1-8	1-2-0

Scale = 1:44.2



2-4-0	5-7-8	5-11-8	7-10-0	12-5-8	17-1-0	18-11-8	25-1-0
2-4-0	3-3-8	0-4-0	1-10-8	4-7-8	4-7-8	1-10-8	6-1-8

Plate Offsets (X,Y)-- [5:0-5-4,0-2-0], [7:0-5-4,0-2-0], [9:0-4-13,0-1-12], [13:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.11	11-19	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.31	11-19	>967	240	MT20HS	139/108
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.13	11-19	>999	240	Weight: 226 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 17=0-3-8, 9=0-5-8
Max Horz 17=-81(LC 6)
Max Uplift 17=-402(LC 8), 9=-441(LC 8)
Max Grav 17=2868(LC 1), 9=2911(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6229/906, 3-4=-6236/945, 4-5=-6162/939, 5-6=-6411/996, 6-7=-6411/996, 7-8=-6352/970, 8-9=-6434/929
BOT CHORD 16-17=-796/5700, 15-16=-752/5719, 14-15=-752/5719, 13-14=-762/5787, 12-13=-785/5960, 11-12=-773/5882, 9-11=-773/5882
WEBS 5-14=-216/1543, 5-13=-157/876, 6-13=-298/163, 7-13=-155/688, 7-12=-262/1762, 2-17=-6014/901

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
11) Two SBP6 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
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.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

13) 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 7-10-12 from the left end to 17-0-4 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 774 lb down and 136 lb up at 5-10-12, and 774 lb down and 136 lb up at 19-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

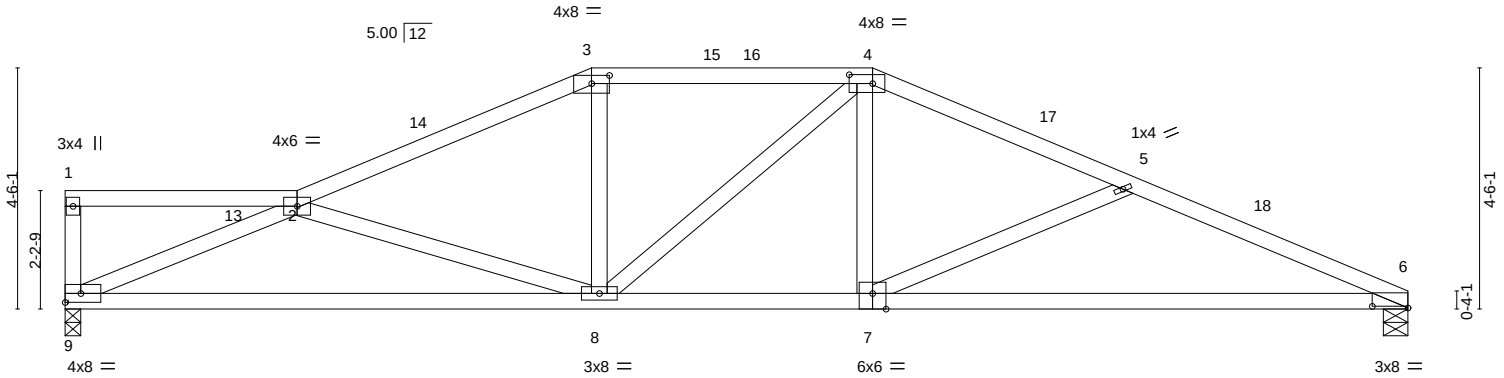
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-68, 2-5=-68, 5-7=-68, 7-10=-68, 9-17=-20
   Concentrated Loads (lb)
   Vert: 5=-19(B) 7=-19(B) 14=-319(B) 12=-319(B) 11=-774 15=-774 22=-319(B) 23=-319(B) 24=-319(B) 25=-319(B)

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	P8	ROOF SPECIAL	1	1	R73704733
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:39 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-E7?xsQMWhzwjuHTfix0pAK8Xva5WG_9HlaPufSyE43o

4-4-0	9-10-0	15-1-0	19-9-2	25-1-0
4-4-0	5-6-0	5-3-0	4-8-2	5-3-14

Scale = 1:43.0



4-4-0	9-10-0	15-1-0	25-1-0
4-4-0	5-6-0	5-3-0	10-0-0

Plate Offsets (X,Y)-- [3:0-4-0,0-1-13], [4:0-5-4,0-2-0], [6:0-8-0,0-0-6], [7:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	-0.24	8-9	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.52	8-9	>572	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.07	7-12	>999	240	Weight: 95 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 9=0-3-8, 6=0-5-8
Max Horz 9=-107(LC 10)
Max Uplift 9=-101(LC 12), 6=-100(LC 12)
Max Grav 9=1097(LC 1), 6=1097(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1795/326, 3-4=-1605/338, 4-5=-1816/336, 5-6=-2268/424
BOT CHORD 8-9=-357/1966, 7-8=-185/1611, 6-7=-335/2073
WEBS 2-8=-400/178, 3-8=0/373, 4-7=0/433, 5-7=-506/173, 2-9=-2049/457

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; B=45ft; L=25ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-10-0, Exterior(2R) 9-10-0 to 12-10-0, Interior(1) 12-10-0 to 15-1-0, Exterior(2R) 15-1-0 to 18-1-0, Interior(1) 18-1-0 to 25-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) Roof live (Construction) load check assumes a transverse pitch of 5.00 / 12 on flat section(s).
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
8) Two SBP6 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

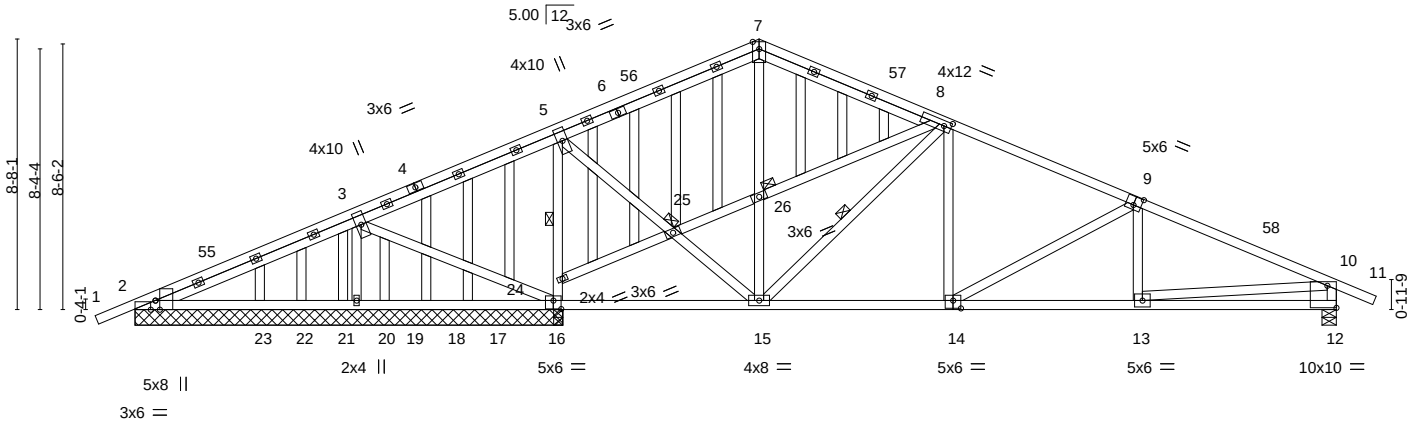
Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	R1E	GABLE	1	1	R73704734
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:43 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-7uERhnP1lCQ9NumQxm4lKAJFpBXkCtLtgCN6oEyE43k

1-2-0	7-1-3	13-6-10	20-0-0	26-0-13	32-1-11	38-6-0	39-8-0
1-2-0	7-1-3	6-5-6	6-5-6	6-0-13	6-0-13	6-4-5	1-2-0

MT20 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.

Scale = 1:73.8



7-1-3	13-6-10	13-8-8	20-0-0	26-0-13	32-1-11	38-6-0
7-1-3	6-5-6	0-1-14	6-3-8	6-0-13	6-0-13	6-4-5

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-1-13,Edge], [8:0-2-13,0-2-0], [9:0-3-0,0-3-4], [12:Edge,0-8-8], [14:0-3-0,0-3-0], [16:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.04	12-13	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.11	13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.05	13-14	>999	240	Weight: 258 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 HF/SPF Stud/Std
OTHERS	2x4 HF/SPF Stud/Std

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-16, 8-15
JOINTS	1 Brace at Jt(s): 25, 26

REACTIONS. All bearings 13-8-8 except (jt=length) 12=0-5-8.
(lb) - Max Horz 2=171(LC 33)
Max Uplift All uplift 100 lb or less at joint(s) 17, 22, 23 except 2=-213(LC 35), 16=-242(LC 36), 20=-299(LC 35), 12=-399(LC 36)
Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 21, 22, 23, 2 except 2=256(LC 44), 16=1817(LC 1), 16=1817(LC 1), 20=380(LC 32), 12=1073(LC 1)

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

TOP CHORD	2-3=-372/529, 3-5=-425/792, 5-7=-530/331, 7-8=-492/322, 8-9=-1293/544, 9-10=-1783/680, 10-12=-1015/477
BOT CHORD	2-23=-516/375, 22-23=-435/294, 21-22=-389/253, 20-21=-352/211, 19-20=-336/198, 18-19=-310/170, 17-18=-269/128, 16-17=-253/112, 15-16=-389/275, 14-15=-189/922, 13-14=-377/1411, 12-13=-162/461
WEBS	3-20=-391/310, 3-16=-536/344, 16-24=-1595/288, 5-24=-1423/258, 5-25=-69/992, 15-25=-70/1000, 8-15=-530/124, 8-14=-16/442, 9-14=-490/175, 10-13=-502/1244, 24-25=-359/64, 25-26=-376/65, 8-26=-384/67

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; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-7-8, Interior(1) 2-7-8 to 20-0-0, Exterior(2R) 20-0-0 to 23-10-3, Interior(1) 23-10-3 to 39-8-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 23 except (jt=lb) 2=213, 2=213.
9) n/a
10) n/a

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a total drag load of 1200 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 38-6-0 for 31.2 plf.
13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

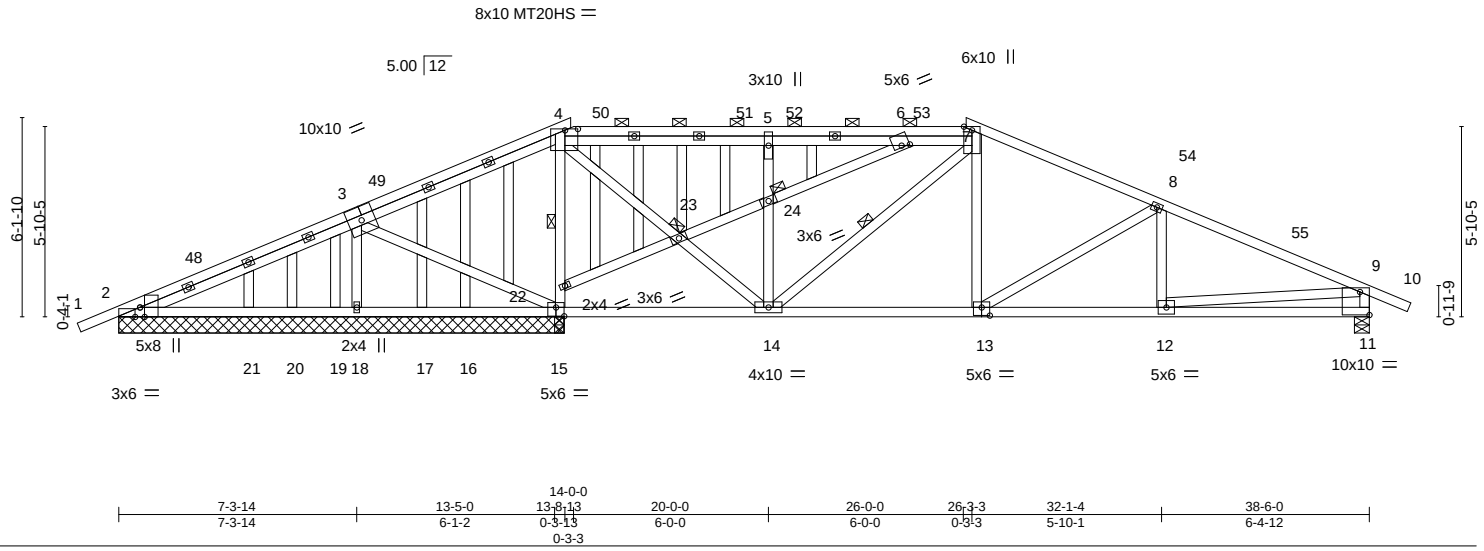
Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	R1EB	GABLE	1	1	R73704735
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:48 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-Ts1KkVSAak3RTffOjKgw1E06iCEut8ycpU4sTRyE43f

1-2-0 | 7-3-14 | 13-8-13 | 14-0-0 | 20-0-0 | 26-0-0 | 26-3-3 | 32-1-4 | 38-6-0 | 39-8-0
1-2-0 | 7-3-14 | 6-4-15 | 0-3-3 | 6-0-0 | 6-0-0 | 0-3-3 | 5-10-1 | 6-4-12 | 1-2-0

MT20 1.5x3 ON EACH FACE OF BOTH ENDS OF UN-PLATED MEMBERS OR EQUIVALENT CONNECTION BY OTHERS.

Scale = 1:70.9



7-3-14 | 13-5-0 | 13-8-13 | 14-0-0 | 20-0-0 | 26-0-0 | 26-3-3 | 32-1-4 | 38-6-0
7-3-14 | 6-1-2 | 0-3-13 | 0-3-3 | 6-0-0 | 6-0-0 | 0-3-3 | 5-10-1 | 6-4-12

Plate Offsets (X,Y)-- [2:0-1-13,Edge], [2:0-3-8,Edge], [4:0-4-12,0-0-8], [6:0-3-0,0-0-12], [7:0-1-6,0-3-0], [11:Edge,0-8-8], [13:0-3-0,0-3-0], [15:0-3-0,0-3-4]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 16.0		Plate Grip DOL 1.25	TC 0.75		Vert(LL)	-0.04	13-14	>999	360	MT20	185/144
TCDL 18.0		Lumber DOL 1.25	BC 0.33		Vert(CT)	-0.12	13-14	>999	240	MT20HS	139/108
BCLL 0.0	*	Rep Stress Incr NO	WB 0.69		Horz(CT)	0.02	11	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.05	12-13	>999	240	Weight: 236 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std
OTHERS 2x4 HF/SPF Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-14, 4-15
JOINTS 1 Brace at Jt(s): 23, 24

REACTIONS. All bearings 13-8-8 except (jt=length) 11=0-5-8.
(lb) - Max Horz 2=123(LC 33)
Max Uplift All uplift 100 lb or less at joint(s) 16, 20, 21 except 2=-207(LC 35), 18=-276(LC 35), 11=-363(LC 36), 15=-245(LC 36)
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 17, 19, 20, 21, 2 except 18=350(LC 32), 11=1049(LC 48), 15=1911(LC 1), 15=1911(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-353/526, 3-4=-373/827, 4-5=-462/327, 5-6=-395/241, 6-7=-746/361, 7-8=-1213/473, 8-9=-1669/606, 9-11=-980/442
BOT CHORD 2-21=-514/358, 20-21=-433/273, 19-20=-391/235, 18-19=-350/192, 17-18=-329/173, 16-17=-267/111, 15-16=-287/132, 14-15=-395/236, 13-14=-141/961, 12-13=-304/1336, 11-12=-169/468
WEBS 3-18=-331/311, 4-23=-217/1201, 14-23=-225/1240, 14-24=-395/140, 5-24=-372/136, 7-14=-429/132, 9-12=-439/1144, 7-13=-13/418, 8-13=-436/163, 15-22=-1644/264, 4-22=-1486/231, 3-15=-571/332, 22-23=-326/67, 23-24=-413/84, 6-24=-418/88

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; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-7-8, Interior(1) 2-7-8 to 13-8-9, Exterior(2R) 13-8-9 to 19-1-14, Interior(1) 19-1-14 to 26-1-9, Exterior(2R) 26-1-9 to 31-6-14, Interior(1) 31-6-14 to 39-8-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 3x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21 except (jt=lb) 2=207, 2=207.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

11) n/a

12) n/a

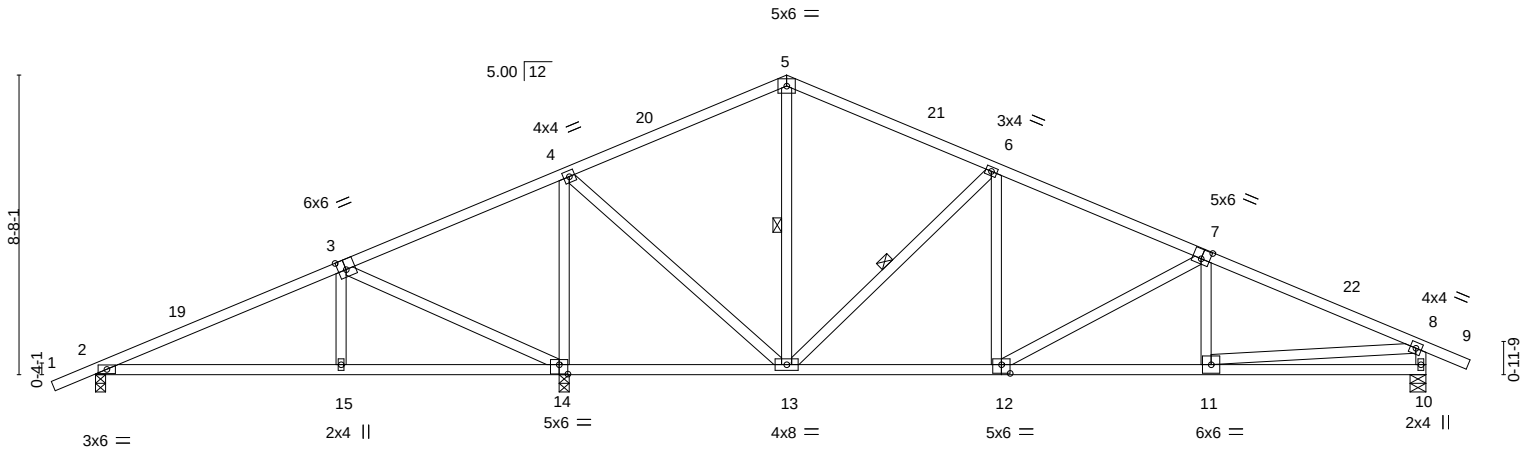
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a total drag load of 1200 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 38-6-0 for 31.2 plf.
15) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	R2	Common	2	1	R73704736
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:51 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-uRjTNWV2tfR0K7NzPSEdfsejjPGa4RJ2WSJX4myE43c

1-2-0	7-1-4	13-6-12	20-0-0	26-0-13	32-1-11	38-6-0	39-8-0
1-2-0	7-1-4	6-5-8	6-5-4	6-0-13	6-0-13	6-4-5	1-2-0

Scale = 1:66.7



7-1-4	13-6-12	20-0-0	26-0-13	32-1-11	38-6-0
7-1-4	6-5-8	6-5-4	6-0-13	6-0-13	6-4-5

Plate Offsets (X,Y)-- [3:0-2-12,Edge], [7:0-3-0,0-3-4], [12:0-3-0,0-3-0], [14:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.06	10-11	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.14	15-18	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.05	15-18	>999	240	Weight: 165 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
4-14: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-13, 6-13

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 10=0-5-8
Max Horz 2=154(LC 11)
Max Uplift 2=-79(LC 12), 14=-185(LC 12), 10=-140(LC 12)
Max Grav 2=465(LC 23), 14=2085(LC 1), 10=1052(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-351/80, 3-4=-16/703, 4-5=-469/186, 5-6=-462/187, 6-7=-1078/200, 7-8=-1535/189
BOT CHORD 2-15=-49/275, 14-15=-53/270, 13-14=-534/143, 12-13=-29/912, 11-12=-103/1351
WEBS 3-15=0/294, 3-14=-810/126, 4-14=-1608/251, 4-13=-83/1180, 6-13=-788/152, 6-12=0/447, 7-12=-496/90, 8-10=-999/221, 8-11=-101/1360

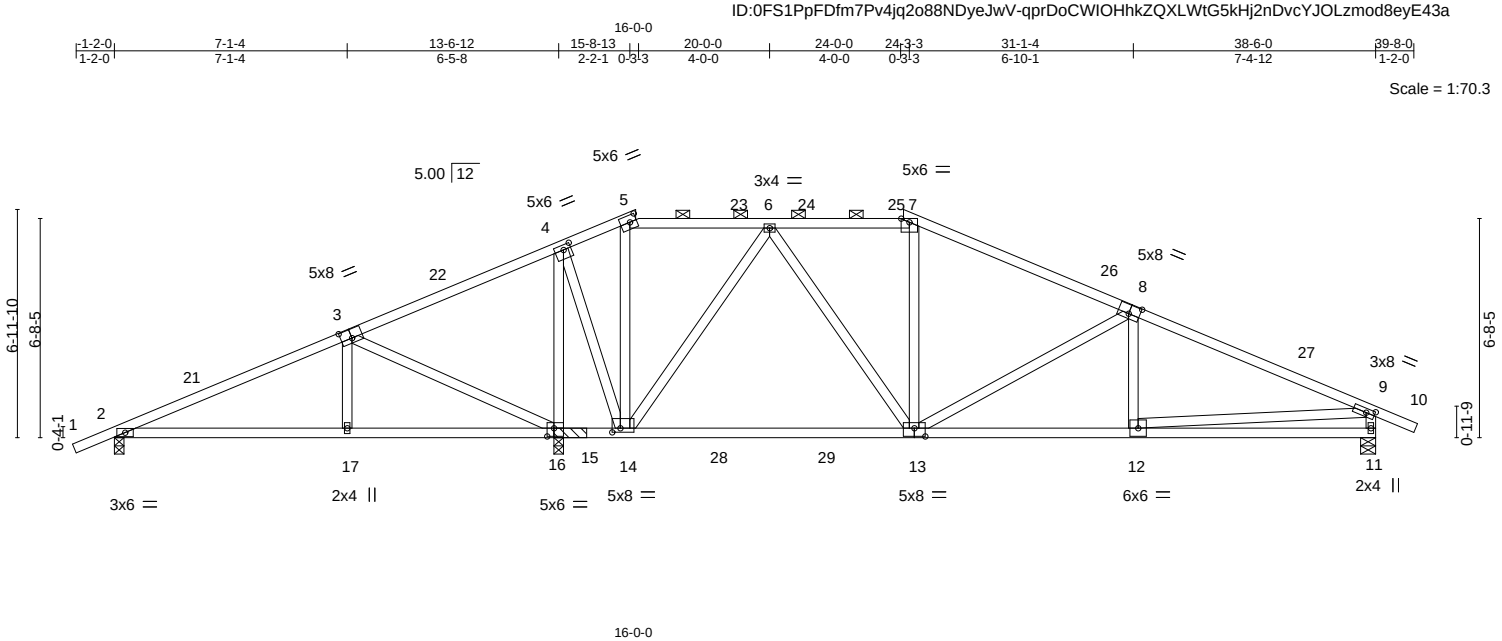
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-7-8, Interior(1) 2-7-8 to 20-0-0, Exterior(2R) 20-0-0 to 23-10-3, Interior(1) 23-10-3 to 39-8-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 14. This connection is for uplift only and does not consider lateral forces.
6) Two SBP6 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	R2B	HIP	1	1	R73704737
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:53 2022 Page 1
ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-qprDoCWIOHhkZQXLWtG5kHj2nDvcYJOLzmod8eyE43a



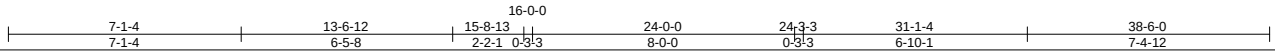


Plate Offsets (X,Y)-- [3:0-4-0,0-3-4], [4:0-2-12,0-1-12], [5:0-2-8,0-2-8], [7:0-3-0,0-1-6], [8:0-4-0,0-3-4], [9:0-3-3,0-1-8], [13:0-4-0,0-3-0], [14:0-3-0,0-1-8], [16:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.21	13-14	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.37	13-14	>819	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.04	17-20	>999	240	Weight: 172 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
4-16,6-14: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 16=(0-3-8 + bearing block) (req. 0-3-11), 11=0-5-8
Max Horz 2=121(LC 11)
Max Uplift 2=-77(LC 12), 16=-189(LC 12), 11=-139(LC 12)
Max Grav 2=447(LC 25), 16=2343(LC 17), 11=1177(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-309/105, 3-4=-29/825, 6-7=-905/208, 7-8=-1057/190, 8-9=-1703/208
BOT CHORD 14-16=-649/157, 13-14=0/496, 12-13=-122/1512
WEBS 3-17=0/310, 3-16=-971/138, 4-16=-1869/215, 6-14=-1094/179, 6-13=-35/719, 4-14=-84/1455, 8-13=-742/148, 9-11=-1070/224, 9-12=-120/1522

NOTES-
1) 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 16 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-7-8, Interior(1) 2-7-8 to 15-7-1, Exterior(2R) 15-7-1 to 21-0-6, Interior(1) 21-0-6 to 24-4-15, Exterior(2R) 24-4-15 to 29-10-4, Interior(1) 29-10-4 to 39-8-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 16. This connection is for uplift only and does not consider lateral forces.
8) Two SBP6 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

EXPIRES: 12/31/2024
November 30,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

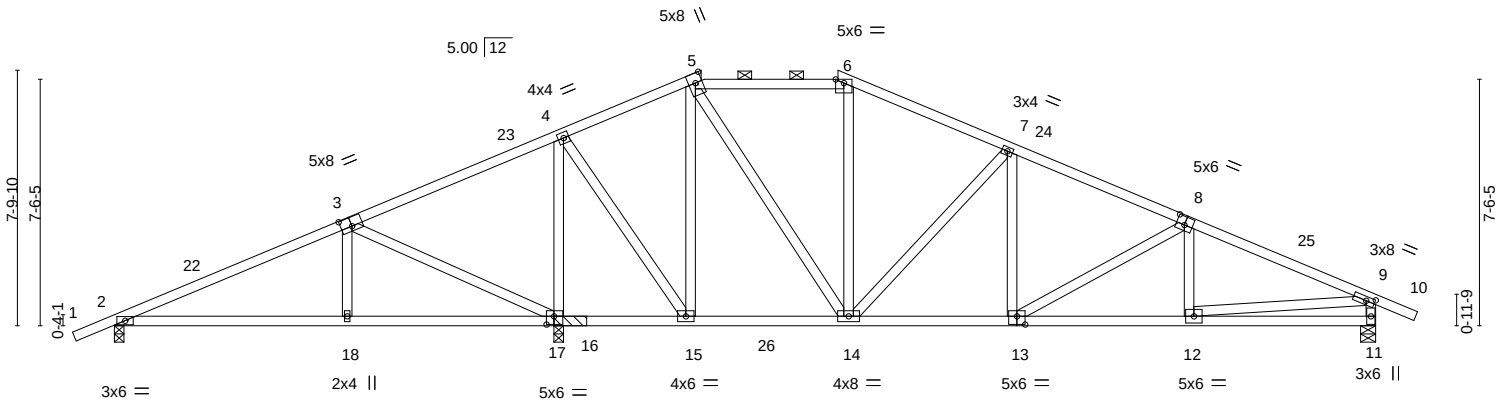
Job	Truss	Truss Type	Qty	Ply	KB Home 2013
2013	R3B	HIP	1	1	R73704738
					Job Reference (optional)

US Components, Tucson, AZ - 85713, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Nov 30 06:39:56 2022 Page 1

ID:0FS1PpFDfm7Pv4jq2o88NDyeJwV-EOWMQEZBhC3IQuGwB?poMwLYPQzalg6nfk0IlzyE43X

1-2-0	7-1-4	13-6-12	17-8-13	18-0-0	22-0-0	22-3-3	27-4-13	32-9-11	38-6-0	39-8-0
1-2-0	7-1-4	6-5-8	4-2-1	0-3-3	4-0-0	0-3-3	5-1-10	5-4-13	5-8-5	1-2-0

Scale = 1:70.3



7-1-4	13-6-12	17-8-13	18-0-0	22-0-0	22-3-3	27-4-13	32-9-11	38-6-0
7-1-4	6-5-8	4-2-1	0-3-3	4-0-0	0-3-3	5-1-10	5-4-13	5-8-5

Plate Offsets (X,Y)-- [3:0-4-0,0-3-4], [6:0-3-0,0-1-6], [8:0-3-0,0-3-0], [9:0-3-3,0-1-8], [13:0-3-0,0-3-0], [17:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	16.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.07	18-21	>999	360	MT20	185/144
TCDL	18.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.16	18-21	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS		Wind(LL)	0.08	12-13	>999	240	Weight: 178 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 HF/SPF Stud/Std *Except*
4-17,9-12: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 17=(0-3-8 + bearing block) (req. 0-3-9), 11=0-5-8
Max Horz 2=134(LC 33)
Max Uplift 2=-571(LC 35), 17=-452(LC 35), 11=-849(LC 36)
Max Grav 2=783(LC 32), 17=2273(LC 17), 11=1449(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1353/1213, 3-4=-657/1055, 4-5=-512/426, 5-6=-827/493, 6-7=-1340/910, 7-8=-2096/1290, 8-9=-2602/1559
BOT CHORD 2-18=-1098/1321, 17-18=-597/864, 15-17=-635/330, 14-15=-364/570, 13-14=-648/1443, 12-13=-946/1985, 11-12=-432/432
WEBS 3-18=0/303, 3-17=-963/151, 4-17=-1683/519, 5-14=-298/863, 7-13=-79/408, 8-13=-545/273, 8-12=-198/256, 5-15=-887/330, 4-15=-343/1289, 7-14=-737/208, 9-11=-1483/925, 9-12=-1383/2432

NOTES-

1) 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 17 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. User Defined Bearing crushing capacity= 425psi.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-2-11 to 2-7-8, Interior(1) 2-7-8 to 17-7-14, Exterior(2E) 17-7-14 to 22-4-15, Exterior(2R) 22-4-15 to 27-10-4, Interior(1) 27-10-4 to 39-8-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=849.
8) Two SBP4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 17. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) This truss has been designed for a total drag load of 3000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 38-6-0 for 77.9 plf.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Continued on page 2

Registered Professional Engineer (Civil) CERTIFICATE NO. 74609 DUSTIN REINMUTH Date Signed ARIZONA U.S.A.

EXPIRES: 12/31/2024
November 30,2022

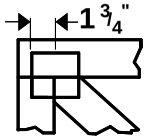
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

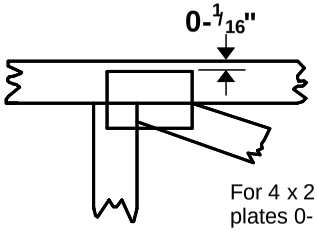
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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.

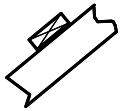
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

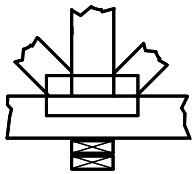
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

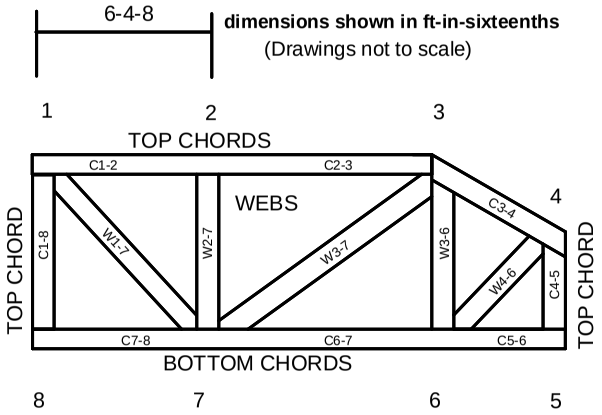


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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



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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
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/TPI 1 Quality Criteria.

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