



MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: 2335469

Summit/61 Hawthorn Ridge

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

Pages or sheets covered by this seal: I41172641 thru I41172721

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

Missouri COA: Engineering 001193



May 4, 2020

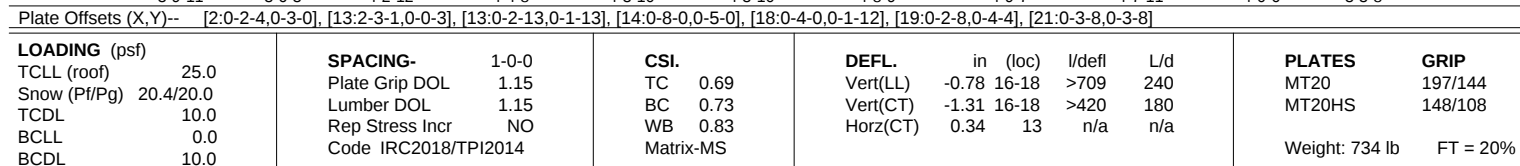
Sevier, Scott ,Engineer

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

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

06/01/2020

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:14:51 2020 Page 1
 ID:tnOHGeVPJTyi41JASwyTKzhfUX-Pa?q2DJfzbBJF8Ksly1OAJwWx9utE9bJwIfQuzKpgpo
 -0-10-8 3-9-11 7-3-14 11-6-11 15-11-3 20-2-14 24-6-8 29-3-1 34-0-7 38-8-2 46-0-0
 0-10-8 3-9-11 3-6-3 4-2-12 4-4-8 4-3-10 4-3-10 4-8-9 4-9-7 4-7-11 4-0-6 3-3-8
 Scale = 1:82.7



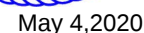
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-7806/760, 3-4=-7060/697, 4-5=-12770/1393, 5-6=-15884/1843, 6-8=-15914/1842, 8-9=-19684/2501, 9-10=-19684/2501, 10-11=-11709/1775, 11-12=-12388/1919, 12-13=-16071/2730

BOT CHORD 2-24=-680/7187, 22-24=-1111/10339, 21-22=-1082/9580, 8-18=-283/2710, 18-19=-1365/10969, 16-18=-2466/20613, 15-16=-2129/15852, 14-15=-2396/13909, 13-14=-2529/14918

WEBS 3-24=-241/2839, 4-24=-4043/545, 4-22=-315/2994, 5-22=-2108/352, 19-22=-291/3269, 19-21=-2428/341, 6-19=-481/122, 8-16=-1058/0, 10-16=-378/4201, 10-15=-4579/423, 11-15=-506/3940, 8-19=-5506/756, 18-21=-1148/10118, 5-19=-500/3459, 12-14=-410/2871, 12-15=-2391/673

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



Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172641
2335469	A01	HIP GIRDER	1	3	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:14:51 2020 Page 2
ID:tjnOHGeVPJTYi41JASwyTKzhfUX-Pa?q2DJfzbBJF8Kslyl1OAjwWx9utE9bJwIFQuzKpgo

- NOTES-**
- 11) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=329, 13=576.
 - 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 15) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 20-0-0 oc max. starting at 5-0-0 from the left end to 37-0-0 to connect truss(es) to front face of bottom chord.
 - 16) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 39-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
 - 17) Fill all nail holes where hanger is in contact with lumber.
 - 18) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 19) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 295 lb down and 263 lb up at 41-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-3=-25, 3-11=-30, 11-13=-25, 20-25=-10, 14-18=-10, 14-28=-10
 - Concentrated Loads (lb)
 - Vert: 17=-285(F) 24=-61(F) 16=-285(F) 31=-176(F) 32=-176(F) 33=-176(F) 35=-176(F) 36=-176(F) 37=-176(F) 38=-176(F) 39=-176(F) 42=-279(F) 43=-498(F) 44=-61(F) 45=-61(F) 46=-61(F) 47=-61(F) 48=-61(F) 49=-61(F) 50=-61(F) 51=-61(F) 54=-285(F) 55=-285(F) 56=-285(F) 57=-285(F) 58=-285(F) 59=-264(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172642
2335469	A02	HIP	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:14:54 2020 Page 1

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-p9hzgFLXGWat6c3RQ4Jk0oLMB87z4ey1?uzv1DzKpgl

-0-10-8 5-2-8 9-8-11 15-9-6 21-6-8 24-6-8 30-3-2 36-3-5 46-0-0
0-10-8 5-2-8 4-6-3 6-0-10 5-9-2 3-0-0 5-8-10 6-0-2 9-8-11

Scale = 1:80.2

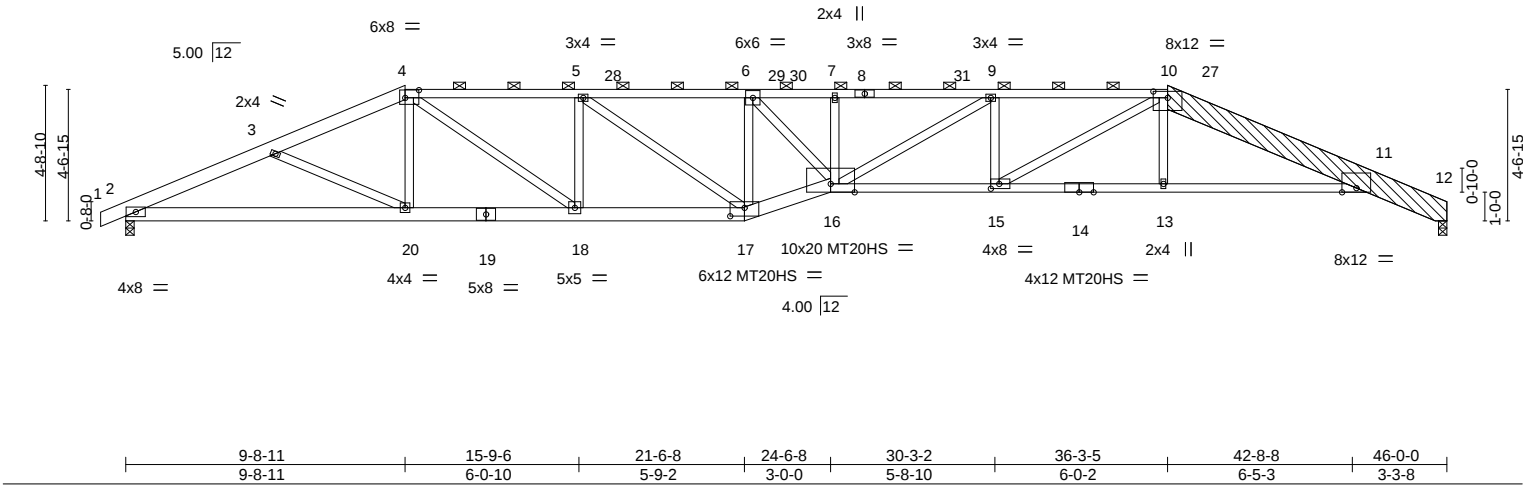


Plate Offsets (X,Y)--		[4:0-5-12,0-3-4], [10:0-6-0,0-2-11], [15:0-3-8,0-2-0], [17:0-6-0,0-3-8]							
LOADING (psf)		SPACING		CSI		DEFL.		PLATES	
TCLL (roof)	25.0	2-0-0		TC	0.98	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15	BC	0.90	Vert(LL)	-0.76 15-16 >728	MT20HS	197/144
TCDL	10.0	Lumber DOL	1.15	WB	0.63	Vert(CT)	-1.35 15-16 >409		148/108
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.37 12 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014						Weight: 268 lb	FT = 20%

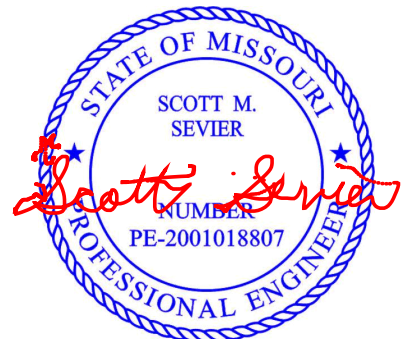
LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 1650F 1.5E *Except* 1-4: 2x6 SPF 2100F 1.8E, 10-12: 2x10 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins: 4-10.
BOT CHORD	2x6 SPF 2100F 1.8E *Except* 14-16: 2x4 SP 2400F 2.0E, 11-14: 2x4 SPF 1650F 1.5E	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
OTHERS	2x10 SP 2400F 2.0E		
LBR SCAB	10-12 2x10 SP 2400F 2.0E one side		

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=44(LC 14)
Max Uplift 2=-67(LC 8), 12=-52(LC 8)
Max Grav 2=2125(LC 2), 12=2067(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4368/170, 3-4=-4139/176, 4-5=-5278/258, 5-6=-5850/284, 6-7=-7436/339,
7-9=-7449/341, 9-10=-6728/305, 10-11=-5109/207, 11-12=-786/41
BOT CHORD 2-20=-121/3941, 18-20=-96/3812, 17-18=-182/5278, 15-16=-227/6728, 13-15=-127/4835,
11-13=-129/4829, 16-17=-224/6193
WEBS 3-20=-366/152, 4-20=0/332, 5-18=-958/107, 10-13=0/258, 4-18=-107/1833,
10-15=-116/2214, 9-15=-941/106, 7-16=-296/51, 9-16=-42/841, 6-17=-2106/117,
5-17=-34/717, 6-16=-77/2307

- NOTES-**
- Attached 10-9-8 scab 10 to 12, front face(s) 2x10 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-10 from end at joint 10, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 5-8-14 from end at joint 10, nail 2 row(s) at 2" o.c. for 2-9-2.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2



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MiTek
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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172642
2335469	A02	HIP	1	1	Job Reference (optional)	

- NOTES-**
- 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 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.
 - 14) 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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge
2335469	A03	HIP	1	1	I41172643

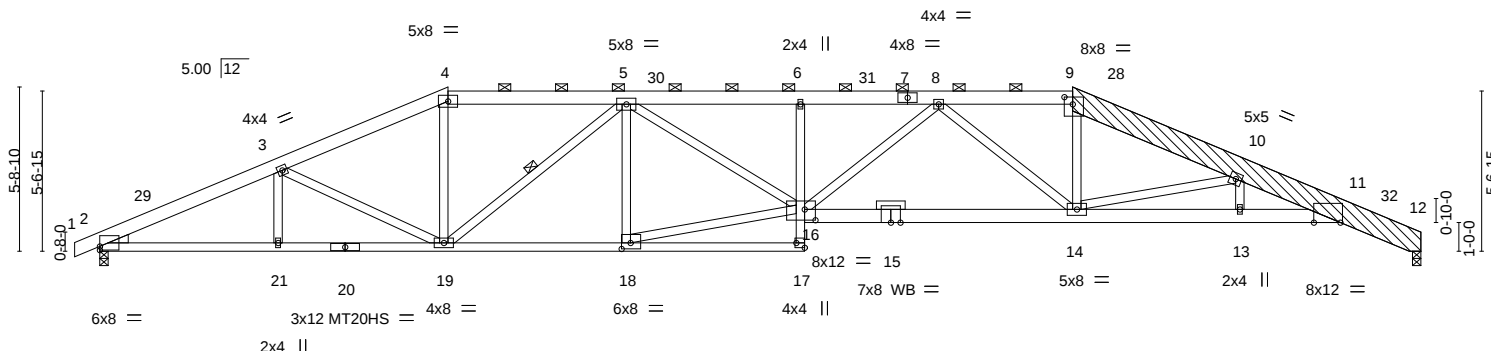
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:14:56 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-mYpj5xMno7qbMwDqXVLC5DQoPyraYVVKTCs056zKpgj

-0-10-8	6-2-8	12-1-8	18-4-0	24-6-8	29-2-8	33-10-8	39-8-6	46-0-0
0-10-8	6-2-8	5-11-0	6-2-8	6-2-8	4-8-0	4-8-0	5-9-14	6-3-10

Scale = 1:80.2



	6-2-8	12-1-8	18-4-0	24-6-8	33-10-8	39-8-6	42-8-8	46-0-0
	6-2-8	5-11-0	6-2-8	6-2-8	9-4-0	5-9-14	3-0-2	3-3-8

Plate Offsets (X,Y)-- [2:0-0-0,0-1-9], [9:0-3-8,0-3-0], [11:0-11-2,0-0-0], [16:0-4-8,0-4-8], [17:Edge,0-3-8], [18:0-3-12,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.47 14-16	>999	240	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.87 14-16	>630	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.35 12	n/a	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL	10.0									Weight: 308 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
9-12: 2x10 SP 2400F 2.0E
BOT CHORD 2x4 SPF 1650F 1.5E *Except*
6-17: 2x4 SPF No.2, 15-16,11-15: 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
16-18: 2x4 SPF 1650F 1.5E
OTHERS 2x10 SP 2400F 2.0E *Except*
15-15: 2x4 SPF No.2
LBR SCAB 9-12 2x10 SP 2400F 2.0E one side
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (2-8-15 max.): 4-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-19

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=54(LC 14)
Max Uplift 2=51(LC 8), 12=36(LC 8)
Max Grav 2=2125(LC 2), 12=2067(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4260/116, 3-4=-3885/157, 4-5=-3538/156, 5-6=-5671/241, 6-8=-5708/238,
8-9=-4523/162, 9-10=-4881/161, 10-11=-5830/151, 11-12=-786/35
BOT CHORD 2-21=-68/3808, 19-21=-68/3808, 18-19=-112/4403, 17-18=-21/346, 6-16=-445/71,
14-16=-141/5276, 13-14=-101/5579, 11-13=-101/5579
WEBS 3-19=-499/95, 4-19=0/983, 5-19=-1317/68, 5-18=-623/73, 16-18=-92/4122,
5-16=-45/1546, 8-16=-4/690, 8-14=-1199/101, 9-14=-1/1226, 10-14=-1169/96

- NOTES-**
- Attached 13-4-11 scab 9 to 12, front face(s) 2x10 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-4 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 7-10-14 from end at joint 9, nail 2 row(s) at 2" o.c. for 4-4-10.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



May 4, 2020

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172643
2335469	A03	HIP	1	1	Job Reference (optional)	

- NOTES-**
- 10) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
 - 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 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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172644
2335469	A04	HIP	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:14:58 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-ixxUWcO2Jk4JbDNCfwNgAeW44lUV0MidwWx7A?zKpgh

-0-10-8	7-4-14	14-6-5	24-6-8	31-5-11	37-1-2	42-8-8	46-0-0
0-10-8	7-4-14	7-1-6	10-0-3	6-11-3	5-7-6	5-7-6	3-3-8

Scale = 1:81.6

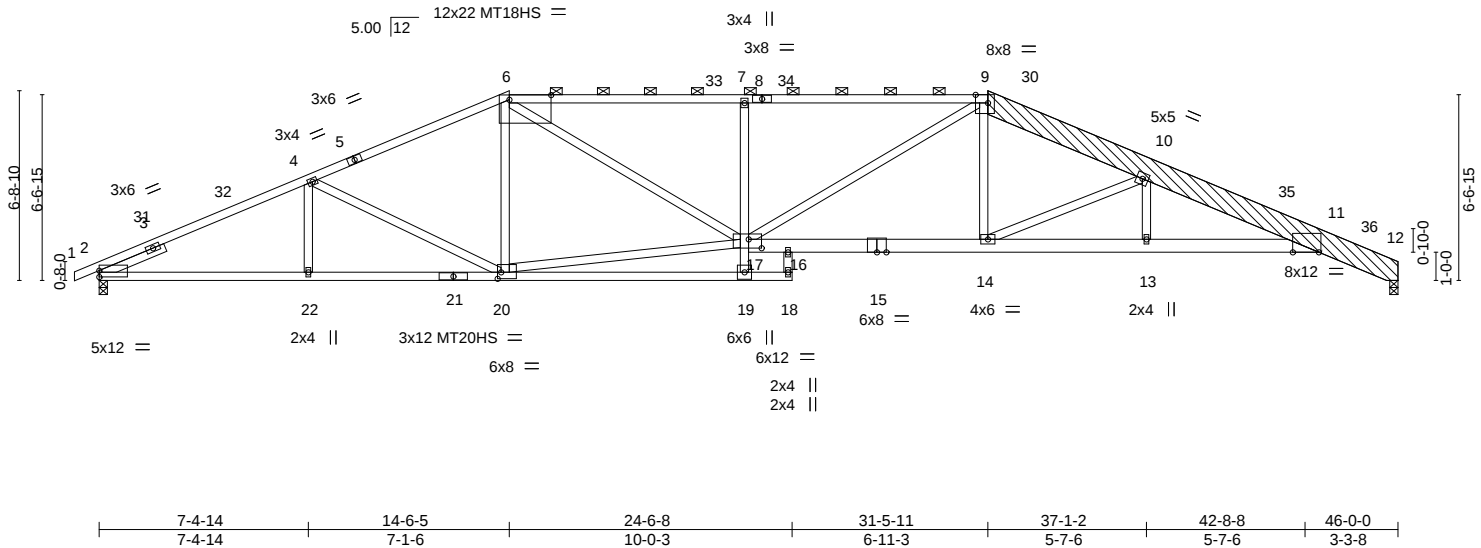


Plate Offsets (X,Y)-- [2:0-0-0,0-2-11], [6:1-5-12,0-2-0], [9:0-5-4,Edge], [11:0-11-2,Edge], [17:0-5-8,0-3-12], [20:0-1-8,0-2-12]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP			
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.43	14-16	>999	240	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.78	14-16	>703	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.32	12	n/a	n/a	MT18HS	197/144
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 310 lb	FT = 20%
BCDL	10.0											

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except*	TOP CHORD Structural wood sheathing directly applied, except
6-8,8-9: 2x4 SP 2400F 2.0E, 9-12: 2x10 SP 2400F 2.0E	2-0-0 oc purlins (2-2-0 max.): 6-9.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied. Except:
2-21: 2x4 SPF 1650F 1.5E, 15-17: 2x6 SPF No.2	10-0-0 oc bracing: 11-13
11-15: 2x6 SPF 2100F 1.8E	
WEBS 2x4 SPF No.2	
OTHERS 2x10 SP 2400F 2.0E	
LBR SCAB 9-12 2x10 SP 2400F 2.0E one side	
SLIDER Left 2x4 SPF No.2 2-6-0	

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=62(LC 14)
Max Uplift 2=-35(LC 8), 12=-20(LC 8)
Max Grav 2=2125(LC 2), 12=2067(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-4123/87, 4-6=-3649/128, 6-7=-4570/178, 7-9=-4596/177, 9-10=-4379/138,
10-11=-5488/108, 11-12=-786/29
BOT CHORD 2-22=-32/3722, 20-22=-32/3722, 19-20=-4/433, 17-19=0/266, 7-17=-809/126,
16-17=-22/4015, 14-16=-22/4015, 13-14=-42/5222, 11-13=-42/5222
WEBS 4-20=-681/113, 17-20=-15/2890, 6-17=-55/1610, 9-17=-47/903, 9-14=0/845,
10-14=-1478/96

NOTES-

- Attached 15-11-14 scab 9 to 12, front face(s) 2x10 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 5-1-0 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 9-9-10 from end at joint 9, nail 2 row(s) at 2" o.c. for 5-2-1.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify connection on bearing surface.



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172644
2335469	A04	HIP	1	1	Job Reference (optional)	

- NOTES-**
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
 - 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 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.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172645
2335469	A05	Hip	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:00 2020 Page 1

ID:ijnOHGeVPJTiy41JASwyTKzhfUX-eJ2ExlQlrMK1qXWbmLP8F3bUMZAPULXwOqQDEtzKpgf

-0-10-8	5-10-1	11-4-9	16-11-2	24-6-8	29-0-14	35-10-11	42-8-8	46-0-0
0-10-8	5-10-1	5-6-9	5-6-9	7-7-6	4-6-6	6-9-13	6-9-13	3-3-8

Scale = 1:80.2

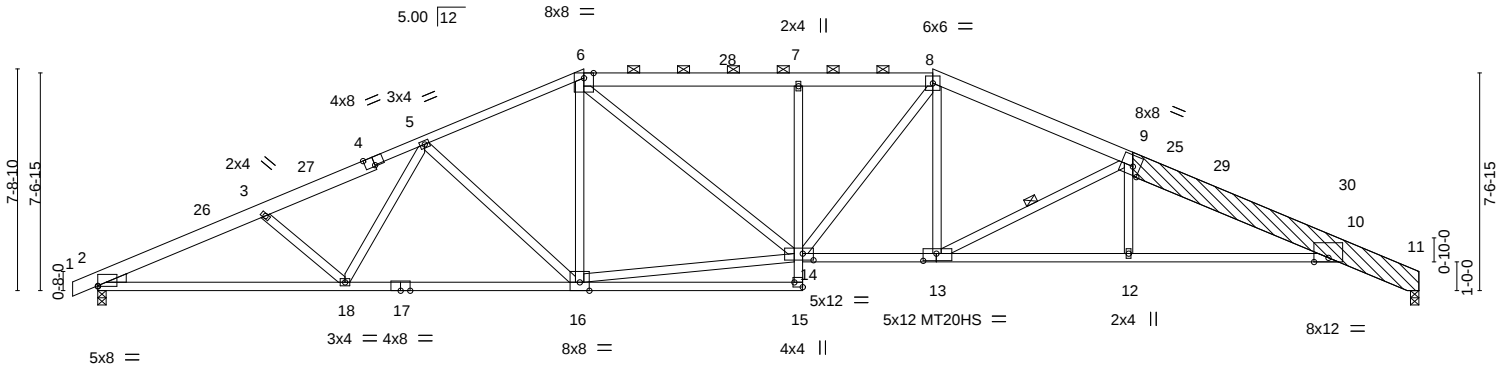


Plate Offsets (X,Y)--		[2:0-0-0,0-0-4], [4:0-4-0,Edge], [9:0-3-0,0-3-8], [13:0-5-8,0-3-0], [14:0-4-8,0-2-12], [15:Edge,0-3-8]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	25.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.62
		BC	0.90
		WB	0.69
		Matrix-AS	
		DEFL.	
		Vert(LL)	-0.38 13-14 >999 240
		Vert(CT)	-0.68 13-14 >806 180
		Horz(CT)	0.34 11 n/a n/a
		PLATES	
		MT20	197/144
		MT20HS	148/108
		GRIP	
			Weight: 291 lb FT = 20%

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except*
4-6: 2x4 SP 2400F 2.0E, 9-11: 2x10 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E *Except*
7-15: 2x4 SPF No.2, 15-17,10-13: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
OTHERS 2x10 SP 2400F 2.0E
LBR SCAB 9-11 2x10 SP 2400F 2.0E one side
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-3-1 max.): 6-8.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 9-13

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=73(LC 14)
Max Uplift 2=-33(LC 12), 11=-23(LC 13)
Max Grav 2=2125(LC 2), 11=2067(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4261/68, 3-5=-4000/61, 5-6=-3366/105, 6-7=-3812/130, 7-8=-3819/126,
8-9=-3940/100, 9-10=-5017/63, 10-11=-786/30
BOT CHORD 2-18=-84/3810, 16-18=-11/3472, 15-16=0/270, 7-14=-680/96, 13-14=0/3546,
12-13=0/4738, 10-12=0/4732
WEBS 3-18=-274/101, 5-18=0/385, 5-16=-711/104, 6-16=-8/340, 14-16=0/2801, 6-14=-31/1120,
8-14=-40/668, 8-13=0/793, 9-13=-1436/110, 9-12=0/274

NOTES-

- Attached 11-0-9 scab 9 to 11, front face(s) 2x10 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-12 from end at joint 9, nail 2 row(s) at 7" o.c. for 3-9-4; starting at 5-5-1 from end at joint 9, nail 2 row(s) at 2" o.c. for 3-4-0.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Continued on page 2



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172645
2335469	A05	Hip	1	1	Job Reference (optional)	

- NOTES-**
- 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 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.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172646
2335469	B01	Hip	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:02 2020 Page 1

ID:tnOHGeVPJTy41JASwyTKzhfUX-aiA_L_RYNz4l4rgzulScLUgrxNtoyAGDr8vKJmzKpgd

5-9-11	11-3-14	18-8-2	24-0-4	29-4-6	34-8-8	38-0-0	38-10-8
5-9-11	5-6-3	7-4-3	5-4-2	5-4-2	5-4-2	3-3-8	0-10-8

Scale = 1:69.9

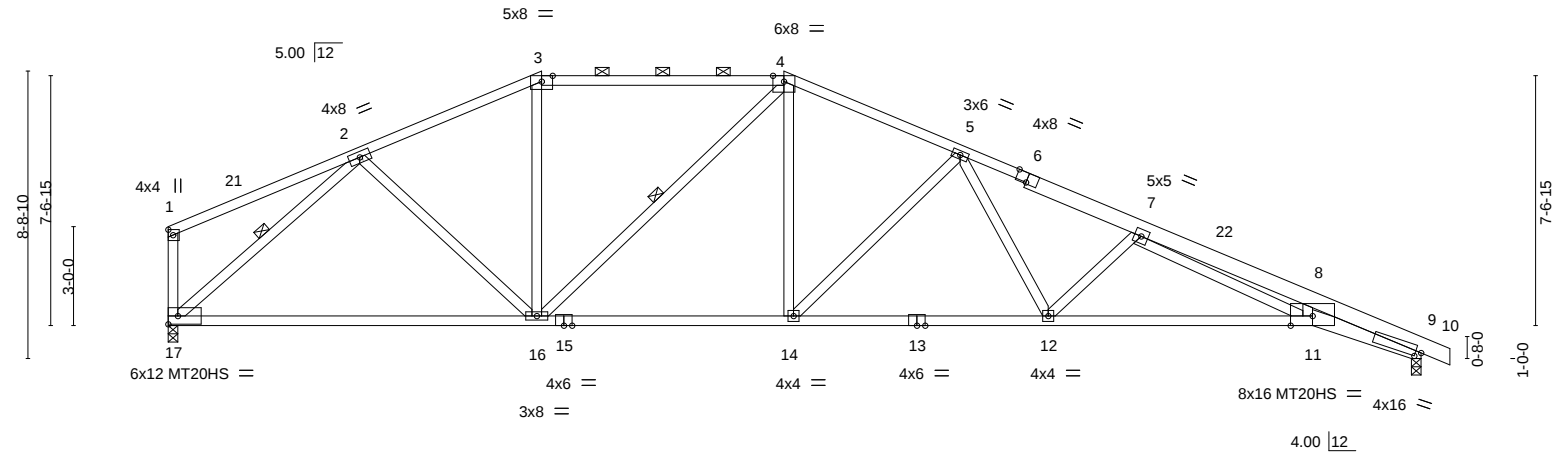


Plate Offsets (X,Y)--	[6:0-4-0,Edge], [8:0-1-12,0-0-12], [9:0-2-1,0-1-13]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.35 16-17	>999	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.74 16-17	>612	180	MT20HS	148/108
TCDL 10.0	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.26 9	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS						
BCDL 10.0								Weight: 175 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-5-15 max.): 3-4.
BOT CHORD 2x4 SPF 1650F 1.5E *Except*	BOT CHORD Rigid ceiling directly applied.
WEBS 9-11: 2x6 SPF 2100F 1.8E, 13-15: 2x4 SPF No.2	WEBS 1 Row at midpt 4-16, 2-17
2x4 SPF No.2	

REACTIONS.	(size)	17=0-3-8, 9=0-3-8
Max Horz	17=-103(LC 8)	
Max Uplift	17=-5(LC 12), 9=-55(LC 13)	
Max Grav	17=1709(LC 35), 9=1765(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2093/69, 3-4=-1870/75, 4-5=-2480/77, 5-7=-3768/103, 7-8=-6649/187, 8-9=-7110/126, 1-17=-260/32
BOT CHORD	16-17=0/1608, 14-16=0/2230, 12-14=0/2900, 11-12=-34/4074, 9-11=-80/6566
WEBS	2-16=0/504, 3-16=0/393, 4-16=-629/61, 4-14=-18/872, 5-14=-1050/105, 5-12=-12/1021, 7-12=-1002/115, 7-11=-69/2384, 8-11=0/797, 2-17=-2036/53

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 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.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172647
2335469	B02	Hip	1	1		

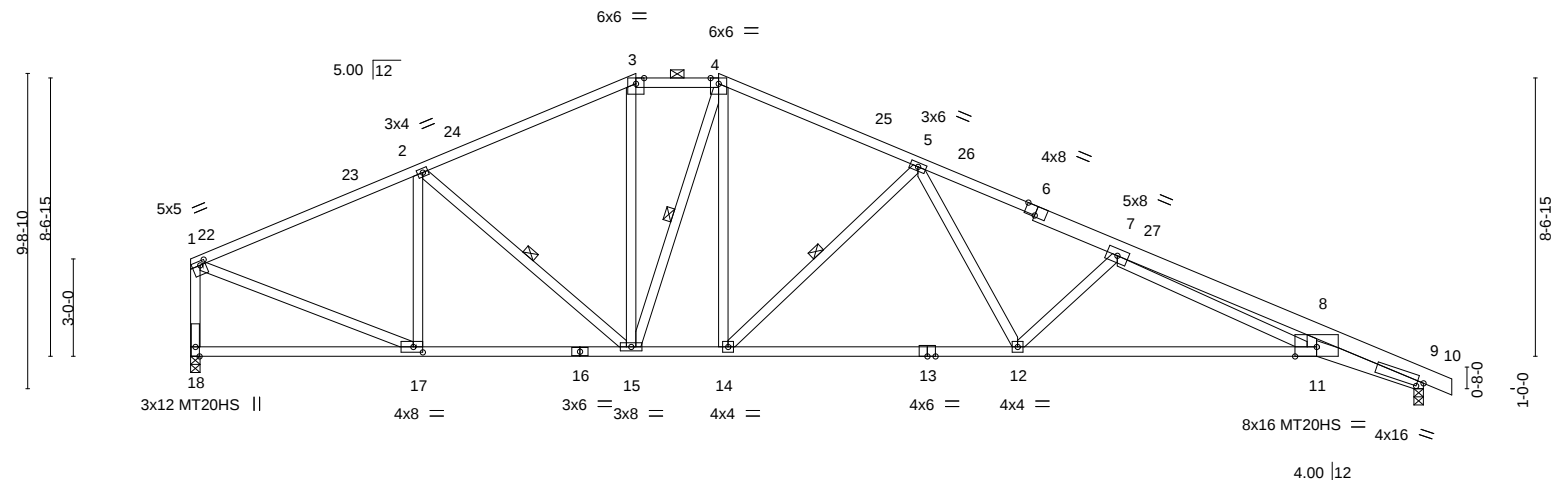
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:04 2020 Page 1

ID:tnOHGeVPJTiy41JASwyTKzhfUX-X4lmgTpvaqTJ8qM?AU4Qvm9hAZoQ9DVISORoezKpgb

7-0-2	13-8-11	16-3-5	22-5-1	28-6-12	34-8-8	38-0-0	38-10-8
7-0-2	6-8-10	2-6-10	6-1-12	6-1-12	6-1-12	3-3-8	0-10-8

Scale = 1:71.0



7-0-2	13-8-11	16-3-5	25-5-14	34-8-8	38-0-0
7-0-2	6-8-10	2-6-10	9-2-10	9-2-10	3-3-8

Plate Offsets (X,Y)-- [1:0-2-0,0-1-8], [6:0-4-0,Edge], [8:0-1-12,0-0-12], [9:0-2-5,0-1-13], [17:0-3-8,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.39 11-12	>999	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.82 11-12	>556	180	MT20HS	148/108
TCDL 10.0	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.25 9	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS						
BCDL 10.0								Weight: 187 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 6-10: 2x6 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-10-12 max.): 3-4.
BOT CHORD 2x4 SPF 1650F 1.5E *Except* 9-11: 2x6 SPF 2100F 1.8E, 13-16: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 2-15, 4-15, 5-14

REACTIONS. (size) 18=0-3-8, 9=0-3-8
Max Horz 18=-111(LC 13)
Max Uplift 18=-18(LC 12), 9=-63(LC 13)
Max Grav 18=1830(LC 35), 9=1765(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2157/37, 2-3=-2157/90, 3-4=-1878/89, 4-5=-2279/95, 5-7=-3724/125,
7-8=-6696/227, 8-9=-7131/153, 1-18=-1761/42
BOT CHORD 15-17=0/1908, 14-15=0/2001, 12-14=0/2840, 11-12=-52/3987, 9-11=-107/6583
WEBS 2-17=-595/61, 3-15=-19/481, 4-15=-560/49, 4-14=-28/919, 5-14=-1150/121,
5-12=-13/1041, 7-12=-985/132, 8-11=0/827, 1-17=0/1966, 7-11=-83/2629

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172648
2335469	B03	Roof Special	2	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:05 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-?Hs7_OTRguyKxIPYZu?Jy7Ilpauv9b1fX68_w5zKpqa

8-3-7	15-0-0	21-6-13	28-1-11	34-8-8	38-0-0	38-10-8
8-3-7	6-8-10	6-6-13	6-6-13	6-6-13	3-3-8	0-10-8

Scale = 1:68.5

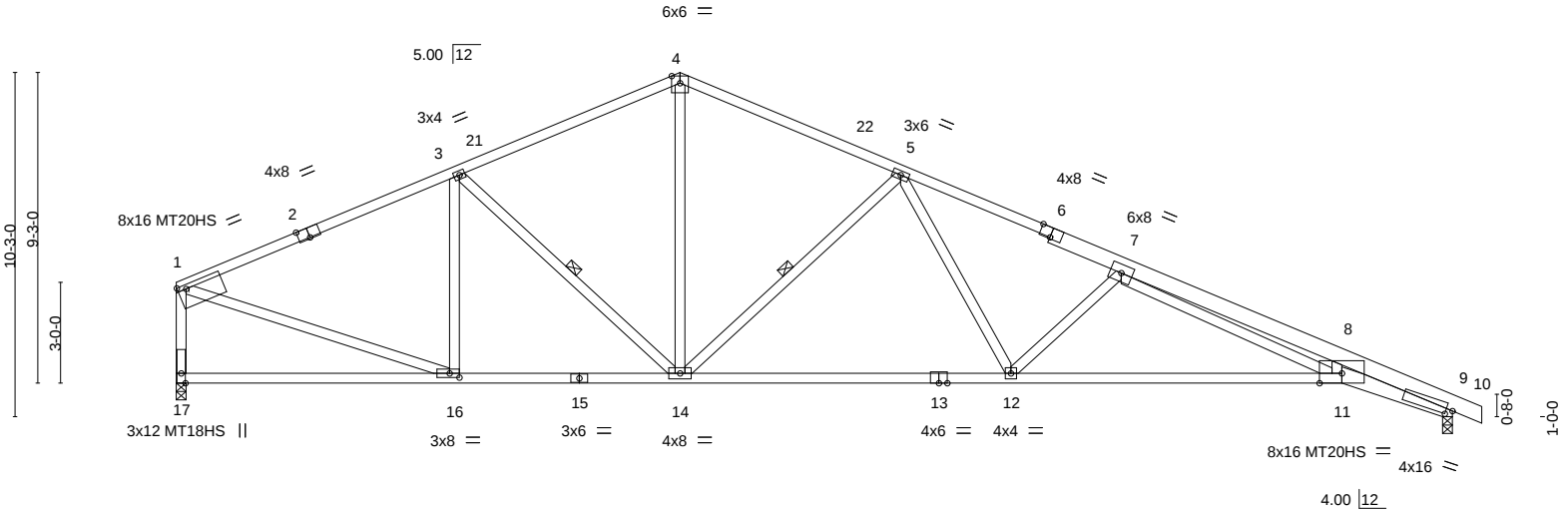


Plate Offsets (X,Y)--	[1:0-3-0,0-1-8], [2:0-4-0,Edge], [6:0-4-0,Edge], [8:0-1-12,0-0-12], [9:0-2-5,0-1-13], [16:0-3-8,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.41 11-12	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.89 11-12	>509	180	MT20HS	148/108
TCDL 10.0	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.25 9	n/a	n/a	MT18HS	197/144
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 173 lb	FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals.
6-10: 2x6 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied.
BOT CHORD 2x4 SPF 1650F 1.5E *Except*	WEBS 1 Row at midpt 3-14, 5-14
9-11: 2x6 SPF 2100F 1.8E, 13-15: 2x4 SPF No.2	
WEBS 2x4 SPF No.2	

REACTIONS.	(size)	17=0-3-8, 9=0-3-8
Max Horz	17=-116(LC 13)	
Max Uplift	17=-24(LC 12), 9=-67(LC 13)	
Max Grav	17=1703(LC 2), 9=1765(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-2098/57, 3-4=-1997/113, 4-5=-1984/101, 5-7=-3447/134, 7-8=-6720/245, 8-9=-7148/164, 1-17=-1618/56
BOT CHORD	14-16=0/1843, 12-14=0/2571, 11-12=-59/3769, 9-11=-117/6596
WEBS	3-16=-444/60, 3-14=-301/127, 4-14=-18/1020, 5-14=-1129/131, 5-12=-13/1059, 7-12=-994/141, 8-11=0/746, 1-16=0/1824, 7-11=-90/2740

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 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.
 - 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.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

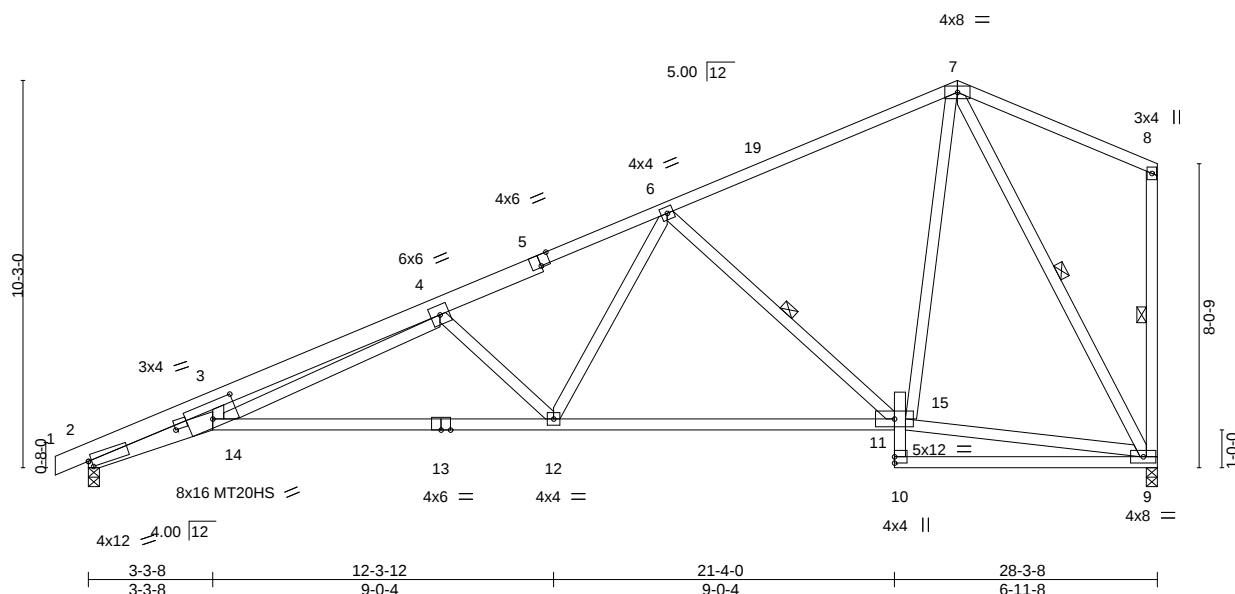
Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172649
2335469	C01	Roof Special	1	1		

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

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ID:tnOHGeVPJTyi411JASwyTKzhfUX-TTPVBLU3RC4AZS_I7bWYVkrSa_Ddu1AommtYSXzKpgZ

-0-10-8	3-3-8	9-3-11	15-3-13	21-4-0	23-0-0	28-3-8
0-10-8	3-3-8	6-0-3	6-0-3	6-0-3	1-8-0	5-3-8



Scale = 1:61.0

Plate Offsets (X,Y)-- [2:0-1-1,0-2-1], [2:2-5-8,0-0-11], [3:0-1-14,0-0-0], [5:0-3-0,Edge], [14:0-8-0,0-5-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.82	Vert(LL) -0.29	12-14	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.91	Vert(CT) -0.62	12-14	>541	180	MT20HS	148/108
TCDL 10.0	Lumber DOL 1.15	WB 0.74	Horz(CT) 0.23	9	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS						
BCDL 10.0	Code IRC2018/TPI2014							

Weight: 149 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-5: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-14: 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-11, 8-9, 7-9

REACTIONS.

(size) 2=0-3-8, 9=0-3-8
Max Horz 2=238(LC 11)
Max Uplift 2=-56(LC 12), 9=-47(LC 12)
Max Grav 2=1329(LC 2), 9=1266(LC 2)

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

TOP CHORD 2-3=-5230/273, 3-4=-4922/336, 4-6=-2270/130, 6-7=-940/93
BOT CHORD 2-14=-333/4833, 12-14=-174/2587, 11-12=-100/1576
WEBS 3-14=0/562, 4-12=-833/134, 6-12=-16/919, 6-11=-1109/145, 7-11=-32/1004,
9-11=-63/607, 7-9=-1284/53, 4-14=-186/2210

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- 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.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172650
2335469	C02	Hip	1	1		

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

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ID:tpjOHGeVPJTyi41JASwyTKzhfUX-PsXFc1WJzpKuom87E0Z0alwoAnv4M_i5D4MfXPzKpgX

Job Reference (optional)

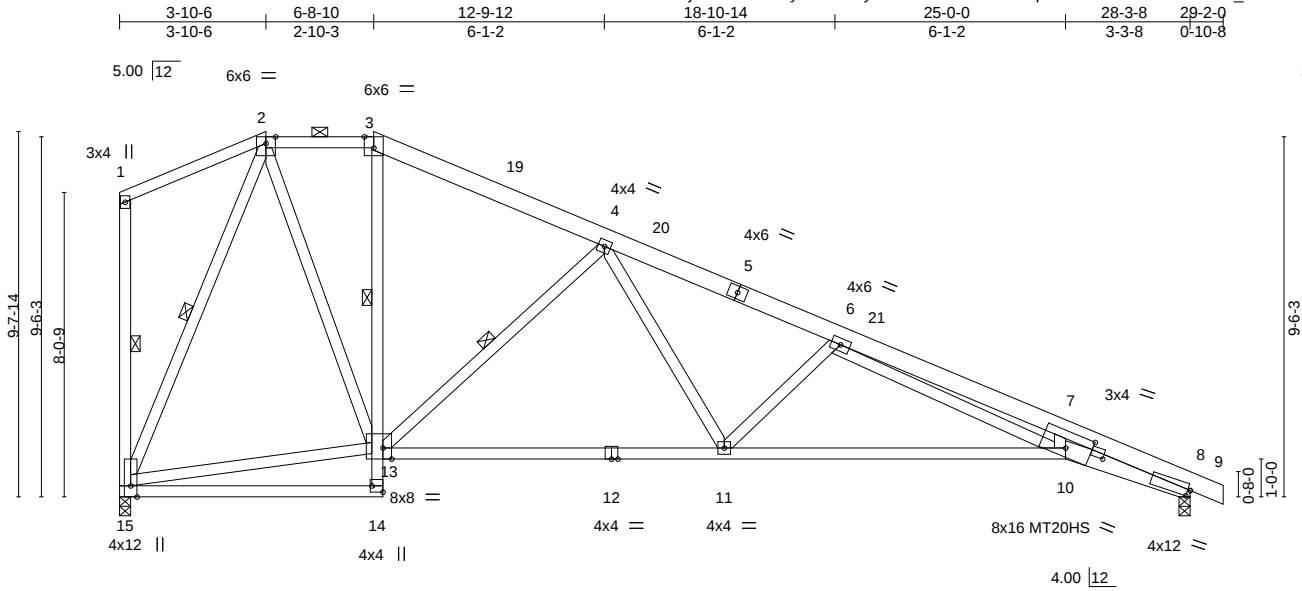


Plate Offsets (X,Y)--		[3:0-3-0,Edge], [7:0-1-14,0-0-0], [8:2-5-8,0-0-11], [8:0-0-13,0-2-1], [10:0-8-0,0-5-4], [13:0-2-12,Edge], [14:Edge,0-3-8]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	25.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.82
		BC	0.91
		WB	0.55
		Matrix-AS	
		DEFL.	
		in (loc)	l/defl
		Vert(LL)	-0.28 10-11 >999 240
		Vert(CT)	-0.61 10-11 >554 180
		Horz(CT)	0.19 8 n/a n/a
		PLATES	GRIP
		MT20	197/144
		MT20HS	148/108
		Weight: 162 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 3-5,5-9: 2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD	2x4 SPF No.2 *Except* 8-10: 2x6 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied. Except:
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 3-13 1 Row at midpt 4-13, 1-15, 2-15

REACTIONS. (size) 15=0-3-8, 8=0-3-8
Max Horz 15=-238(LC 10)
Max Uplift 15=-34(LC 13), 8=-55(LC 13)
Max Grav 15=1294(LC 35), 8=1329(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-805/85, 3-4=-990/72, 4-6=-2370/100, 6-7=-4875/200, 7-8=-5206/124
BOT CHORD 11-13=0/1643, 10-11=-27/2656, 8-10=-80/4805
WEBS 13-15=0/436, 2-13=-29/1008, 4-13=-1145/124, 4-11=-7/951, 6-11=-856/124,
6-10=-83/2123, 7-10=0/617, 2-15=-1225/39

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 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.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172651
2335469	C03	Hip	1	1		

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

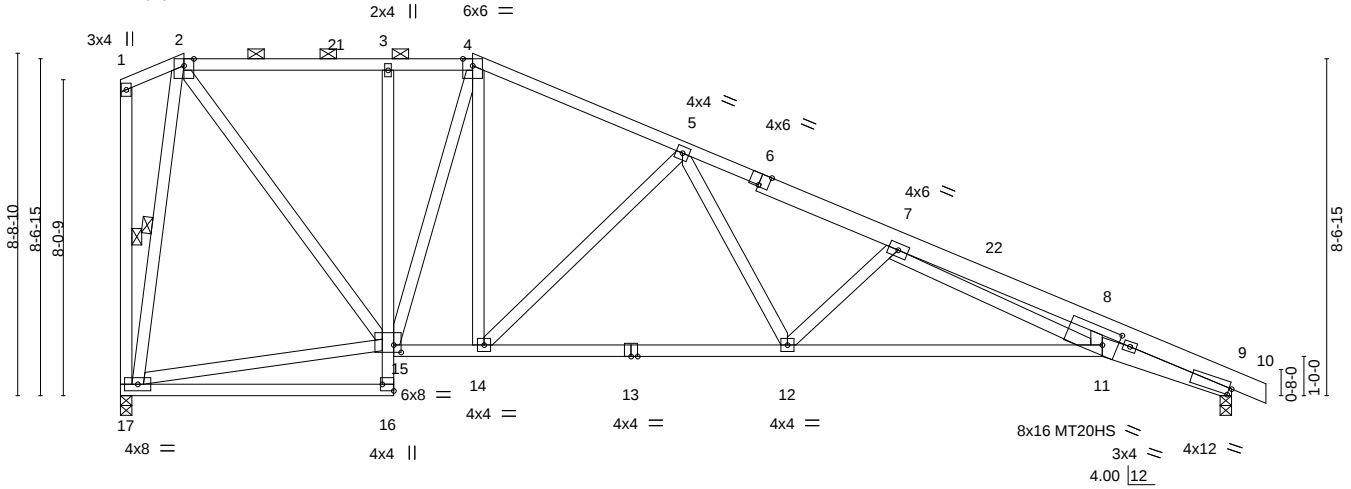
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:10 2020 Page 1

ID:tnOHGeVPJTiyi41JASwyTKzhfUX-LEf01jXZVQbc13HWMRbUfA08HbcGgneOhOrblzKpgV

1-7-6	6-11-8	8-11-10	14-3-12	19-7-14	25-0-0	28-3-8	29-2-0
1-7-6	5-4-2	2-0-2	5-4-2	5-4-2	5-4-2	3-3-8	0-10-8

5.00 $\sqrt{12}$ 6x6 =

Scale = 1:58.7



1-7-6	6-11-8	8-11-10	16-11-13	25-0-0	28-3-8
1-7-6	5-4-2	2-0-2	8-0-3	8-0-3	3-3-8

Plate Offsets (X,Y)-- [6:0-3-0,Edge], [8:0-1-14,0-0-0], [9:0-0-13,0-2-1], [11:0-4-8,0-5-0], [15:0-2-4,0-2-4], [16:Edge,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.26 11-12	>999	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.54 11-12	>628	180	MT20HS	148/108
TCDL 10.0	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.18 9	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS						
BCDL 10.0								Weight: 165 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
6-10: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
9-11: 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-8-2 max.): 2-4.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-17, 2-17

REACTIONS.

(size) 9=0-3-8, 17=0-3-8
Max Horz 17=-238(LC 10)
Max Uplift 9=-52(LC 13), 17=-51(LC 8)
Max Grav 9=1329(LC 2), 17=1266(LC 2)

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

TOP CHORD 2-3=-901/71, 3-4=-898/70, 4-5=-1235/69, 5-7=-2463/95, 7-8=-4874/178, 8-9=-5202/115
BOT CHORD 3-15=-395/59, 14-15=0/1063, 12-14=0/1748, 11-12=-26/2777, 9-11=-71/4807
WEBS 2-15=-18/1172, 4-15=-719/38, 4-14=-14/842, 5-14=-1023/106, 5-12=-11/910, 7-12=-869/114, 7-11=-68/2002, 8-11=0/583, 2-17=-1234/113

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 17.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172652
2335469	C04	Half Hip	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:11 2020 Page 1

ID: tjnOHGeVPJTyi41JASwyTKzhfUX-qRDOE3YCGkjTfDsiw86jCOYNg?wYZHuXv1bJ7kzKpgU

Job Reference (optional)

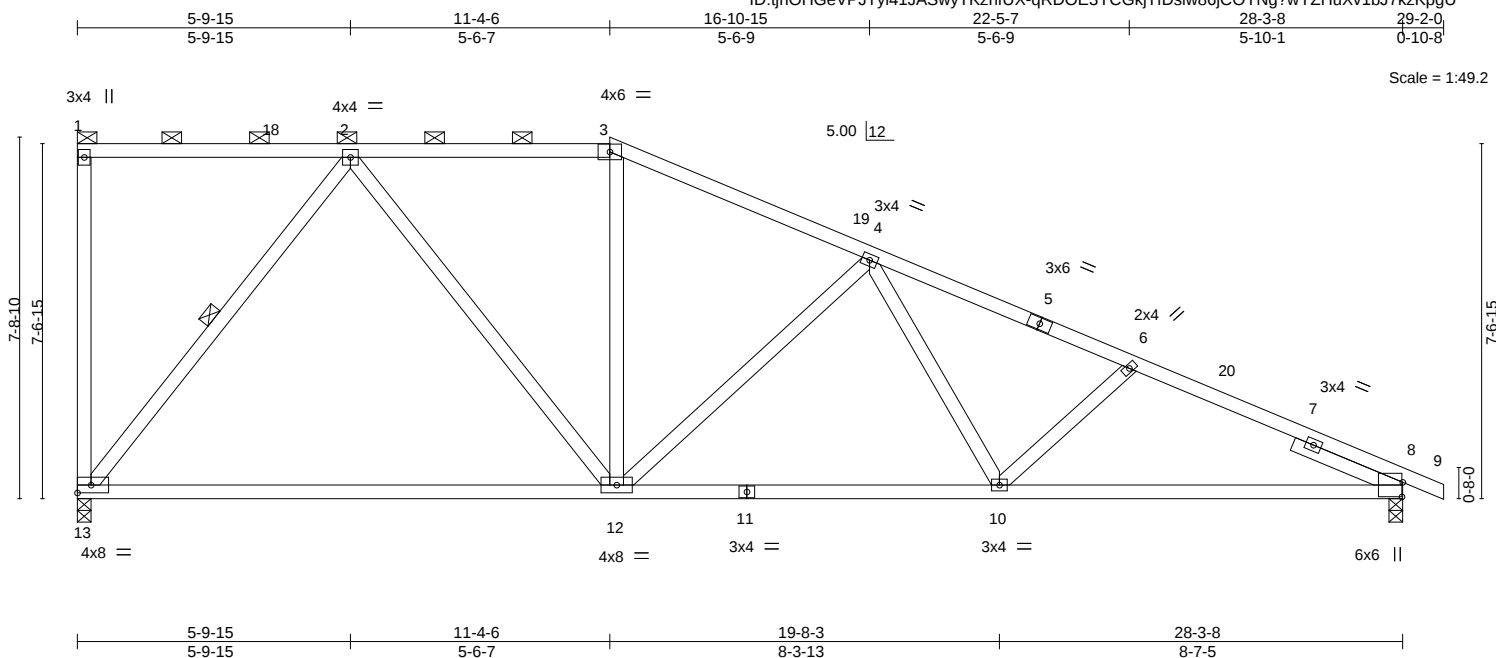


Plate Offsets (X,Y)-- [8-0-3-11, 0-0-3]									
LOADING (psf)		SPACING		CSI		DEFL.		PLATES	
TCLL (roof)	25.0	2-0-0		TC	0.55	in (loc)	l/def	MT20	GRIP
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15	BC	0.92	Vert(LL)	>780		197/144
TCDL	10.0	Lumber DOL	1.15	WB	0.78	Vert(CT)	>385		
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.06 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014						Weight: 125 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Right 2x4 SPF No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-11-13 max.): 1-3.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13

REACTIONS. (size) 13=0-3-8, 8=0-3-8
Max Horz 13=-221(LC 10)
Max Uplift 13=-67(LC 8), 8=-47(LC 13)
Max Grav 13=1266(LC 2), 8=1329(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1217/78, 3-4=-1393/68, 4-6=-2115/90, 6-8=-2329/100
BOT CHORD 12-13=0/796, 10-12=0/1712, 8-10=-40/2100
WEBS 2-13=-1249/107, 2-12=-16/764, 4-12=-801/111, 4-10=-1/389, 6-10=-315/91

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 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.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172653
2335469	C05	Half Hip	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:13 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-mpL8flaSnLzBuX051Z8BhpdhMod31FMqNL4PCdzKpgS

2-1-8	7-11-6	13-9-3	17-5-8	21-5-12	23-3-5	24-4-8	25-6-0	28-3-8	29-2-0
2-1-8	5-9-14	5-9-14	3-8-5	4-0-4	1-9-9	1-1-3	1-1-8	2-9-8	0-10-8

Scale = 1:49.7

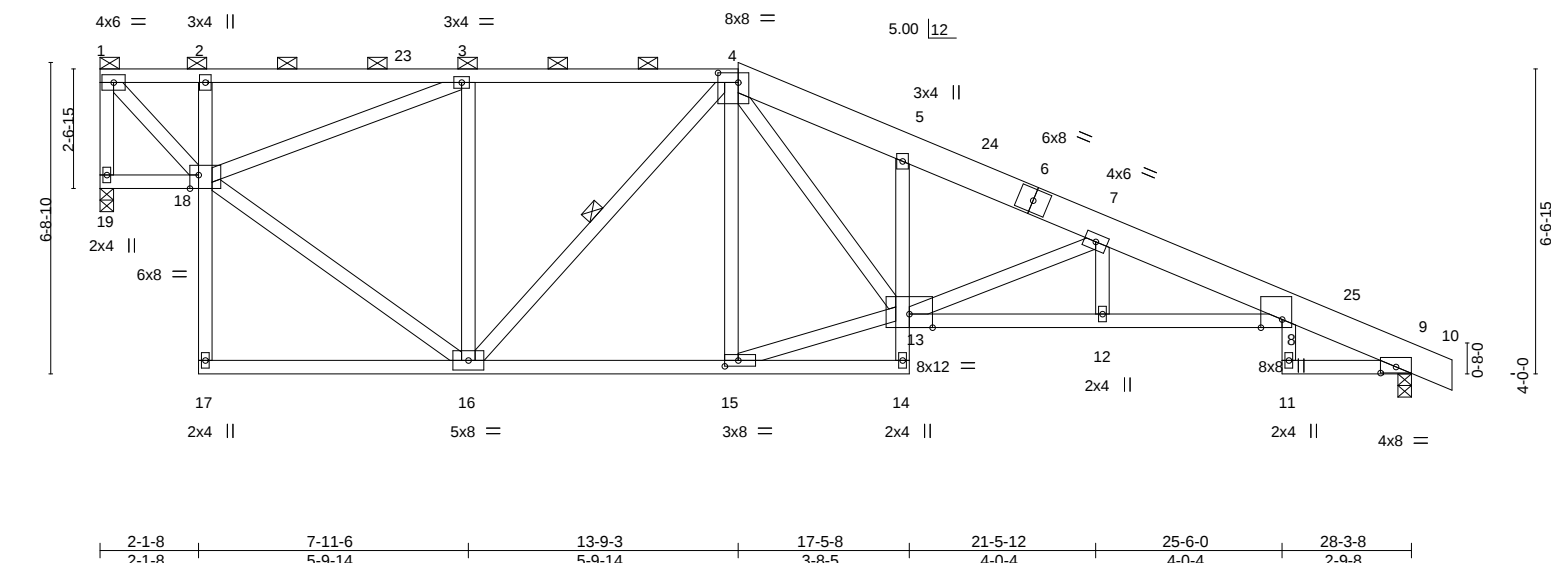


Plate Offsets (X,Y)-- [4:0-5-4,0-2-8], [8:0-2-2,Edge], [9:0-4-0,0-1-9], [15:0-3-8,0-1-8], [18:0-2-4,Edge]																			
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL (roof) 25.0		Plate Grip DOL 1.15		TC 0.66		Vert(LL) -0.26 8-12		>999		240		MT20		197/144					
Snow (Pf/Pg) 20.4/20.0		Lumber DOL 1.15		BC 0.86		Vert(CT) -0.47 8-12		>722		180									
TCDL 10.0		Rep Stress Incr YES		WB 0.52		Horz(CT) 0.16 9		n/a		n/a									
BCLL 0.0		Code IRC2018/TPI2014		Matrix-AS												Weight: 173 lb		FT = 20%	
BCDL 10.0																			

LUMBER-

TOP CHORD 2x8 SP 2400F 2.0E *Except*
1-4: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
8-13: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-0-10 max.): 1-4.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-16

REACTIONS.

(size) 19=0-3-8, 9=0-3-8
Max Horz 19=-146(LC 8)
Max Uplift 19=-45(LC 8), 9=-55(LC 13)
Max Grav 19=1266(LC 2), 9=1329(LC 2)

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

TOP CHORD 1-19=-1200/50, 1-2=-1091/56, 2-3=-1127/64, 3-4=-1178/113, 4-5=-2396/139,
5-7=-2494/97, 7-8=-3452/118, 8-9=-485/44
BOT CHORD 2-18=-343/60, 15-16=0/1444, 12-13=-52/3403, 8-12=-53/3411
WEBS 1-18=-62/1567, 16-18=0/1418, 3-16=-522/63, 4-16=-495/20, 4-15=-272/33,
13-15=0/1392, 4-13=-66/1409, 7-13=-1374/81

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 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.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172654
2335469	C06	Half Hip	1	1		

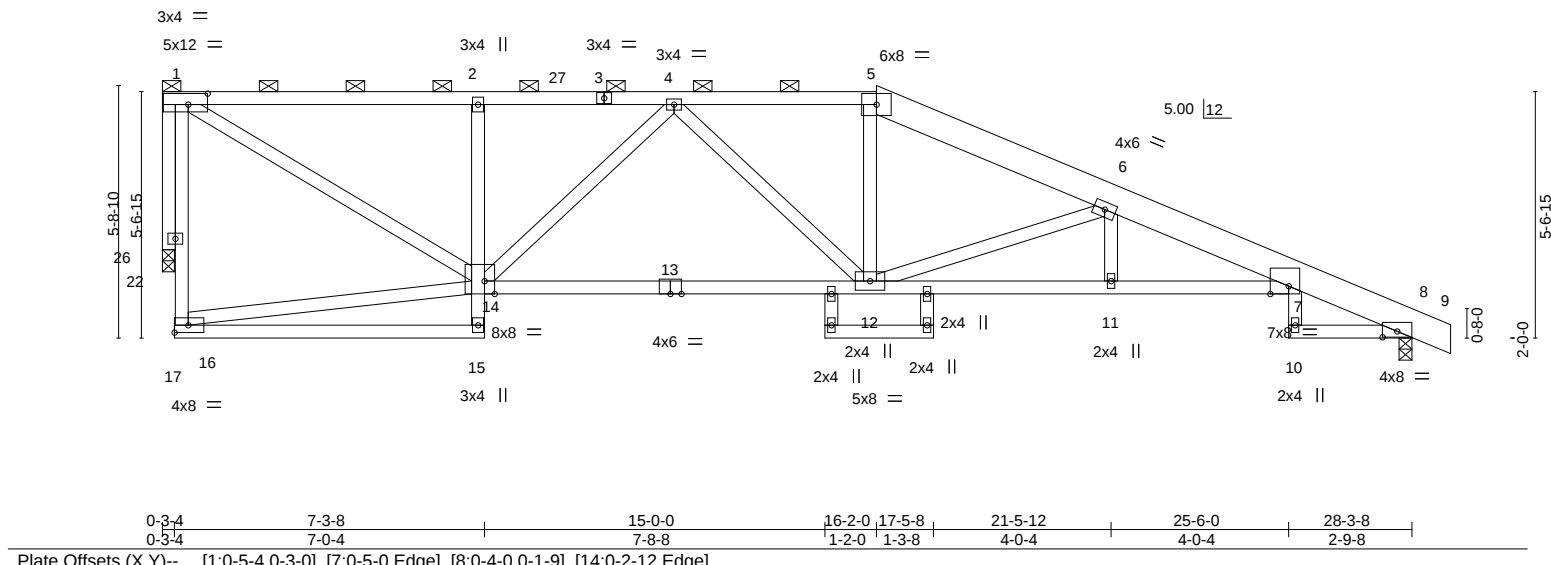
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:15 2020 Page 1

ID:tnOHGeVPJTty41JASwyTKzhfUX-iCSv4QbiJzDv8qAT9_BfMEj1ocK0V587qfZWGVzKpgQ

7-3-8	11-7-0	15-0-0	16-2-0	17-5-8	21-5-12	25-6-0	28-3-8	29-2-0
7-3-8	4-3-8	3-5-0	1-2-0	1-3-8	4-0-4	4-0-4	2-9-8	0-10-8

Scale = 1:52.2



0-3-4	7-3-8	15-0-0	16-2-0	17-5-8	21-5-12	25-6-0	28-3-8
0-3-4	7-0-4	7-8-8	1-2-0	1-3-8	4-0-4	4-0-4	2-9-8

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

LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) -0.28 7-11 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.50 7-11 >671 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.26 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 157 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
5-9: 2x8 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
7-13: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-5-13 max.): 1-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 8=0-3-8, 26=0-3-4
Max Horz 26=-122(LC 8)
Max Uplift 8=-32(LC 13), 26=-54(LC 9)
Max Grav 8=1329(LC 2), 26=1296(LC 31)

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

TOP CHORD 1-2=-1650/93, 2-4=-1640/86, 4-5=-2088/77, 5-6=-2327/74, 6-7=-3373/57, 7-8=-485/34
BOT CHORD 2-14=-517/78, 12-14=-11/2003, 11-12=-2/3317, 7-11=-3/3324
WEBS 5-12=0/546, 6-12=-1432/100, 4-12=-84/306, 4-14=-534/38, 1-14=-62/1802, 1-26=-1303/54

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 26.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172655
2335469	C07	Half Hip	1	1		

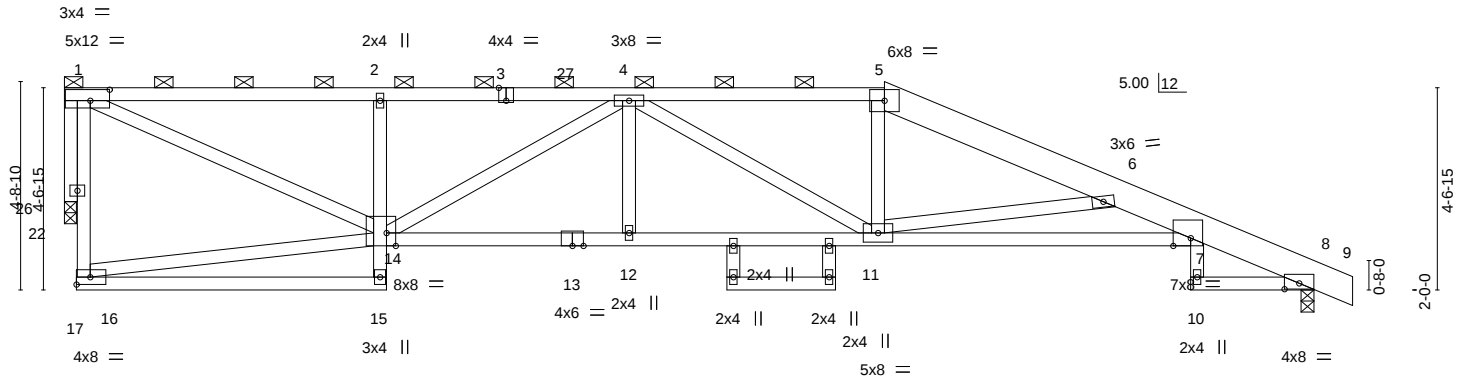
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:16 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-AO0HHmcK4GLml_IgiuvRFCE0frEZSH3Jl4pyzKpgP

7-3-8	12-9-6	15-0-0	17-5-8	18-6-13	25-6-0	28-3-8	29-2-0
7-3-8	5-5-14	2-2-10	2-5-8	1-1-5	6-11-3	2-9-8	0-10-8

Scale = 1:52.2



0-3-4	7-3-8	12-9-6	15-0-0	17-5-8	18-6-13	25-6-0	28-3-8
0-3-4	7-0-4	5-5-14	2-2-10	2-5-8	1-1-5	6-11-3	2-9-8
Plate Offsets (X,Y)-- [1:0-5-4,0-3-0], [3:0-2-0,Edge], [7:0-4-12,Edge], [8:0-4-0,0-1-9], [14:0-2-8,Edge]							
LOADING (psf)		SPACING		CSI		DEFL.	
TCLL (roof)	25.0	2-0-0		TC	0.69	in (loc)	l/defl
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15	BC	0.85	Vert(LL)	-0.34 7-11 >985 240
TCDL	10.0	Lumber DOL	1.15	WB	0.76	Vert(CT)	-0.66 7-11 >512 180
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.29 8 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014					
						PLATES	GRIP
						MT20	197/144
						Weight: 149 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
5-9: 2x8 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
7-13: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and
2-0-0 oc purlins (2-10-4 max.): 1-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 8=0-3-8, 26=0-3-4
Max Horz 26=-103(LC 8)
Max Uplift 8=-32(LC 9), 26=-58(LC 9)
Max Grav 8=1329(LC 2), 26=1347(LC 31)

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

TOP CHORD 1-2=-2239/131, 2-4=-2239/126, 4-5=-2556/104, 5-6=-2700/102, 6-7=-4009/104,
7-8=-485/35
BOT CHORD 2-14=-553/86, 12-14=-59/2822, 11-12=-59/2822, 7-11=-57/4003
WEBS 5-11=0/440, 6-11=-1532/87, 4-11=-442/93, 4-14=-736/19, 1-14=-96/2306,
1-26=-1363/60

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 26.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172656
2335469	C08	Half Hip	1	1		

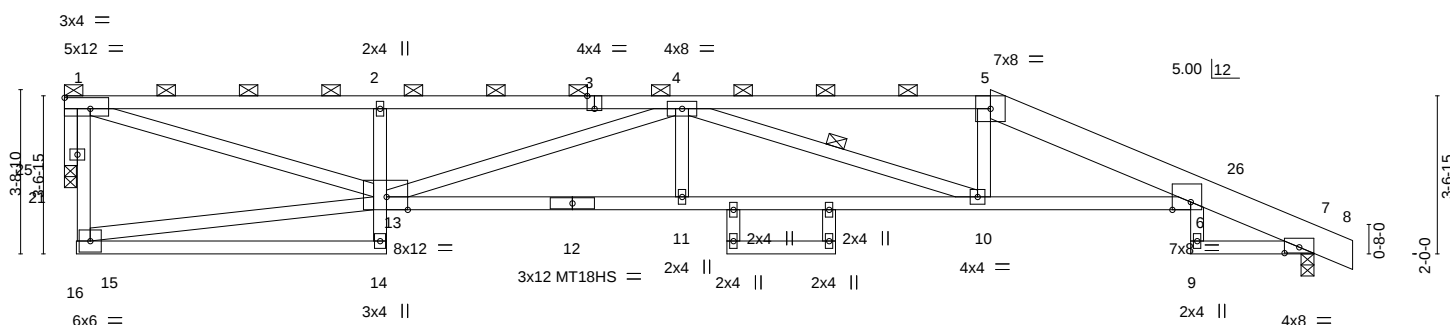
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:18 2020 Page 1

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-6n81iSebcubT?lu2q7kM_sLVZpKYiQOZWdnAtqzKpgN

7-3-8	13-11-13	15-0-0	17-5-8	20-11-10	25-6-0	28-3-8	29-2-0
7-3-8	6-8-5	1-0-3	2-5-8	3-6-2	4-6-6	2-9-8	0-10-8

Scale = 1:52.2



0-3-4	7-3-8	13-11-13	15-0-0	17-5-8	20-11-10	25-6-0	28-3-8
0-3-4	7-0-4	6-8-5	1-0-3	2-5-8	3-6-2	4-6-6	2-9-8

Plate Offsets (X,Y)-- [1:Edge,0-3-0], [3:0-2-0,Edge], [6:0-5-0,Edge], [7:0-4-0,0-1-9], [13:0-5-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.44	11	>774	240	MT20 197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.77	11-13	>440	180	MT18HS 197/144
TCDL 10.0	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.28	7	n/a	n/a	
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS						
BCDL 10.0									

Weight: 133 lb FT = 20%

LUMBER-

TOP CHORD	2x4 SPF No.2 *Except*
	5-8: 2x8 SP 2400F 2.0E, 3-5: 2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF No.2 *Except*
	12-13,6-12: 2x4 SPF 1650F 1.5E
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 1-5.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-10

REACTIONS.

(size) 7=0-3-8, 25=0-3-4
Max Horz 25=-84(LC 8)
Max Uplift 7=-45(LC 9), 25=-62(LC 9)
Max Grav 7=1329(LC 2), 25=1387(LC 31)

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

TOP CHORD	1-2=-3294/190, 2-4=-3371/186, 4-5=-3193/141, 5-6=-3236/138, 6-7=-485/40
BOT CHORD	2-13=-595/94, 11-13=-152/4340, 10-11=-152/4340, 6-10=-80/3174
WEBS	5-10=0/378, 4-11=0/281, 4-10=-1210/79, 4-13=-1022/33, 1-13=-148/3239, 1-25=-1437/66

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 25.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172657
2335469	C09	Half Hip Girder	1	2	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:22 2020 Page 1
ID:tjnOHGeVPJTYi411JASwyTKzhfUX-?YNYqH5g65vTvCp3ypI9iVBaQgBeEd9RFIO0bzKpgJ

3-7-8

6-11-8

11-6-4

15-0-0

16-2-12

17-5-8

19-8-11

23-4-6

25-6-0

28-3-8

29-2-0

3-7-8

3-4-0

4-6-12

3-5-12

1-2-12

1-2-12

2-3-3

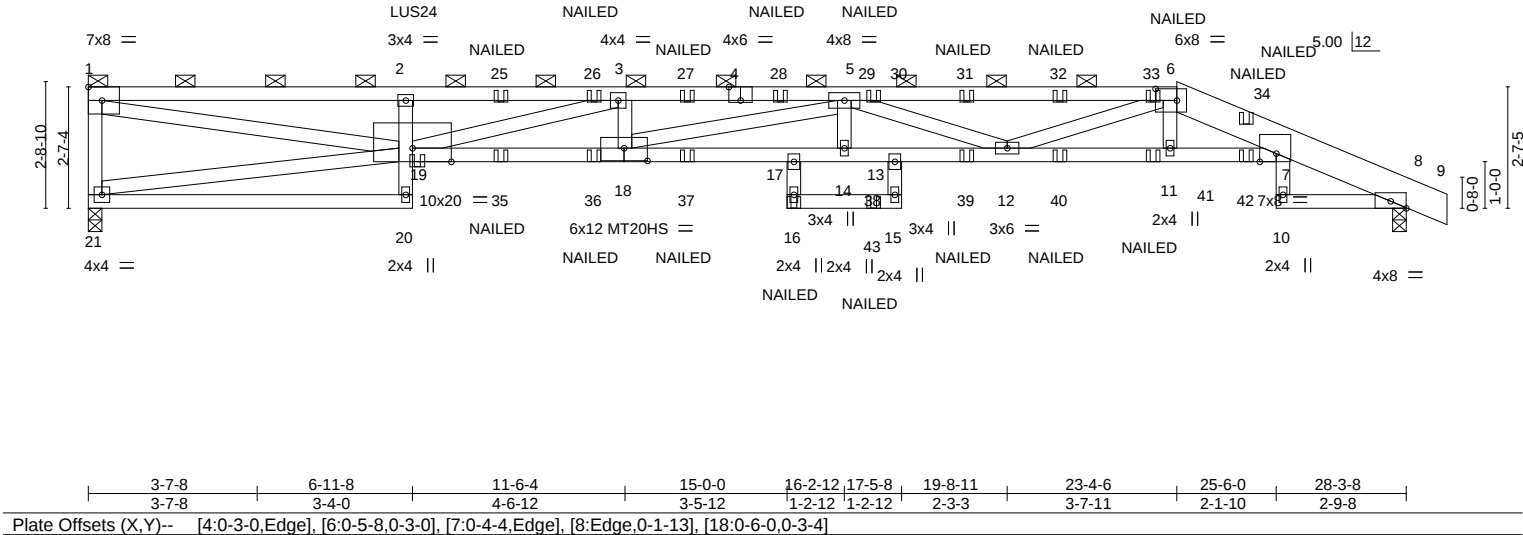
3-7-11

2-1-10

2-9-8

0-10-8

Scale = 1:49.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	2-0-0	TC	0.82	in (loc)	l/defl	MT20		197/144	
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.98	Vert(LL)	>445	MT20HS		148/108	
TCDL	10.0	Rep Stress Incr	NO	WB	0.90	Vert(CT)	>301				
BCLL	0.0	Code IRC2018/TPI2014		Matrix-MS		Horz(CT)	n/a				
BCDL	10.0										
								Weight: 267 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 1650F 1.5E *Except* 6-9: 2x8 SP 2400F 2.0E, 4-6: 2x4 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-0 max.): 1-6.
BOT CHORD	2x4 SPF No.2 *Except* 18-19: 2x4 SPF 1650F 1.5E, 7-18: 2x4 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-8-4 oc bracing: 18-19 8-4-3 oc bracing: 17-18 8-4-12 oc bracing: 12-13.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 21=0-3-8, 8=0-3-8
Max Horz 21=-73(LC 47)
Max Uplift 21=-731(LC 8), 8=-583(LC 9)
Max Grav 21=1988(LC 67), 8=1881(LC 59)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-1819/705, 1-2=-8114/3324, 2-3=-8828/3698, 3-5=-11910/5403, 5-6=-9105/3466, 6-7=-6249/2123, 7-8=-722/263
BOT CHORD 20-21=-314/789, 2-19=-765/243, 18-19=-5349/11928, 17-18=-4643/11482, 14-17=-4564/11299, 13-14=-4568/11249, 12-13=-4647/11432, 11-12=-2099/6344, 7-11=-2121/6409
WEBS 19-21=-647/347, 1-19=-3344/8130, 3-19=-3207/1777, 3-18=0/495, 5-18=-733/720, 5-12=-2501/1330, 6-11=-342/145, 5-14=0/357, 6-12=-1406/2952

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=731, 8=583.

Continued on page 2



May 4,2020

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172657
2335469	C09	Half Hip Girder	1	2	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:23 2020 Page 2
ID:tjnOHGeVPJTyi41JASwyTKzhfUX-Tkxwl9hjRQDm53n0dgKXhw2MKq0QNgtlgvVxY2zKpgl

- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 7-0-12 from the left end to connect truss(es) to back face of top chord.
 - 14) Fill all nail holes where hanger is in contact with lumber.
 - 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-6=-61, 6-9=-51, 20-21=-20, 17-19=-20, 7-13=-20, 15-16=-20, 10-22=-20
 - Concentrated Loads (lb)
 - Vert: 2=-251(B) 17=-17(B) 25=-75(B) 26=-75(B) 27=-75(B) 28=-75(B) 30=-68(B) 31=-36(B) 32=-36(B) 33=-38(B) 34=-75(B) 35=-17(B) 36=-17(B) 37=-17(B) 38=-25(B) 39=-57(B) 40=-57(B) 41=-57(B) 42=-107(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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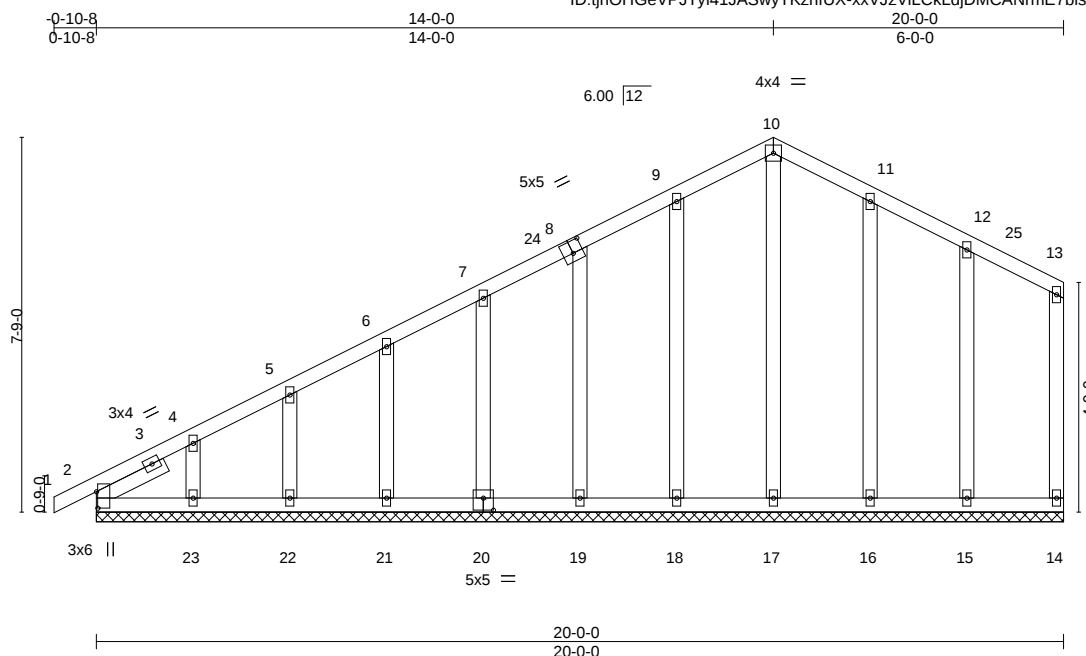


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss D01	Truss Type GABLE	Qty 1	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional) I41172658
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:24 2020 Page 1
ID:tjnOHGeVPJTyi41JASwyTKzhfUX-xxVJzViLCKldjDMCANrmE7bisEac6J9SvZEV5UzKpgH



Scale: 1/4"=1'

Plate Offsets (X,Y)-- [2:0-4-1,0-0-5], [8:0-2-8,0-3-0], [20:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.07	Vert(LL) -0.00	1	n/r	120		MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT) -0.00	1	n/r	120			
TCDL 10.0	Lumber DOL 1.15	WB 0.13	Horz(CT) -0.00	14	n/a	n/a			
BCLL 0.0	Rep Stress Incr YES	Matrix-S							
BCDL 10.0	Code IRC2018/TPI2014								
								Weight: 103 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 1-7-3

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

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 2=163(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 14, 2, 17, 18, 19, 20, 21, 22, 23, 16, 15
Max Grav All reactions 250 lb or less at joint(s) 14, 2, 17, 18, 19, 20, 21, 22, 23, 16, 15

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 2, 17, 18, 19, 20, 21, 22, 23, 16, 15.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss D02	Truss Type Common	Qty 1	Ply 1	Summit/61 Hawthorn Ridge I41172659
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:25 2020 Page 1

ID:tnOHGeVPJT41JASwyTKzhfUX-P73hArj_z1UUKNxOk5M0mL7nAelGrkgb7D_2dwzKpgG

0-10-8 7-1-12 14-0-0 20-0-0
0-10-8 7-1-12 6-10-4 6-0-0

5x8 =

Scale = 1:45.2

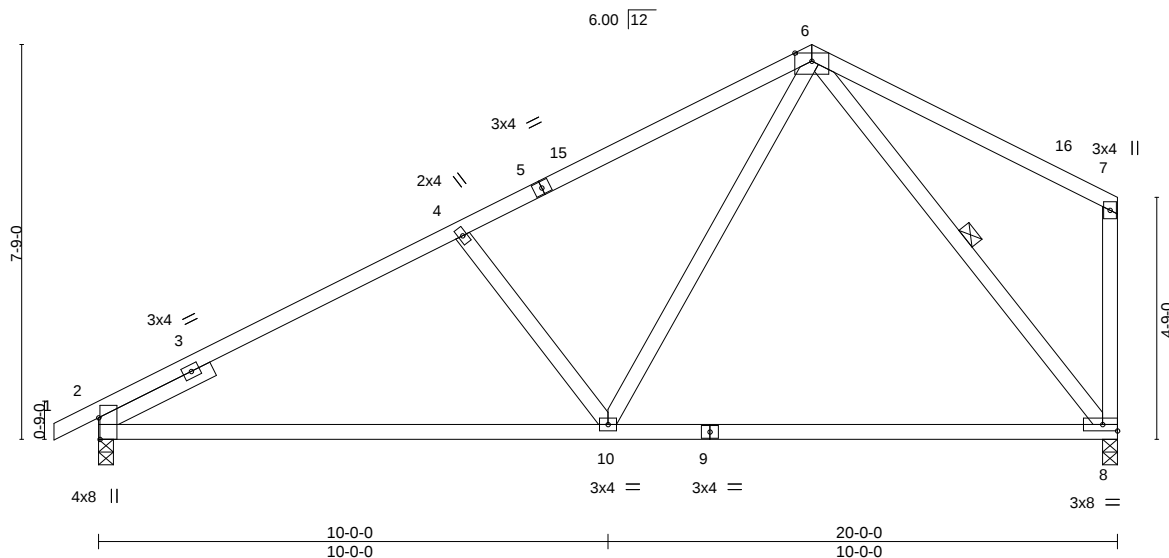


Plate Offsets (X,Y)-- [2:0-5-1,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.20	8-10	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.40	8-10	>597	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.03	8	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL 10.0									Weight: 82 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
Max Horz 2=165(LC 11)
Max Uplift 2=-36(LC 12), 8=-18(LC 12)
Max Grav 2=956(LC 2), 8=892(LC 2)

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

TOP CHORD 2-4=-1125/74, 4-6=-1026/88
BOT CHORD 2-10=-73/1082, 8-10=-29/508
WEBS 4-10=-466/134, 6-10=-25/667, 6-8=-753/32

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 4, 2020

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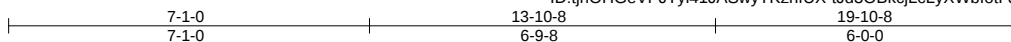
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172660
2335469	D03	Common	2	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:26 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-tJd3OBkcjLcLyXWblotFJYgyq25waBylMtb9NzKpgF



5x8 =

Scale = 1:45.2

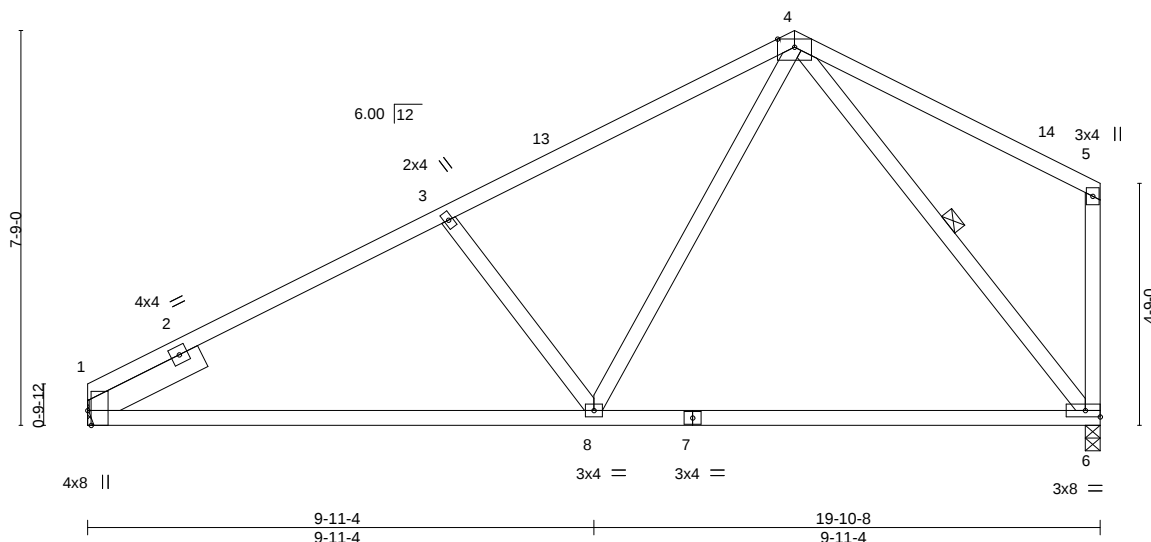


Plate Offsets (X,Y)-- [1:0-3-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.20	6-8	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.40	6-8	>599	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.02	6	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL 10.0									Weight: 83 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 SLIDER Left 2x6 SPF No.2 2-6-0

BRACING-

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

REACTIONS.

(size) 1=Mechanical, 6=0-3-8
 Max Horz 1=159(LC 11)
 Max Uplift 1=-28(LC 12), 6=-18(LC 12)
 Max Grav 1=888(LC 2), 6=888(LC 2)

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

TOP CHORD 1-3=-1104/73, 3-4=-1009/87
 BOT CHORD 1-8=-71/1061, 6-8=-29/505
 WEBS 3-8=-456/132, 4-8=-25/654, 4-6=-748/31

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.
- 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.



May 4, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge
2335469	D04	ROOF SPECIAL GIRDER	1	2	I41172661

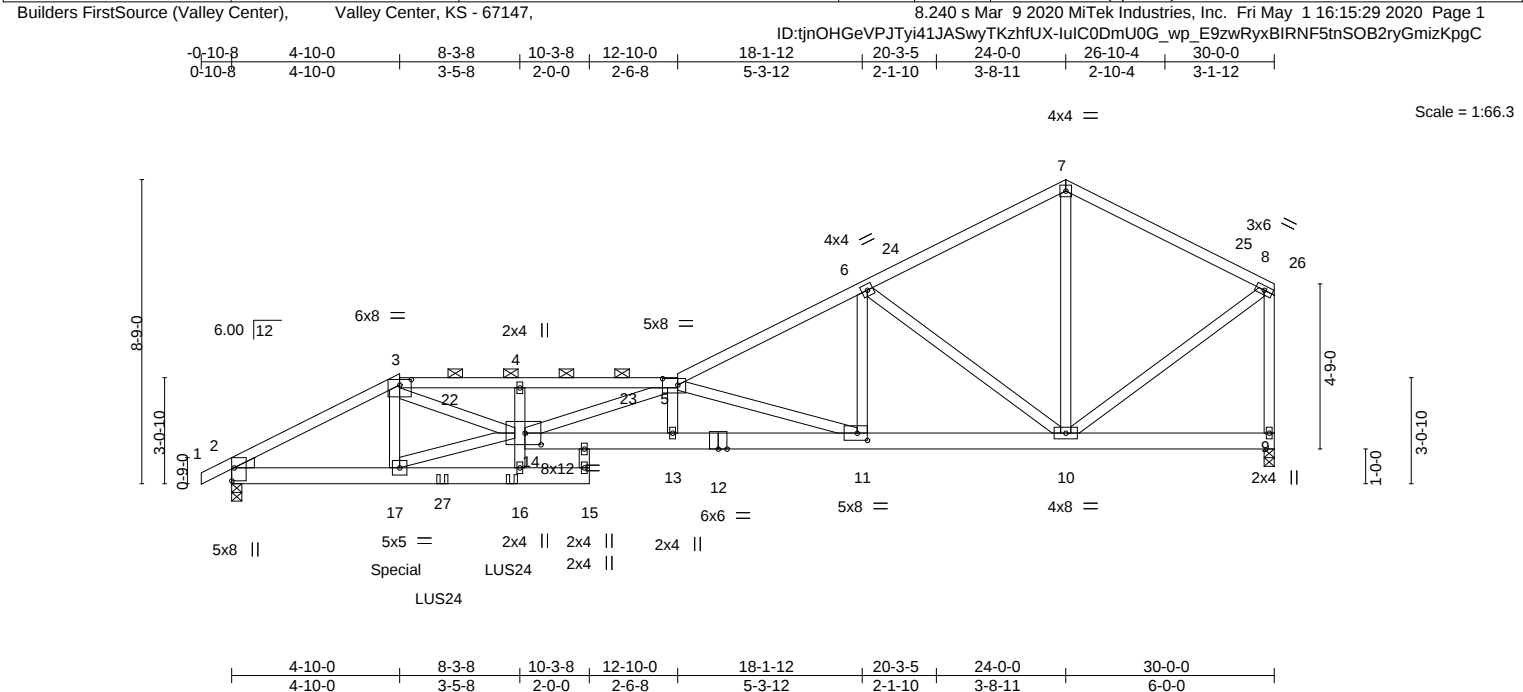


Plate Offsets (X,Y)--		[2:Edge,0-0-13], [2:0-0-7,0-5-8], [2:0-0-3,0-0-7], [3:0-4-0,0-1-15], [5:0-5-4,0-2-4], [11:0-3-8,0-2-8], [14:0-5-8,0-4-0]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	25.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	NO
BCLL	0.0	Code IRC2018/TPI2014	
BCDL	10.0		
		CSI.	
		TC	0.59
		BC	0.85
		WB	0.65
		Matrix-MS	
		DEFL.	
		Vert(LL)	-0.29 15 >999 240
		Vert(CT)	-0.52 15 >686 180
		Horz(CT)	0.11 9 n/a n/a
		PLATES	MT20
		GRIP	197/144
		Weight:	312 lb
		FT =	20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-9 max.): 3-5.
BOT CHORD	2x6 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		
WEDGE			
Left:	2x4 SPF No.2		

REACTIONS.	(size) 2=0-3-8, 9=0-3-8
	Max Horz 2=178(LC 59)
	Max Uplift 2=-157(LC 12), 9=-61(LC 12)
	Max Grav 2=2127(LC 2), 9=1532(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3637/290, 3-4=-7113/536, 4-5=-7252/544, 5-6=-3117/190, 6-7=-1254/105, 7-8=-1243/116, 8-9=-1475/83
BOT CHORD	2-17=-309/3190, 16-17=-27/365, 13-14=-499/7416, 11-13=-504/7421, 10-11=-162/2729
WEBS	3-17=-468/142, 14-17=-294/2948, 3-14=-288/4318, 5-14=-876/378, 5-11=-4931/360, 6-11=-69/1717, 6-10=-2165/196, 7-10=-38/688, 8-10=-45/1260, 14-16=-26/583, 4-14=-504/67

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=157.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Contr to standard ANSI/TPI 1.



May 4,2020

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge
2335469	D04	ROOF SPECIAL GIRDER	1	2	I41172661
					Job Reference (optional)

- NOTES-**
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-0-12 from the left end to 8-0-12 to connect truss(es) to front face of bottom chord.
 - 14) Fill all nail holes where hanger is in contact with lumber.
 - 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 420 lb down and 65 lb up at 4-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-51, 3-5=-61, 5-7=-51, 7-8=-51, 15-19=-20, 9-14=-20

Concentrated Loads (lb)

Vert: 17=-420(F) 16=-280(F) 27=-280(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172662
2335469	D05	Roof Special	1	1	Job Reference (optional)	

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

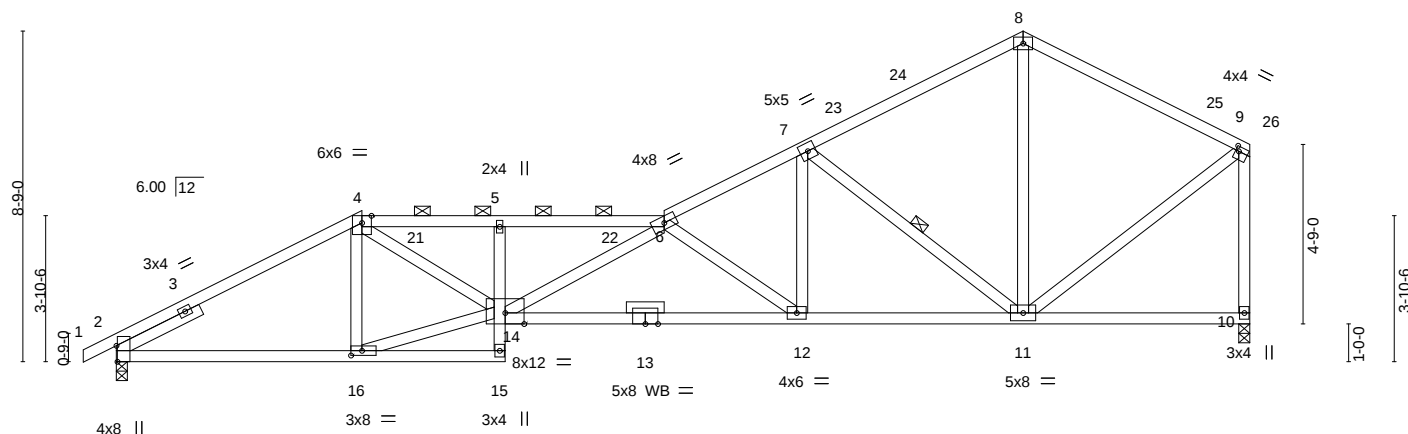
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:31 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-EHQyRvokYtEd2IOY5LTQ0cNo03oVFLUW9RMrazKpgA

0-10-8	6-6-0	10-3-8	14-6-0	18-3-10	24-0-0	30-0-0
0-10-8	6-6-0	3-9-8	4-2-8	3-9-10	5-8-7	6-0-0

4x6 =

Scale = 1:61.0



6-6-0	10-3-8	14-6-0	18-3-10	24-0-0	30-0-0
6-6-0	3-9-8	4-2-8	3-9-10	5-8-7	6-0-0

Plate Offsets (X,Y)-- [2:0-5-1,Edge], [9:0-1-0,0-1-8], [16:0-3-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	-0.24 12-14	>999	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.52 12-14	>687	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.13 10	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS						
BCDL 10.0								Weight: 138 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
13-14,10-13: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and
2-0-0 oc purlins (2-9-5 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-11

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=179(LC 9)
Max Uplift 2=66(LC 12), 10=39(LC 12)
Max Grav 2=1406(LC 2), 10=1343(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2179/115, 4-5=-3474/188, 5-6=-3553/190, 6-7=-2482/122, 7-8=-1073/86,
8-9=-1068/99, 9-10=-1285/63
BOT CHORD 2-16=-139/1886, 5-14=-490/62, 12-14=-214/3784, 11-12=-93/2166
WEBS 4-16=-416/66, 14-16=-114/1804, 4-14=-74/1933, 6-14=-404/12, 7-11=-1626/131,
8-11=-18/513, 9-11=-27/1071, 7-12=-24/1311, 6-12=-1992/148

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172663
2335469	D06	Roof Special	1	1		

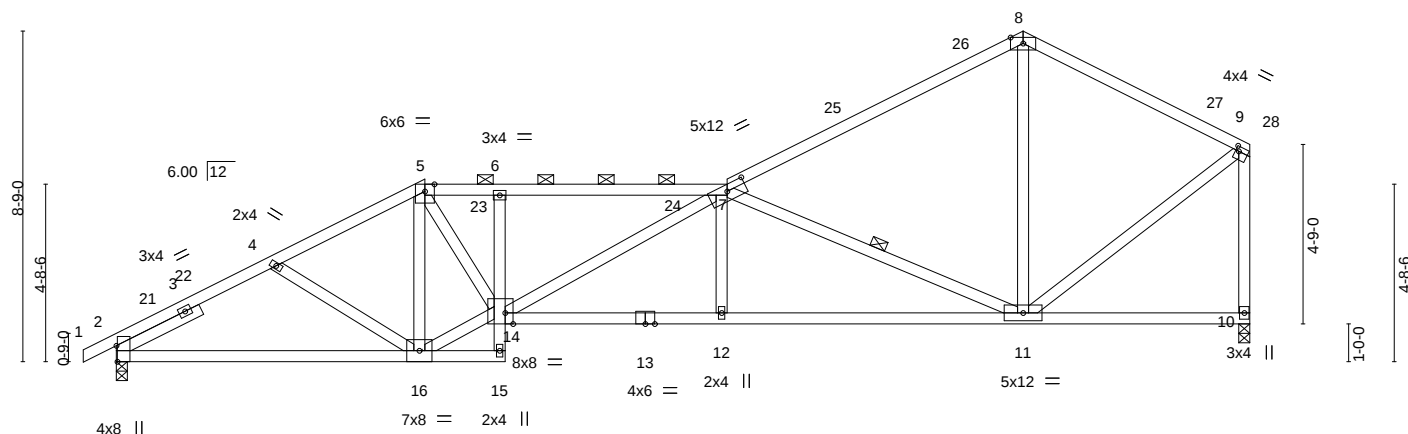
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:33 2020 Page 1
ID:tnOHGeVPJTiy41JASwyTKzhfUX-AgYisap?4VULibYxCmVu51S1LSTojEunzTwTvTzKpg8

0-10-8	4-2-12	8-2-0	10-3-8	16-2-0	24-0-0	30-0-0
0-10-8	4-2-12	3-11-4	2-1-8	5-10-8	7-10-0	6-0-0

4x8 =

Scale = 1:61.0



8-2-0	10-3-8	16-2-0	24-0-0	30-0-0
8-2-0	2-1-8	5-10-8	7-10-0	6-0-0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.98	Vert(LL) -0.20	12-14	>999	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.79	Vert(CT) -0.37	11-12	>974	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.81	Horz(CT) 0.12	10	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS						
BCDL 10.0	Code IRC2018/TPI2014							

Weight: 138 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-0-6 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-11

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=179(LC 9)
Max Uplift 2=-66(LC 12), 10=-39(LC 12)
Max Grav 2=1406(LC 2), 10=1343(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2164/129, 4-5=-2051/116, 5-6=-2630/166, 6-7=-2685/170, 7-8=-1127/77, 8-9=-1080/98, 9-10=-1295/60
BOT CHORD 2-16=-168/1868, 6-14=-493/77, 12-14=-147/2962, 11-12=-150/2956
WEBS 5-16=-694/69, 14-16=-96/1894, 5-14=-87/1593, 7-14=-430/0, 7-12=0/297, 7-11=-2252/174, 8-11=0/460, 9-11=-29/1100

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172664
2335469	D07	Roof Special	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:35 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-72gTHGrFc6k3XviJKBYMASYQygAIBD93RmPa_LzKpg6

-0-10-8	5-0-12	9-10-0	10-3-8	17-10-0	24-0-0	29-11-8
0-10-8	5-0-12	4-9-4	0-5-8	7-6-8	6-2-0	5-11-8

4x6 =

Scale = 1:62.3

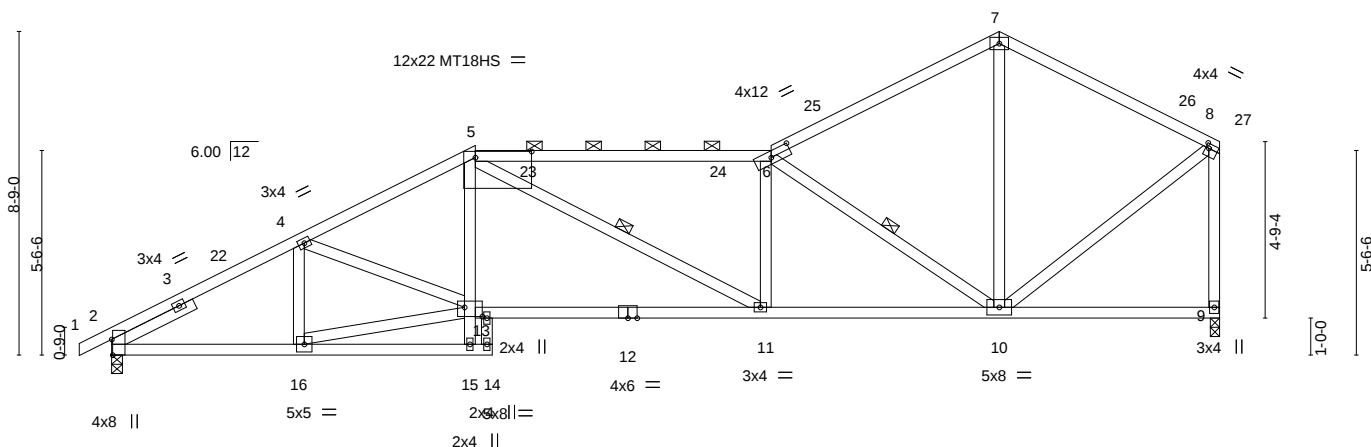


Plate Offsets (X,Y)--	[2:0-5-1,Edge], [5:1-6-4,0-2-0], [6:0-6-8,0-2-0], [8:0-1-0,0-1-8], [13:0-5-12,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.18 11-13	>999	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.72	Vert(CT)	-0.42 11-13	>861	180	MT18HS	197/144
TCDL 10.0	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.09 9	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS						
BCDL 10.0								Weight: 143 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
5-6: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-2 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11, 6-10

REACTIONS.

(size) 2=0-3-8, 9=0-3-0
Max Horz 2=180(LC 9)
Max Uplift 2=63(LC 12), 9=38(LC 12)
Max Grav 2=1410(LC 2), 9=1344(LC 2)

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

TOP CHORD 2-4=-2183/108, 4-5=-2386/151, 5-6=-2325/126, 6-7=-1086/84, 7-8=-1063/98, 8-9=-1286/62
BOT CHORD 2-16=-146/1885, 11-13=-127/2128, 10-11=-99/2324
WEBS 4-16=-339/72, 4-13=-20/362, 5-11=-9/313, 6-10=-1765/134, 7-10=-14/518, 8-10=-26/1071, 5-13=0/477, 13-16=-148/1863

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift 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.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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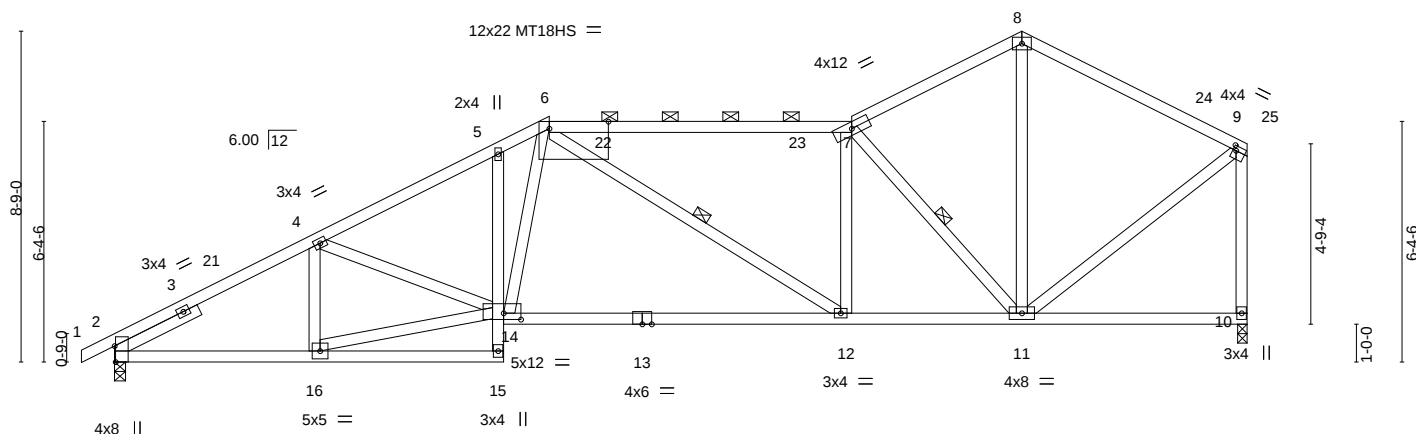
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

 $4 \times 6 =$

Scale = 1:60.9



5-3-8	10-3-8	11-6-0	19-6-0	24-0-0	29-11-8
5-3-8	5-0-0	1-2-8	8-0-0	4-6-0	5-11-8

	000	000	110
Plate Offsets (X,Y)--	[2:0-5-1,Edge], [6:1-6-12.0-2-4], [9:0-1-0.0-1-8], [14:0-5-8.0-2-0]		

[illegible]

LUMBER-		BRACING-	
TOP CHORD	2x4 SP 2400F 2.0E *Except* 7-8,8-9: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-11-0 max.): 6-7.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 6-12, 7-11
SLIDER	Left 2x4 SPF No.2 2-6-0		

REACTIONS. (size) 2=0-3-8, 10=0-3-0
 Max Horz 2=180(LC 9)
 Max Uplift 2=-65(LC 12), 10=-39(LC 12)
 Max Grav 2=1404(LC 2), 10=1341(LC 2)

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

TOP CHORD 2-4=-2176/115, 4-5=-2306/145, 5-6=-2173/156, 6-7=-1830/114, 7-8=-1051/92,
8-9=-1054/99, 9-10=-1278/65

BOT CHORD 2-16=-150/1880, 12-14=-107/1899, 11-12=-65/1825

WEBS 4-16=-342/68, 14-16=-123/1876, 7-12=0/322, 7-11=-1457/116, 8-11=-36/590,
9-11=-26/1052, 6-14=-3/746

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss 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.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172666
2335469	D09	Roof Special	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:39 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-?pvz6eumgLEV0X?4Z1cLLi8gHWm71pfMONo76zKpg2

0-10-8	5-1-12	10-0-0	11-4-12	19-4-12	24-0-0	29-11-8
0-10-8	5-1-12	4-10-4	1-4-12	8-0-0	4-7-4	5-11-8

4x6 =

Scale = 1:60.9

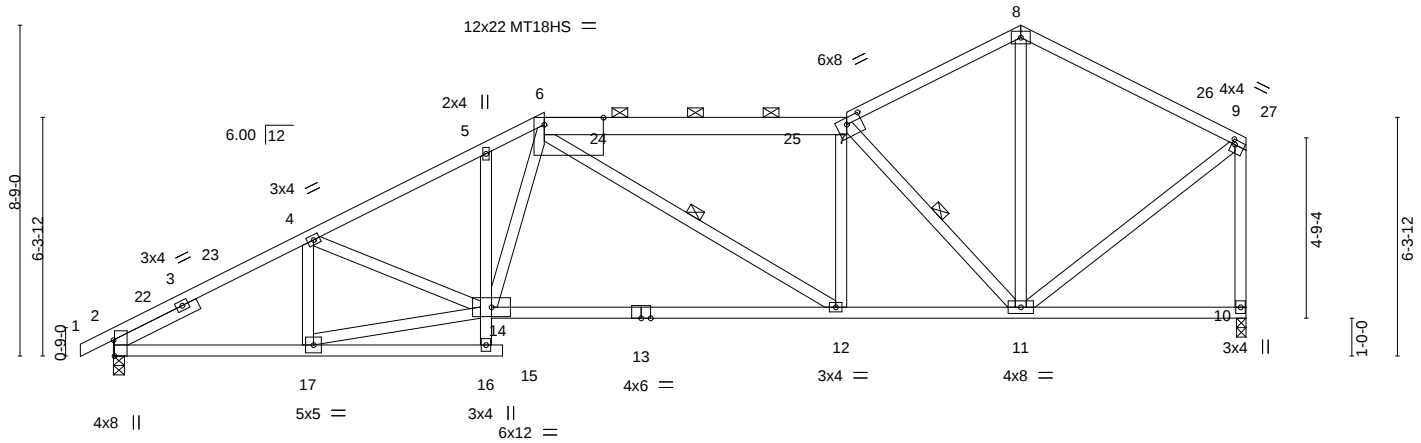


Plate Offsets (X,Y)-- [2:0-5-1,Edge], [6:1-6-12,0-2-4], [7:0-4-12,0-2-0], [9:0-1-0,0-1-8]															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL (roof) 25.0		Plate Grip DOL		1.15		TC 0.61		Vert(LL)		-0.22 12-14 >999 240		MT20		197/144	
Snow (Pf/Pg) 20.4/20.0		Lumber DOL		1.15		BC 0.82		Vert(CT)		-0.49 12-14 >725 180		MT18HS		197/144	
TCDL 10.0		Rep Stress Incr		YES		WB 0.46		Horz(CT)		0.08 10 n/a n/a					
BCLL 0.0		Code IRC2018/TPI2014				Matrix-AS						Weight: 151 lb		FT = 20%	
BCDL 10.0															

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
6-7: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-5-15 max.): 6-7.
BOT CHORD Rigid ceiling directly applied. Except:
10-0-0 oc bracing: 14-16
WEBS 1 Row at midpt 6-12, 7-11

REACTIONS. (size) 2=0-3-8, 10=0-3-0
Max Horz 2=180(LC 9)
Max Uplift 2=63(LC 12), 10=38(LC 12)
Max Grav 2=1410(LC 2), 10=1344(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2182/110, 4-5=-2360/140, 5-6=-2261/157, 6-7=-1855/111, 7-8=-1050/90,
8-9=-1057/98, 9-10=-1281/64
BOT CHORD 2-17=-147/1888, 12-14=-102/1902, 11-12=-63/1849
WEBS 7-12=0/324, 7-11=-1461/112, 8-11=-32/575, 9-11=-25/1057, 4-17=-373/66,
14-17=-119/1865, 4-14=0/261, 6-14=-13/790

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172667
2335469	D10	Roof Special	1	1		

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

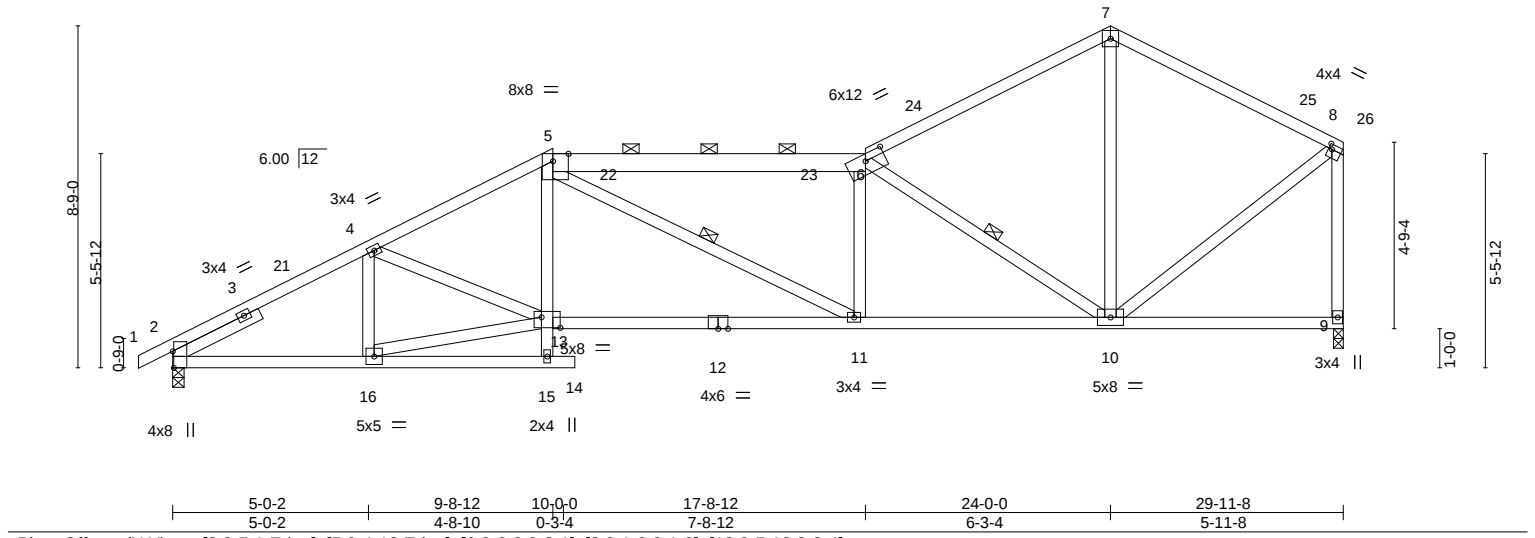
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:41 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-xC1kXJv0ByVDFq9TgSfmQjoTC5DebwTypisuB?zKpg0

-0-10-8	5-0-2	9-8-12	17-8-12	24-0-0	29-11-8
0-10-8	5-0-2	4-8-10	8-0-0	6-3-4	5-11-8

5x5 =

Scale = 1:59.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.67	Vert(LL) -0.19	11-13	>999	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.73	Vert(CT) -0.42	11-13	>849	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.51	Horz(CT) 0.10	9	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS						
BCDL 10.0	Code IRC2018/TPI2014							

Weight: 144 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
5-6: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-12 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11, 6-10

REACTIONS.

(size) 2=0-3-8, 9=0-3-0
Max Horz 2=180(LC 9)
Max Uplift 2=61(LC 12), 9=37(LC 12)
Max Grav 2=1413(LC 2), 9=1345(LC 2)

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

TOP CHORD 2-4=-2191/106, 4-5=-2432/148, 5-6=-2355/124, 6-7=-1087/83, 7-8=-1066/97, 8-9=-1289/62
BOT CHORD 2-16=-144/1893, 11-13=-125/2150, 10-11=-99/2353
WEBS 5-11=-11/328, 4-16=-374/73, 5-13=0/497, 13-16=-144/1888, 4-13=-9/371, 7-10=-12/509, 8-10=-26/1076, 6-10=-1780/133

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift 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.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172668
2335469	D11	Roof Special	1	1		

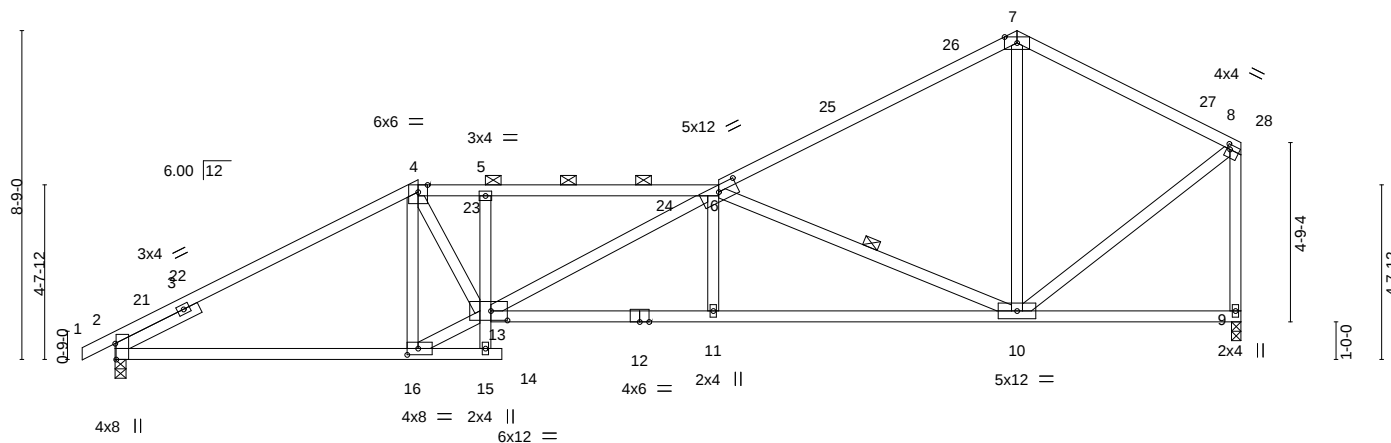
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:43 2020 Page 1
ID: tjnOHGeVPJTyi41JASwyTKzhfUX-ub9Uy?xGjZlwV8JsothEV8toAutu3ktFGOL?GuzKpg_

0-10-8	4-2-2	8-0-12	10-0-0	16-0-12	24-0-0	29-11-8
0-10-8	4-2-2	3-10-10	1-11-4	6-0-12	7-11-4	5-11-8

4x8 =

Scale = 1:61.3



	8-0-12	10-0-0	16-0-12	24-0-0	29-11-8
	8-0-12	1-11-4	6-0-12	7-11-4	5-11-8

Plate Offsets (X,Y)-- [2:0-5-1,Edge], [6:0-6-0,0-2-1], [8:0-1-0,0-1-8], [13:0-5-4,0-3-0], [16:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.20 11-13	>999	240	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.37 10-11	>960	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.13 9	n/a	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL	10.0									Weight: 133 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 6-7: 2x4 SPF 1650F 1.5E	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-11-4 max.): 4-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied. Except:
WEBS	2x4 SPF No.2		6-0-0 oc bracing: 13-15
SLIDER	Left 2x4 SPF No.2 2-6-0	WEBS	1 Row at midpt 6-10

REACTIONS. (size) 2=0-3-8, 9=0-3-0
Max Horz 2=180(LC 9)
Max Uplift 2=63(LC 12), 9=38(LC 12)
Max Grav 2=1410(LC 2), 9=1344(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2050/113, 4-5=-2642/155, 5-6=-2705/163, 6-7=-1125/75, 7-8=-1075/96, 8-9=-1297/59
BOT CHORD 2-16=-124/1842, 5-13=-542/86, 11-13=-145/3017, 10-11=-148/3010
WEBS 4-16=-801/91, 13-16=-113/1961, 4-13=-48/1657, 6-13=-456/0, 6-11=0/302, 6-10=-2304/172, 7-10=0/460, 8-10=-27/1103

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift 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.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

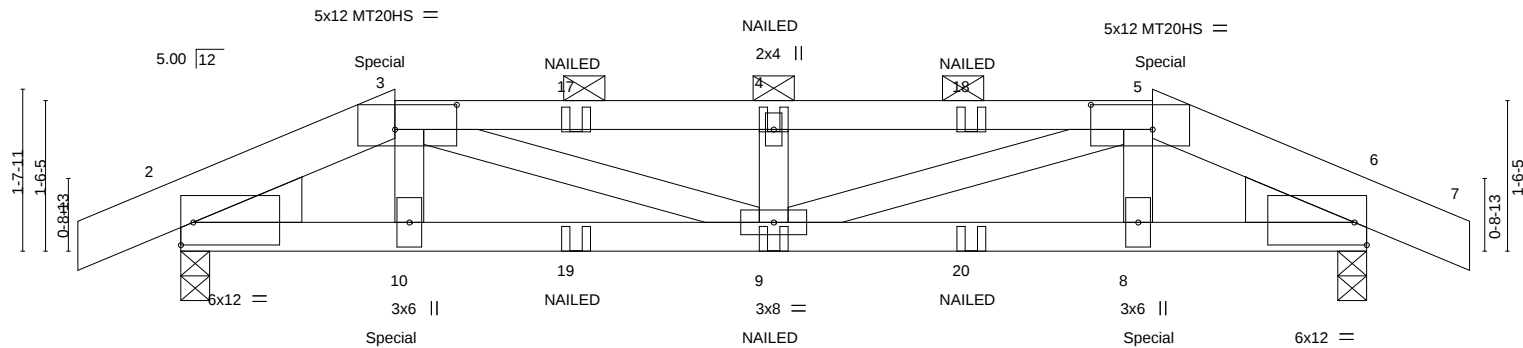
Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	141172669
2335469	D12	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:45 2020 Page 1

ID: tjnOHGeVPJTyi41JASwyTKzhfUX-qzGFNhyXFB?ekSTEvHjiaZy5HidLXmDYkKq6JmzKpfy

-1-0-8 2-2-0 6-0-0 9-10-0 12-0-0 13-0-8
1-0-8 2-2-0 3-10-0 3-10-0 2-2-0 1-0-8

Scale = 1:23.3



	2-2-0 2-2-0	6-0-0 3-10-0	9-10-0 3-10-0	12-0-0 2-2-0	
Plate Offsets (X,Y)--	[2:Edge,0-2-12], [2:0-7-2,0-0-10], [2:0-0-12,0-0-5], [3:0-7-8,0-3-0], [5:0-7-8,0-3-0], [6:0-0-12,0-0-5], [6:0-7-2,0-0-10], [6:Edge,0-2-12]				
LOADING (psf)		SPACING-		CSL	
TCLL (roof) 25.0		Plate Grip DOL 1.15		TC 0.92	
Snow (Pf/Pg) 20.4/20.0		Lumber DOL 1.15		BC 0.55	
TCDL 10.0		Rep Stress Incr NO		WB 0.33	
BCLL 0.0		Code IRC2018/TPI2014		Matrix-MS	
BCDL 10.0					
				DEFL.	
				in (loc) l/defl L/d	
				Vert(LL) 0.23 9 >633 240	
				Vert(CT) -0.25 9 >573 180	
				Horz(CT) 0.05 6 n/a n/a	
				PLATES	GRIP
				MT20 197/144	
				MT20HS 148/108	
				Weight: 55 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD 2x6 SPF 2100F 1.8E *Except*		TOP CHORD	Structural wood sheathing directly applied or 4-0-12 oc purlins, except
3-5: 2x4 SPF No.2			2-0-0 oc purlins (2-3-13 max.): 3-5.
BOT CHORD 2x4 SP 2400F 2.0E		BOT CHORD	Rigid ceiling directly applied or 3-9-11 oc bracing.
WEBS 2x4 SPF No.2			
WEDGE			
Left: 2x6 SPF No.2, Right: 2x6 SPF No.2			

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-12(LC 13)
Max Uplift 2=-2566(LC 8), 6=-2566(LC 9)
Max Grav 2=2814(LC 61), 6=2814(LC 60)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5291/4871, 3-4=-5331/4501, 4-5=-5331/4501, 5-6=-5291/4871
BOT CHORD 2-10=-4317/4740, 9-10=-4318/4963, 8-9=-4323/4958, 6-8=-4322/4735
WEBS 3-10=-46/1899, 3-9=-169/675, 4-9=-346/69, 5-9=-168/675, 5-8=-46/1899

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=2566, 6=2566.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 382 lb down and 2197 lb up at 2-2-0, and 382 lb down and 2197 lb up at 9-10-0 on top chord, and 2212 lb down and 354 lb up at 2-2-0, and 2212 lb down and 354 lb up at 9-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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

Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



May 4,2020

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172669
2335469	D12	Hip Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-51, 3-5=-61, 5-7=-51, 11-14=-20

Concentrated Loads (lb)

Vert: 10=0(F) 9=0(F) 8=0(F) 19=0(F) 20=0(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

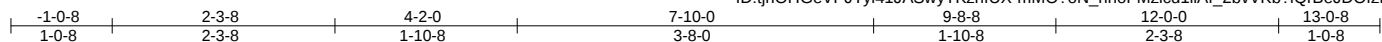
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss D13	Truss Type Hip	Qty 1	Ply 1	Summit/61 Hawthorn Ridge I41172670
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:47 2020 Page 1
ID:tjnOHGeVPJT41JASwyTKzhfUX-mMO?oN_nnoFMZlcd1ilAf_2bvVKb?lQrBeJDOzfKpfw



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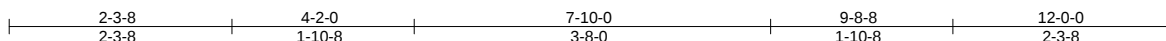
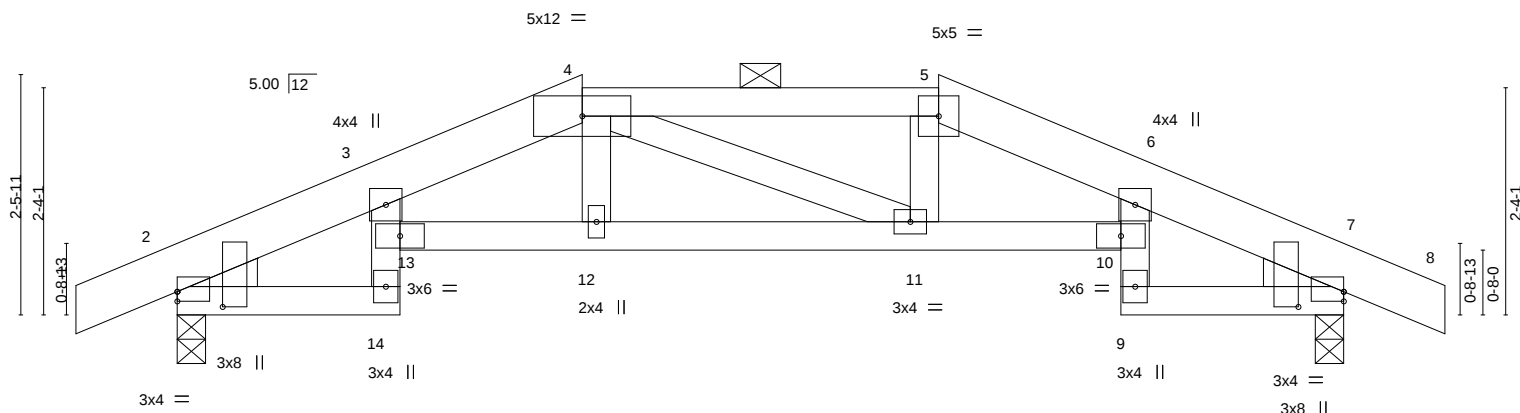


Plate Offsets (X,Y)-- [2:0-0-0,0-1-3], [2:0-1-14,0-5-10], [7:0-0-0,0-1-3], [7:0-1-14,0-5-10]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.04 12	>999	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.07 11-12	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.05 7	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 49 lb	FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except* 4-5: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-5-11 max.): 4-5.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
WEDGE	
Left: 2x4 SPF No.2, Right: 2x4 SPF No.2	

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-20(LC 13)
Max Uplift 2=-23(LC 9), 7=-23(LC 9)
Max Grav 2=613(LC 2), 7=613(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-696/18, 3-4=-1147/24, 4-5=-1098/27, 5-6=-1148/26, 6-7=-696/17
BOT CHORD 2-14=-0/522, 12-13=0/1087, 11-12=0/1097, 10-11=0/1088, 7-9=0/522

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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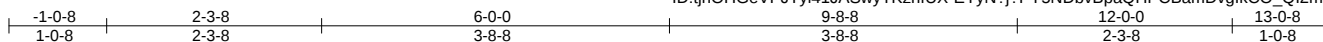
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss D15	Truss Type Roof Special	Qty 2	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172671
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:48 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-EYyN?j?PY5NDbvBpaQHPCBamDvgIkCO_Ql2mw5zKpfv



6x6 =

Scale = 1:24.6

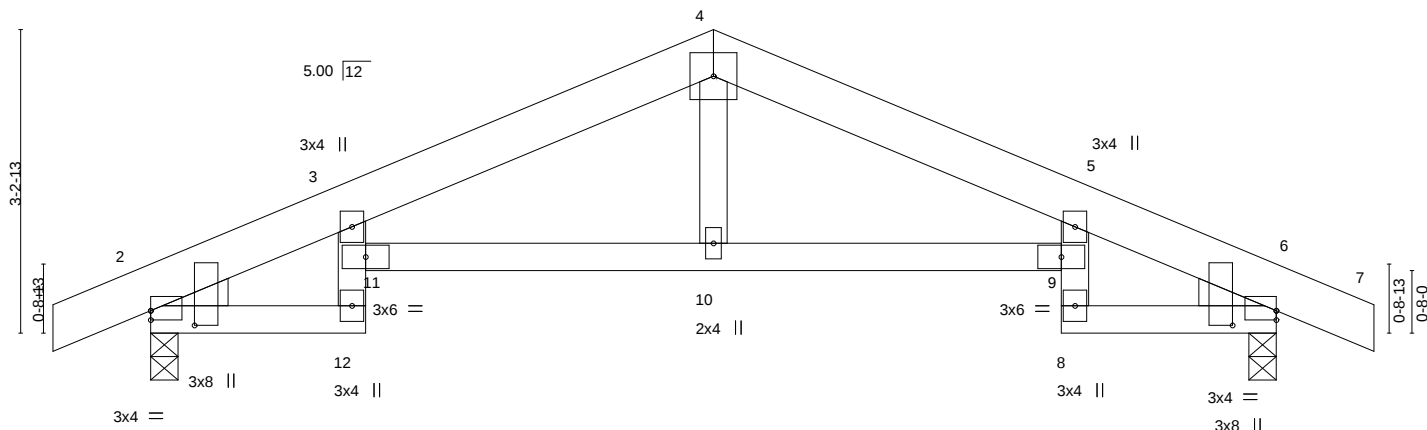


Plate Offsets (X,Y)--	2-0-0-0,0-1-3], [2-0-1-14,0-5-10], [6-0-0-0,0-1-3], [6-0-1-14,0-5-10]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL 1.15		TC 0.30	Vert(LL) -0.05	10-11	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15		BC 0.47	Vert(CT) -0.09	10-11	>999	180		
TCDL 10.0	Rep Stress Incr YES		WB 0.05	Horz(CT) 0.06	6	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS						
BCDL 10.0								Weight: 47 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=28(LC 12)
Max Uplift 2=22(LC 12), 6=22(LC 13)
Max Grav 2=613(LC 2), 6=613(LC 2)

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

TOP CHORD 2-3=-673/20, 3-4=-953/19, 4-5=-953/29, 5-6=-673/25
BOT CHORD 2-12=-18/495, 10-11=0/882, 9-10=0/882, 6-8=0/495

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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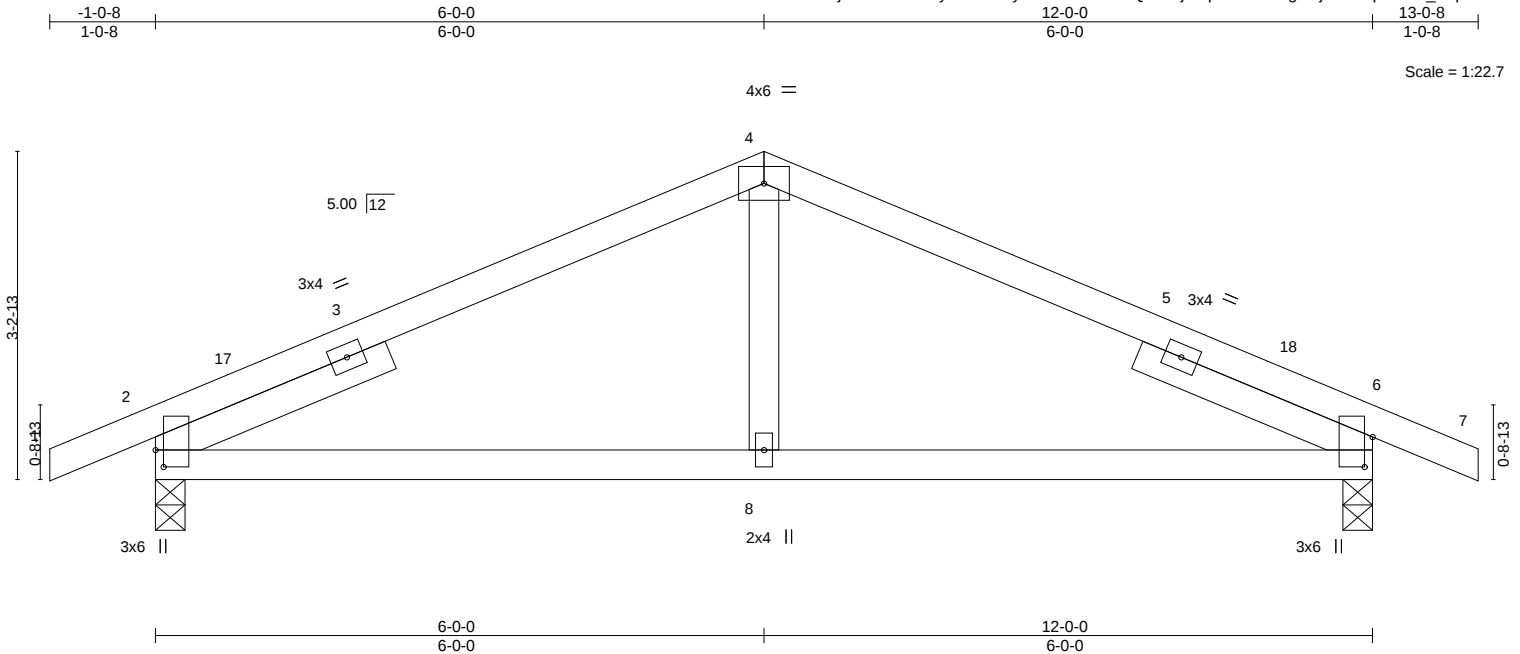


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss D16	Truss Type Common	Qty 1	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172672
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:50 2020 Page 1
ID: tjnOHGeVPJTyi41JASwyTKzhfUX-Bx48QO0f4jdxqDLCirJtHcg5GjOoC6qHtcXt?_zKpft



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	in	(loc)	l/defl	L/d	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.28	-0.04	8-15	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	-0.06	8-15	>999	180		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS		Horz(CT)	0.02	2	n/a		
BCDL	10.0									Weight: 40 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-28(LC 13)
Max Uplift 2=-22(LC 12), 6=-22(LC 13)
Max Grav 2=613(LC 2), 6=613(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-664/33, 4-6=-664/33
BOT CHORD 2-8=0/613, 6-8=0/613

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 4, 2020

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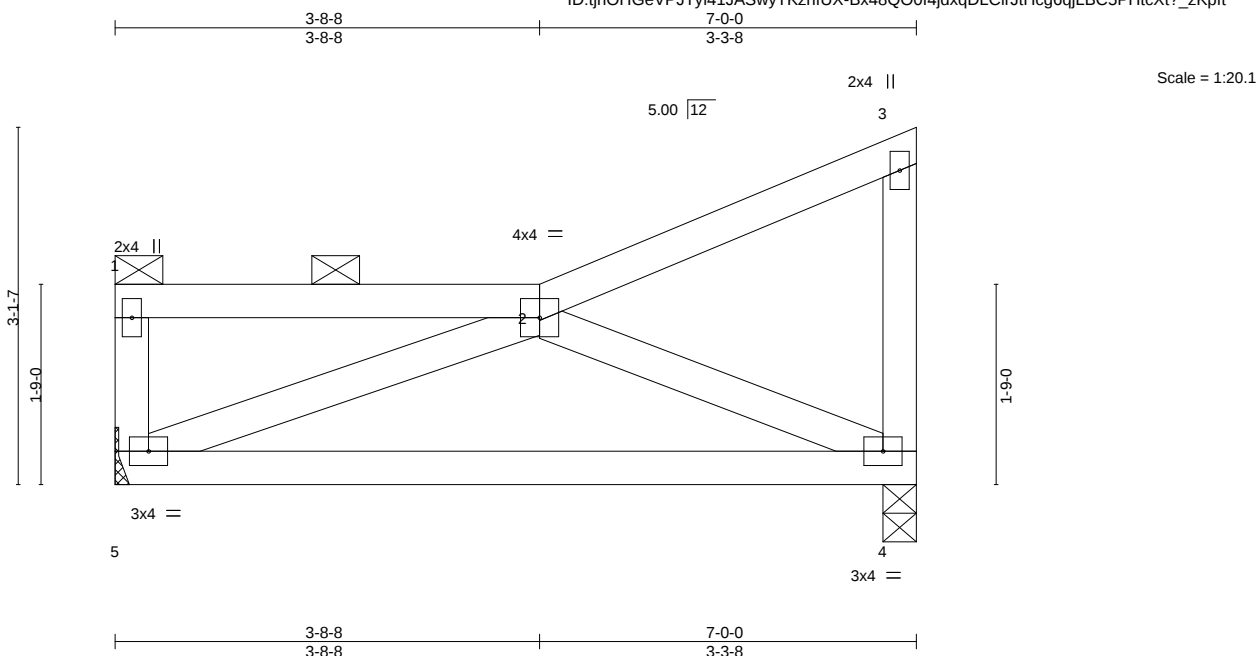
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172673
2335469	E01	Roof Special	1	1		

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:50 2020 Page 1
ID: tjnOHGeVPJTyi41JASwyTKzhfUX-Bx48QO0f4jdxqDLCirJtHcg6qjLBC5PHtcXt?_zkpft



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.51	Vert(LL) -0.12 4-5 >663 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Vert(CT) -0.24 4-5 >331 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 1-2.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 4=0-3-8, 5=Mechanical
Max Horz 5=79(LC 11)
Max Uplift 4=-19(LC 12), 5=-16(LC 12)
Max Grav 4=302(LC 2), 5=309(LC 30)

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

BOT CHORD 4-5=-47/269
WEBS 2-4=-296/63, 2-5=-291/52

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 3) Unbalanced snow loads have been considered for this design.
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 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.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

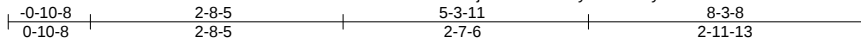
Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172674
2335469	E02	Monopitch	2	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:51 2020 Page 1

ID:tpjOHGeVPJT41JASwyTKzhfUX-f7eWek1Hr0loSNwOGYq6qqCBu7iLxY7Q6GHQXQzKpfs



Scale = 1:24.5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.09 6-7	>999	240	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.21 6-7	>464	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.08 6	n/a	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 29 lb	FT = 20%
BCDL	10.0										

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 6=0-3-8, 8=0-3-8
Max Horz 8=107(LC 9)
Max Uplift 6=-31(LC 12), 8=-18(LC 12)
Max Grav 6=371(LC 17), 8=436(LC 2)

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

TOP CHORD 2-8=-411/51, 3-4=-501/52
BOT CHORD 3-7=0/489, 6-7=-56/489
WEBS 4-6=-545/81

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 4, 2020

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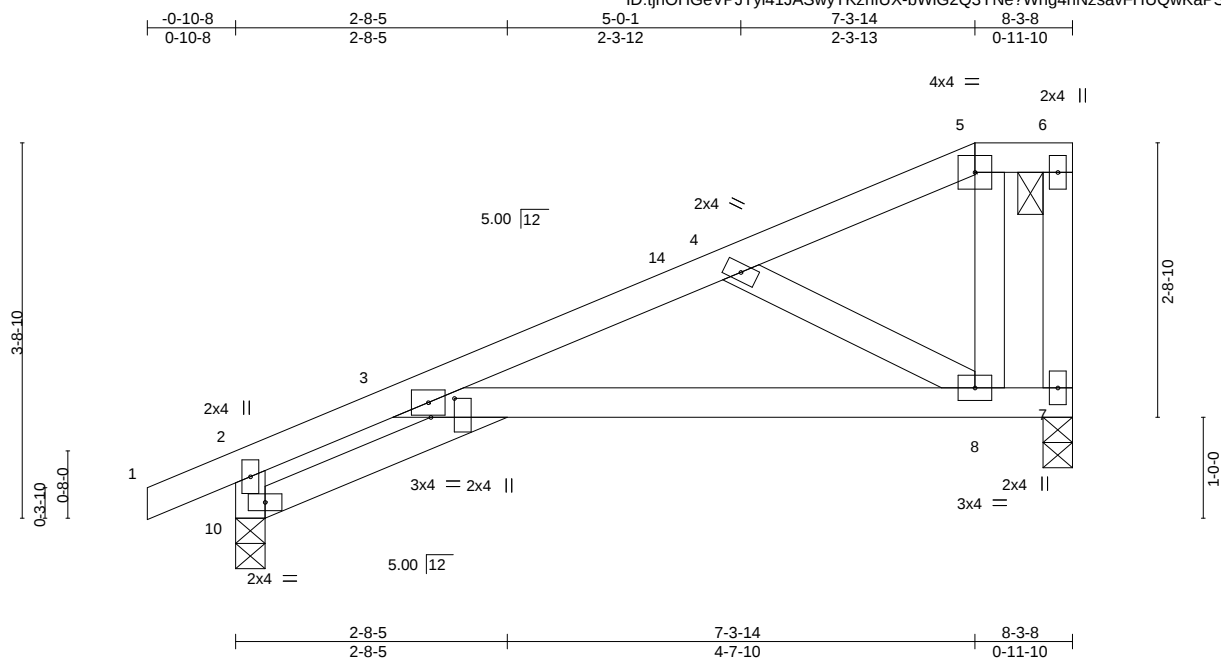
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172675
2335469	E03	Half Hip	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:53 2020 Page 1

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-bWIG2Q3YNe?Whg4nNzsavFHUQwKaPSdjaamXblzKpfpq



Scale = 1:22.8

Plate Offsets (X,Y)-- [9'-0"-2'-4",0'-2"-1'-3"]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.16	8-13	>596	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.30	8-13	>318	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.16	7	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL 10.0									Weight: 31 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2'-0"-0" oc purlins: 5-6.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 7=0-3-8, 10=0-3-8
Max Horz 10=99(LC 9)
Max Uplift 7=-24(LC 12), 10=-30(LC 12)
Max Grav 7=366(LC 32), 10=480(LC 32)

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

TOP CHORD 2-10=-480/30, 3-4=-565/54
BOT CHORD 3-8=-61/567
WEBS 4-8=-637/82

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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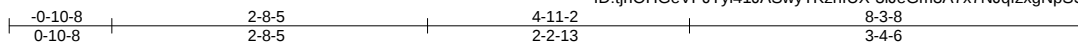
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172676
2335469	E04	Half Hip	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:54 2020 Page 1

ID:tjnOHGeVPJTiy41JASwyTKzhfUX-3iJeGm3A7x7NJqfzXgNpSSqdNKeM8t5soEV48IzKpfp



Scale = 1:19.6

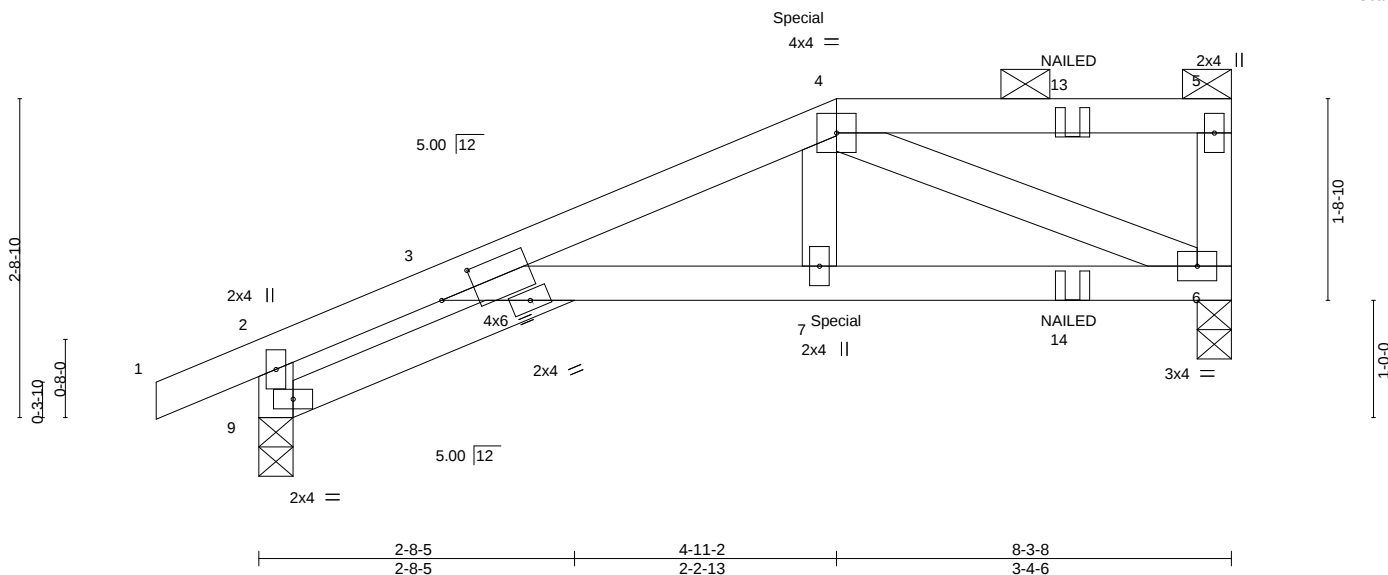


Plate Offsets (X,Y)-- [3:0-3-9,0-1-14]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.96	Vert(LL)	-0.11	7-12	>863	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.18	7-12	>531	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.15	6	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL 10.0									Weight: 29 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 6=0-3-8, 9=0-3-8
Max Horz 9=69(LC 9)
Max Uplift 6=-59(LC 9), 9=-50(LC 12)
Max Grav 6=533(LC 31), 9=564(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-564/50, 3-4=-986/97
BOT CHORD 3-7=-102/902, 6-7=-103/866
WEBS 4-7=0/350, 4-6=-947/104

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 188 lb down and 96 lb up at 4-11-2 on top chord, and 93 lb down and 26 lb up at 4-11-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



May 4, 2020

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172676
2335469	E04	Half Hip	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-51, 2-4=-51, 4-5=-61, 6-10=-20

Concentrated Loads (lb)

Vert: 7=-93(F) 4=-148(F) 13=-68(F) 14=-24(F)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J01	Truss Type DIAGONAL HIP GIRDER	Qty 1	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172677
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:55 2020 Page 1
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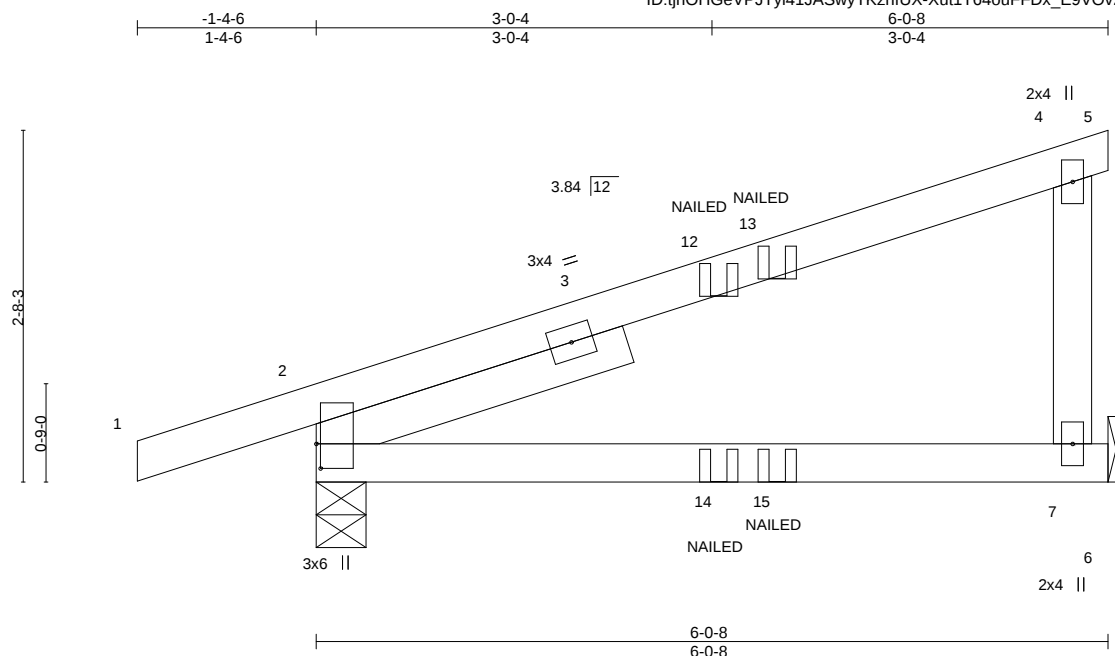


Plate Offsets (X,Y)-- [2:0-2-4,0-0-6]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.06	7-10	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.12	7-10	>565	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.03	2	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-MP							
BCDL 10.0									Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0

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

REACTIONS. (size) 2=0-4-9, 7=Mechanical
Max Horz 2=65(LC 8)
Max Uplift 2=-41(LC 8), 7=-26(LC 12)
Max Grav 2=370(LC 2), 7=294(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-300/45

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCDL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
 - 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-51, 6-8=-20
Concentrated Loads (lb)
Vert: 14=-9(B) 15=0(F)



May 4, 2020

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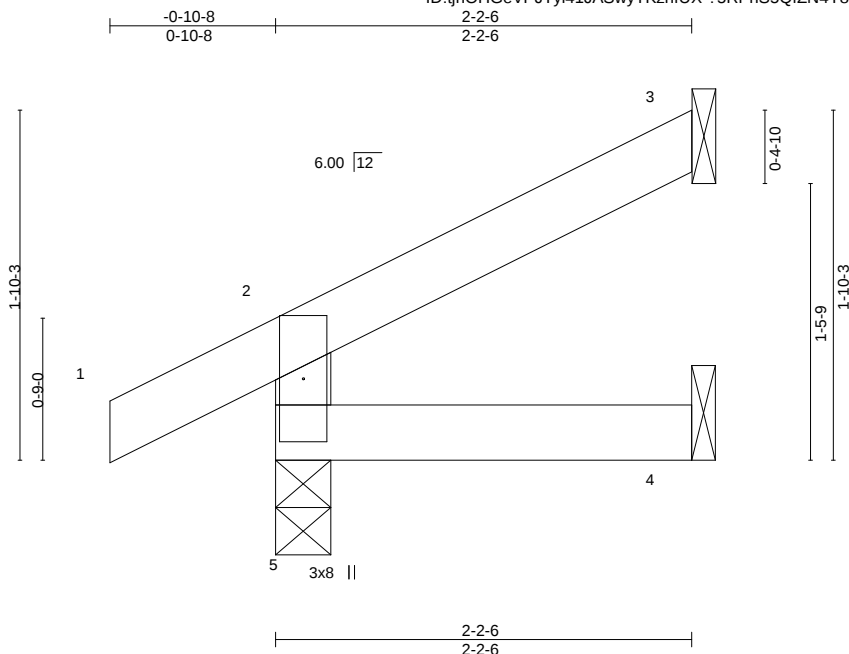
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172678
2335469	J02	JACK-OPEN	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:56 2020 Page 1

ID:tnOHGeVPJT41JASwyTKzhfUX-75RPhS5QfZN4Y8oM25QHxtvAi8V3cqA9GY_BCdzKpfn



Scale = 1:12.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.07	Vert(LL)	-0.00	5	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	-0.00	4-5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=33(LC 9)
Max Uplift 5=-2(LC 12), 3=-19(LC 12)
Max Grav 5=187(LC 17), 3=56(LC 17), 4=36(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

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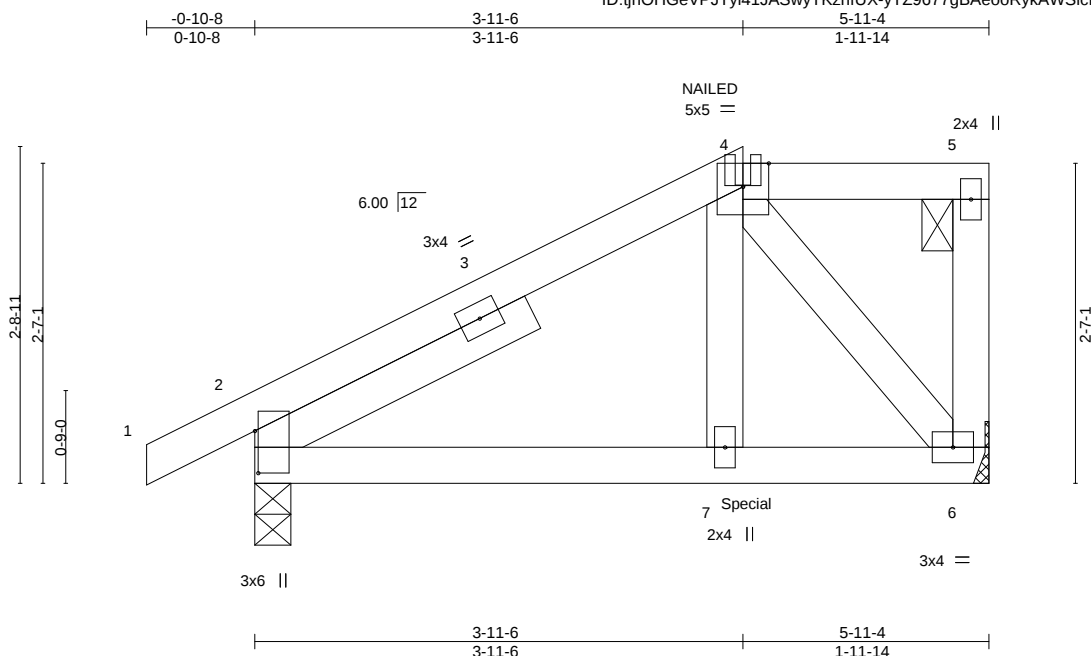


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172679
2335469	J03	JACK-OPEN GIRDER	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:58 2020 Page 1
ID:tnOHGeVPJTyi41JASwyTKzhfUX-yTZ9677gBAeooRykAWSicI?VZx9N4j_SjrTIHWzKpfl



Scale = 1:18.6

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.01	7-10	>999	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.01	7-10	>999	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.11	Horz(CT)	0.00	2	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-MP							
BCDL 10.0									Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=Mechanical
Max Horz 2=57(LC 12)
Max Uplift 2=-23(LC 12), 6=-42(LC 9)
Max Grav 2=520(LC 32), 6=508(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-428/28
BOT CHORD 2-7=-37/388, 6-7=-37/362
WEBS 4-7=-6/410, 4-6=-587/60

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 331 lb down and 47 lb up at 3-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



May 4, 2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge
2335469	J03	JACK-OPEN GIRDER	1	1	I41172679
Job Reference (optional)					

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-51, 4-5=-61, 6-8=-20

Concentrated Loads (lb)

Vert: 4=-93(B) 7=-331(B)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172680
2335469	J04	HALF HIP	1	1	Job Reference (optional)	

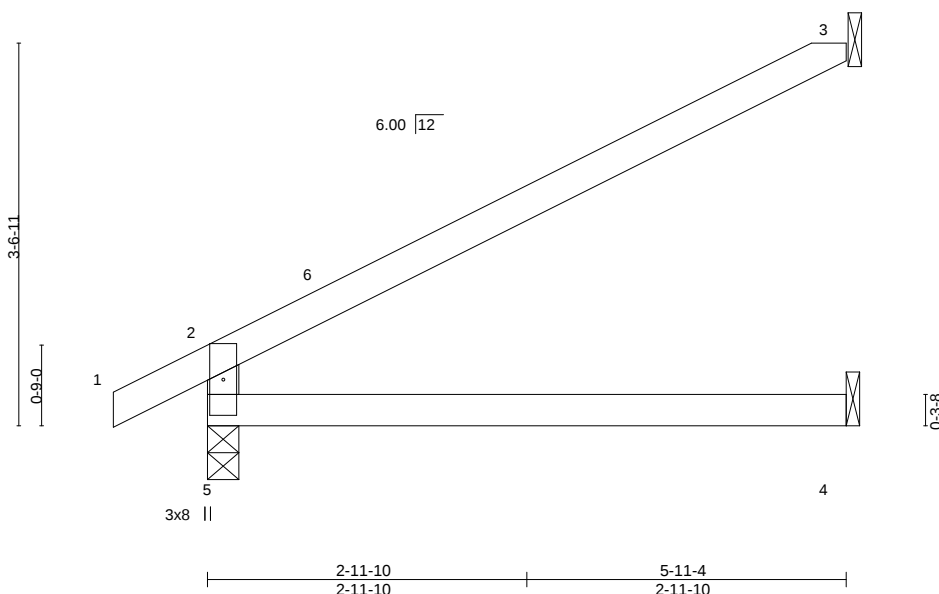
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:58 2020 Page 1

ID: tjnOHGeVPJT41JASwyTKzhfUX-yTZ9677gBAeooRykAWSic1?PFx7F4kfSjrTIHWzKpfl

-0-10-8 5-7-6 5-11-4
0-10-8 5-7-6 0-3-14

Scale = 1:21.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.05 4-5 >999 240	MT20		197/144	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.11 4-5 >639 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04 3 n/a n/a				
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL	10.0										

LUMBER-

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

BRACING-

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

REACTIONS. (size) 3=Mechanical, 5=0-3-8, 4=Mechanical
Max Horz 5=83(LC 12)
Max Uplift 3=51(LC 12)
Max Grav 3=207(LC 17), 5=336(LC 2), 4=107(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-290/34

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172681
2335469	J05	JACK-OPEN	8	1		
Job Reference (optional)						

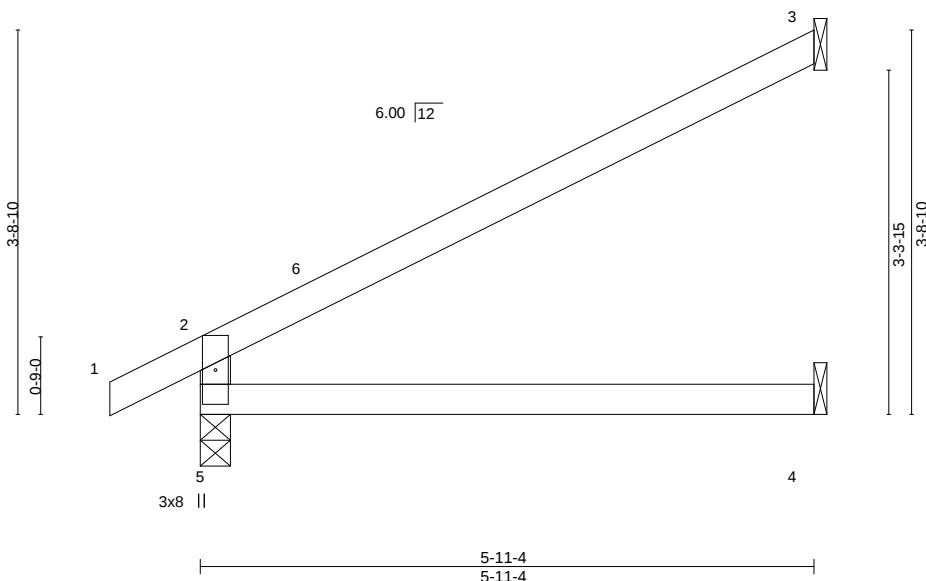
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:15:59 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-Qg6XJT7JyUmfPbXwkEz_9WXa?LTUpAvcyVDrpyzKpfk



Scale = 1:22.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.52	Vert(LL)	-0.05	4-5	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT)	-0.11	4-5	>639		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.04	3	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 16 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=80(LC 12)
Max Uplift 3=51(LC 12)
Max Grav 5=336(LC 2), 3=207(LC 17), 4=107(LC 7)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-290/34

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

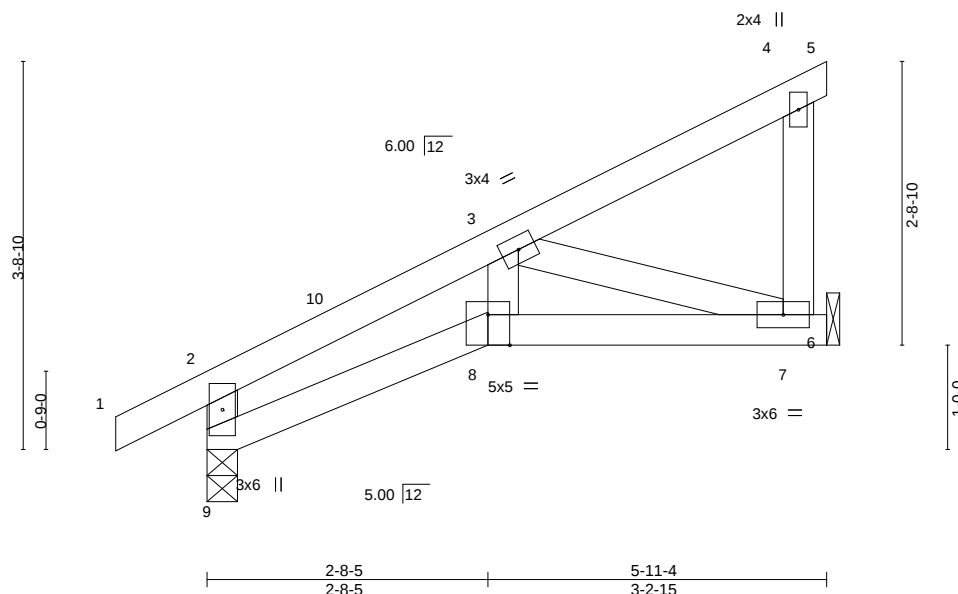
Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172682
2335469	J06	JACK-OPEN	7	1		

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:00 2020 Page 1
ID:tjnOHGeVPJTiy41JASwyTKzhfUX-usgwWp8xjnuW1l67HxUDhj4oDlogYdilB9yPLPzKpfj

-0-10-8 2-8-5 5-11-4
0-10-8 2-8-5 3-2-15



Scale = 1:22.1

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	-0.09	8	>743	240	MT20
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.15	8	>435	180	197/144
TCDL 10.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.06	7	n/a	n/a	
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS						
BCDL 10.0									

Weight: 22 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 9=0-3-8, 7=Mechanical
Max Horz 9=83(LC 12)
Max Uplift 7=40(LC 12)
Max Grav 9=326(LC 2), 7=295(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
- 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.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J07	Truss Type HALF HIP	Qty 1	Ply 1	Summit/61 Hawthorn Ridge I41172683
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:01 2020 Page 1
ID: tjnOHGeVPJTiy41JASwyTKzhfUX-M2Elk99ZU50NfvhJre?SExdzx97cH4xuPpiytrzkpfi

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0-10-8 2-8-5 2-11-1 0-3-14

Scale = 1:22.2

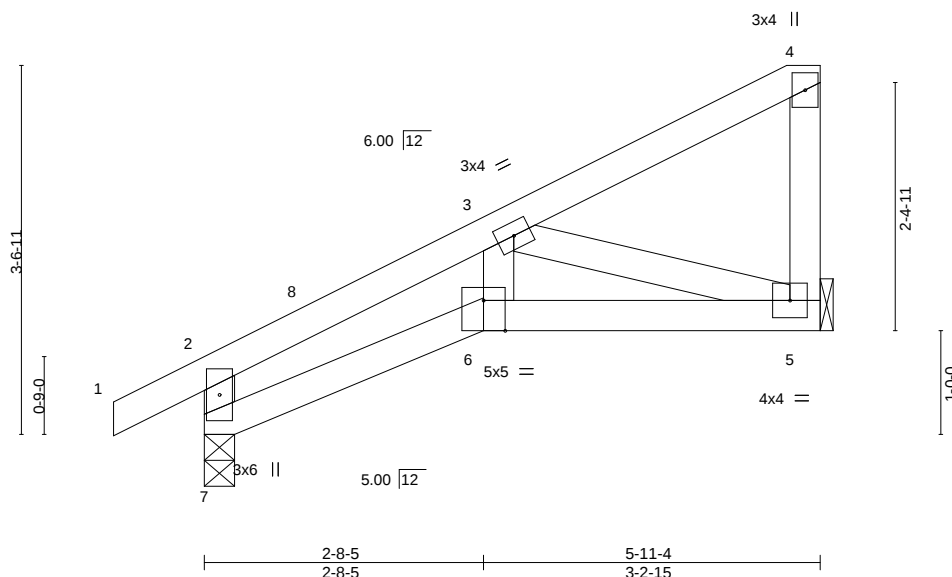


Plate Offsets (X,Y)-- [6:0-2-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.36	Vert(LL)	-0.09	6	>742	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.16	6	>437	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.06	5	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL 10.0									Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

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

REACTIONS. (size) 5=Mechanical, 7=0-3-8
Max Horz 7=82(LC 12)
Max Uplift 5=39(LC 12)
Max Grav 5=274(LC 17), 7=332(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
- 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.



May 4, 2020

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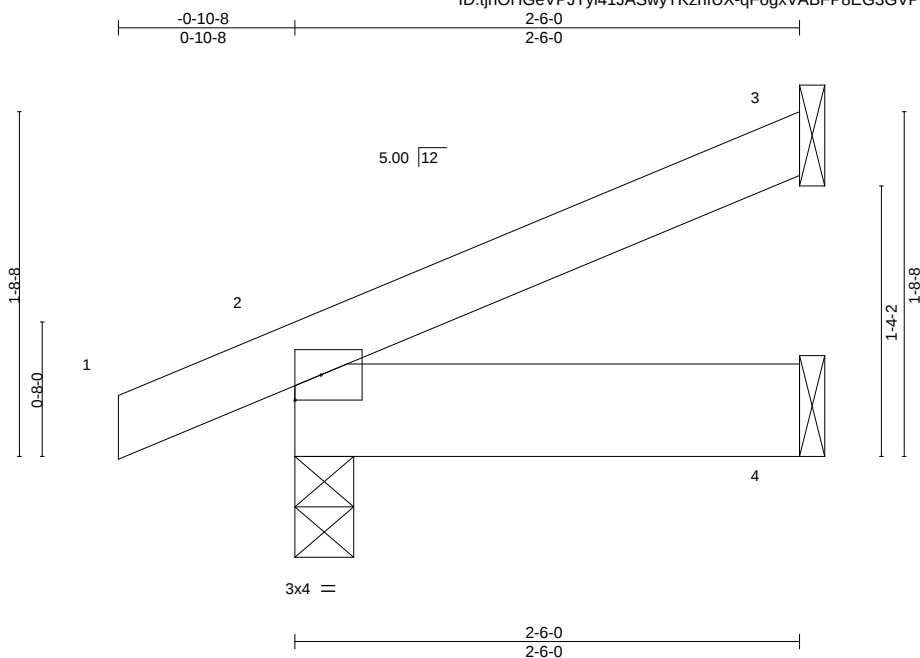
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J08	Truss Type Jack-Open	Qty 2	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172684
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:02 2020 Page 1

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-qFogxVABFP8EG3GVPMXhm89DSYYU0Xf2eTRVQHkPfh



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.06	Vert(LL)	-0.00 7	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	-0.00 7	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00 2	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 9 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-0 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=33(LC 12)
Max Uplift 3=-16(LC 12), 2=-11(LC 8)
Max Grav 3=65(LC 17), 2=187(LC 17), 4=50(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172685
2335469	J09	Half Hip Girder	1	1		

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:03 2020 Page 1

ID: tjnOHGeVPJTyi41JASwyTKzhfUX-IRM29rAp0iG5uDriz32wJMiJDypHI_HBT7B3yJzKpfg

Job Reference (optional)



Scale = 1:18.0

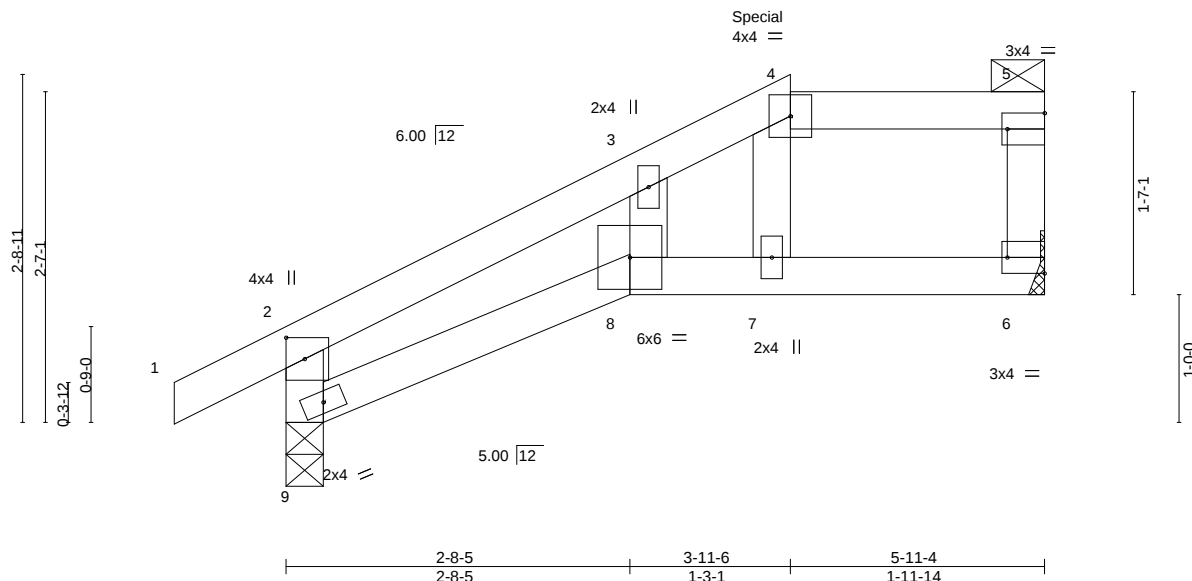


Plate Offsets (X, Y)-- [2:0-2-0,0-1-12], [5:Edge,0-1-8], [6:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	0.09	8	>776	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.09	8	>719	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.04	Horz(CT)	0.04	6	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 19 lb	FT = 20%
BCDL 10.0										

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 9=0-3-8
Max Horz 9=63(LC 9)
Max Uplift 6=-256(LC 9), 9=-129(LC 12)
Max Grav 6=305(LC 2), 9=421(LC 32)

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

TOP CHORD 2-3=-367/236, 2-9=-437/183

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=256, 9=129.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 140 lb down and 382 lb up at 3-11-6 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



May 4, 2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172685
2335469	J09	Half Hip Girder	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:03 2020 Page 2
ID:tjnOHGeVPJTyi41JASwyTKzhfUX-IRM29rAp0iG5uDriz32wJMiJDypHI_HBt7B3yJzKpfg

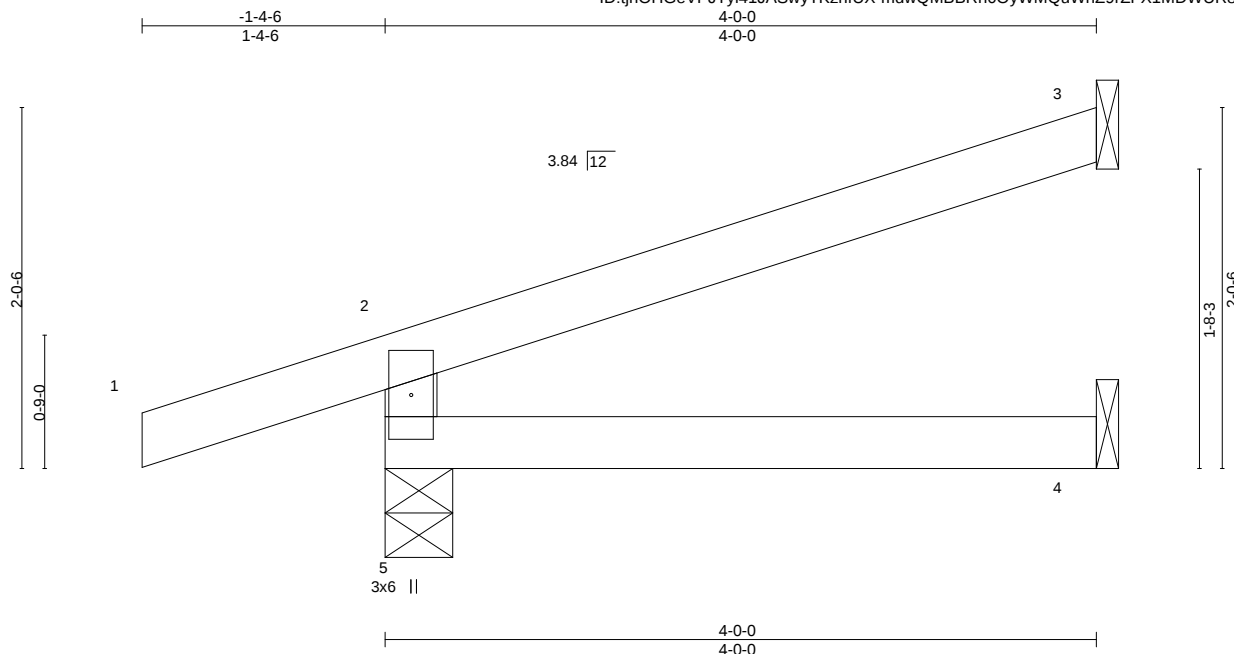
LOAD CASE(S) Standard
Uniform Loads (plf)
Vert: 1-2=-51, 2-4=-51, 4-5=-61, 8-9=-20, 6-8=-20
Concentrated Loads (lb)
Vert: 4=-120(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

[illegible]

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=0-4-9, 3=Mechanical, 4=Mechanical
Max Horz 5=44(LC 8)
Max Uplift 5=-46(LC 8), 3=-27(LC 12)
Max Grav 5=312(LC 17), 3=117(LC 17), 4=69(LC 7)

FORCES.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-275/66

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 4, 2020



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

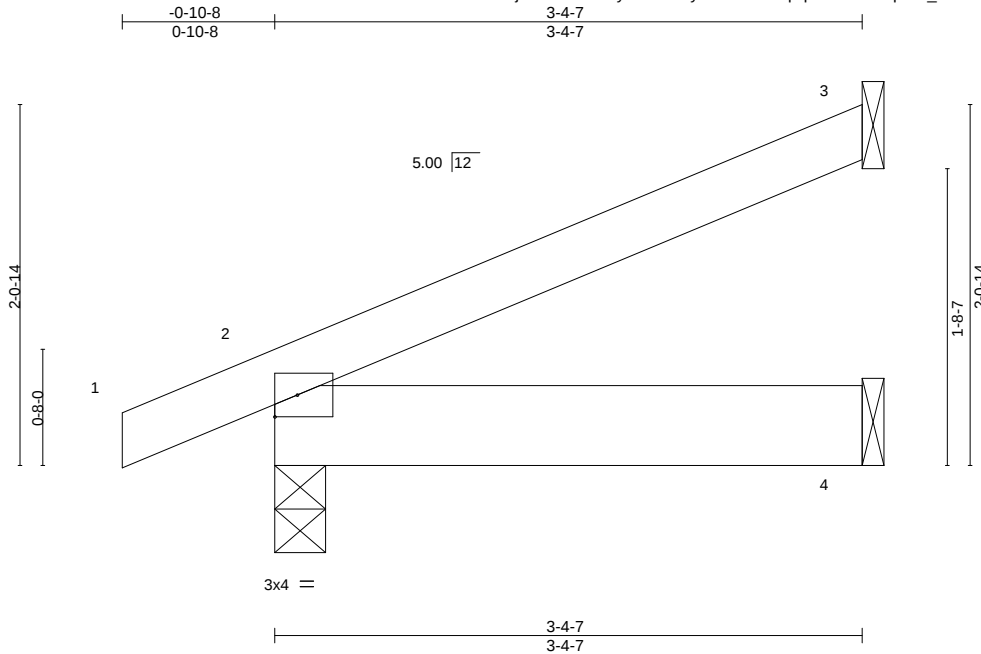
Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172687
2335469	J11	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:05 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-EqUpaXC3YKWp8W_44U4OOnnigmZbDuOUKRgA0czKpfe



Scale = 1:13.2

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.12	in (loc)	l/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.07	Vert(LL)	-0.00 4-7 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.00 4-7 >999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-MP		Horz(CT)	0.00 3 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014							Weight: 11 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-7 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=43(LC 12)
Max Uplift 3=-22(LC 12), 2=-8(LC 8)
Max Grav 3=95(LC 17), 2=231(LC 17), 4=68(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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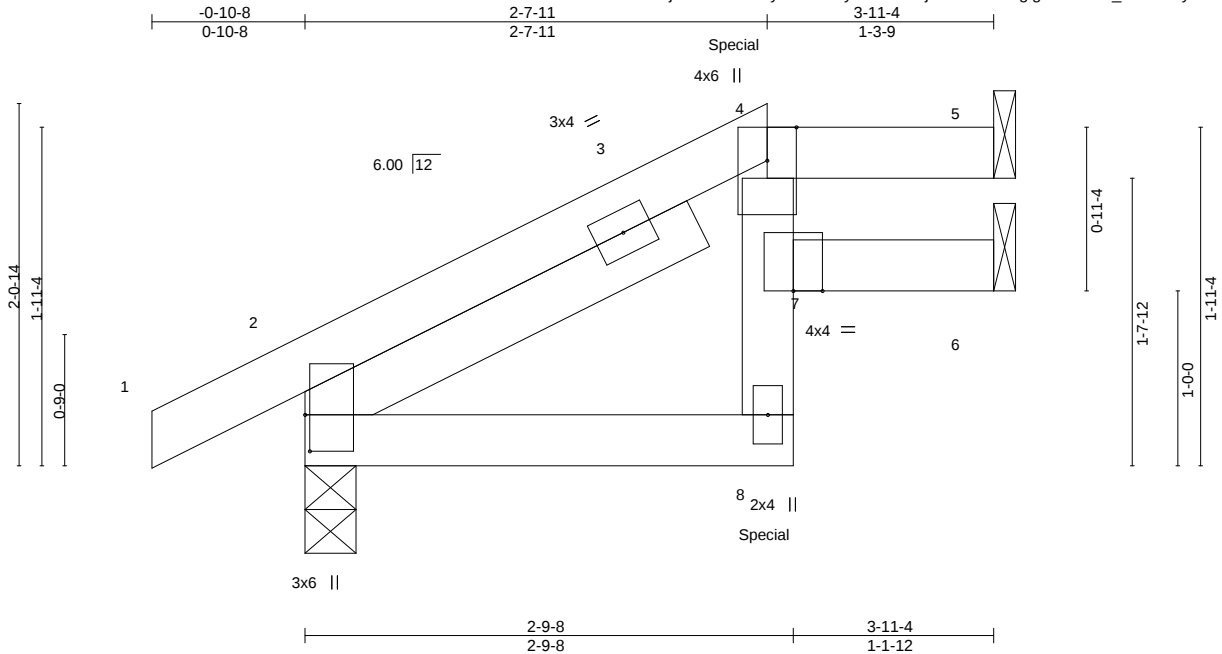


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172688
2335469	J12	Jack-Open Girder	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:06 2020 Page 1
ID:tinOHGeVPJTyi41JASwyTKzhfUX-j02BnsDiJdeglgZHeCbdx_Ks4AsRyLeeZ5PjZ2zKpfd



Scale = 1:13.2

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.01	8	>999	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.01	8	>999	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.01	5	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-MR							
BCDL 10.0									Weight: 15 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=40(LC 53)
Max Uplift 5=-13(LC 9), 2=-12(LC 12), 6=-10(LC 12)
Max Grav 5=126(LC 31), 2=323(LC 32), 6=127(LC 32)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 119 lb down and 72 lb up at 2-7-11 on top chord, and 61 lb down at 2-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-51, 4-5=-61, 8-9=-20, 6-7=-20
Concentrated Loads (lb)
Vert: 8=-47(B) 4=-85(B)



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

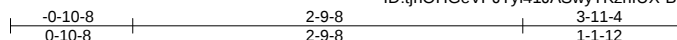
Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172689
2335469	J13	Jack-Open	3	1		

Builders FirstSource (Valley Center),

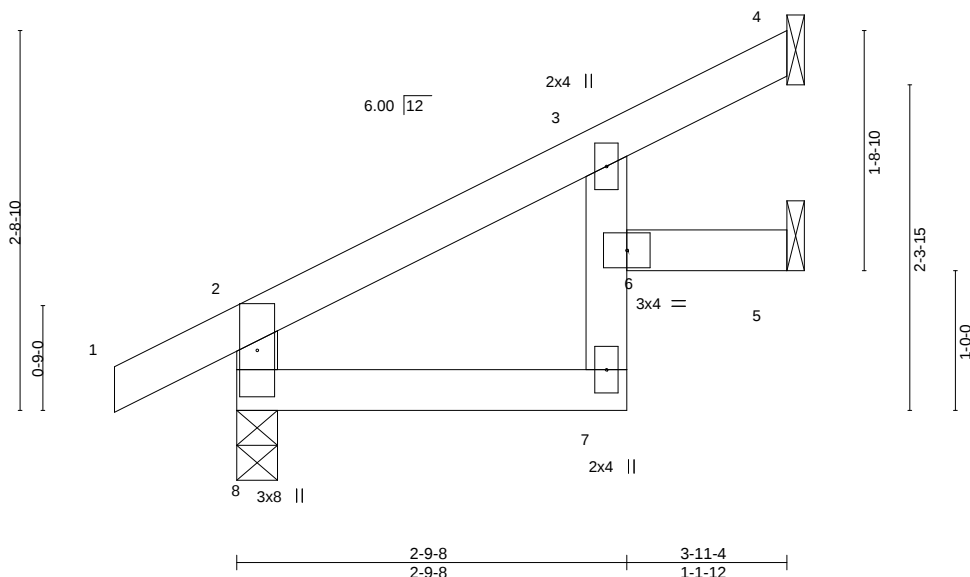
Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:07 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-BCbZ?CDK4xmXNq8TCv6sTCt3BZEghouno19G5VzKpfc



Scale = 1:16.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.12	in (loc)	l/defl	L/d			
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.14	Vert(LL)	-0.01 6 >999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.01 7 >999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-MR		Horz(CT)	0.01 5 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014							Weight: 13 lb	FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=55(LC 12)
Max Uplift 4=-17(LC 12), 5=-10(LC 12)
Max Grav 8=276(LC 17), 4=96(LC 17), 5=77(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-251/17

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J14	Truss Type Jack-Open	Qty 1	Ply 1	Summit/61 Hawthorn Ridge I41172690
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Builders FirstSource (Valley Center),

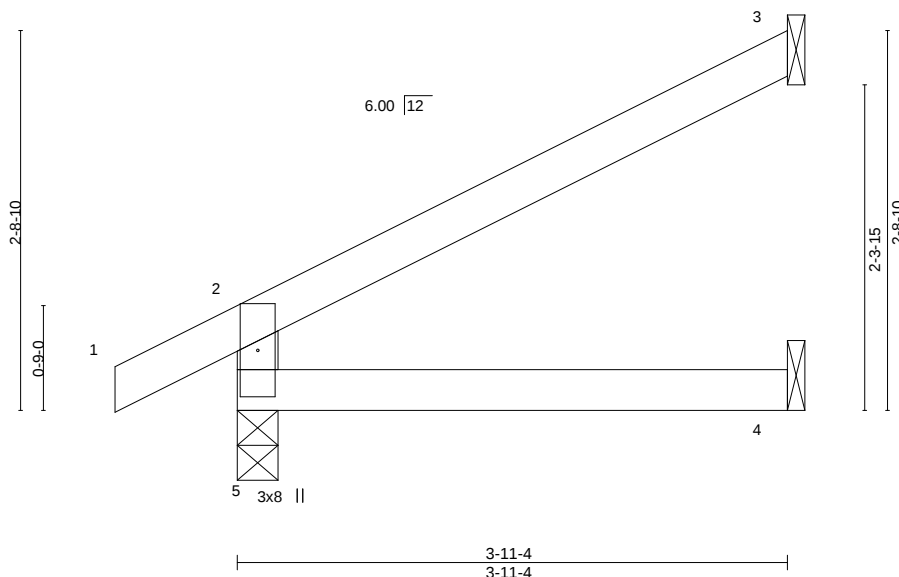
Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:08 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-f09xCYEyqFuN?_jfile50PPBNzbPQF8w0PuqdxzKpfb

0-10-8 3-11-4
0-10-8 3-11-4

Scale = 1:16.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.22	Vert(LL)	-0.01	4-5	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	-0.02	4-5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.01	3	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=55(LC 12)
Max Uplift 3=34(LC 12)
Max Grav 5=276(LC 17), 3=128(LC 17), 4=70(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

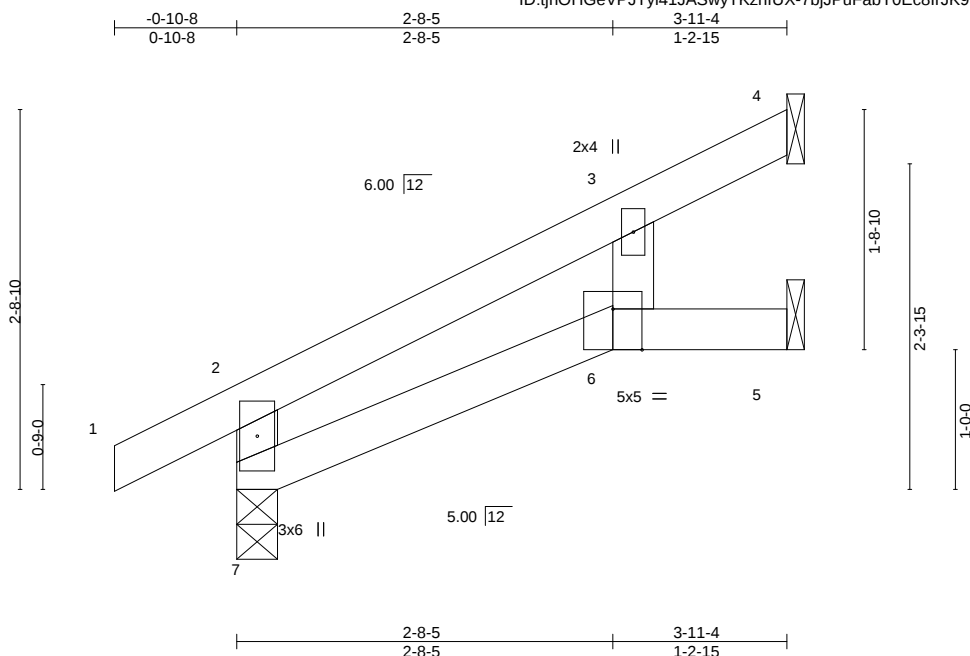
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J15	Truss Type Jack-Open	Qty 4	Ply 1	Summit/61 Hawthorn Ridge I41172691
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					
Job Reference (optional)					

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:09 2020 Page 1
ID:tnOHGeVPJTyi41JASwyTKzhfUX-7bjJPuFabY0Ec8lrJK9KYdyJYNrL9iu4F3eNANzKpfa



Scale = 1:16.5

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.07	6-7	>639	240	MT20
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.08	6-7	>595	180	197/144
TCDL 10.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.73	4	n/a	n/a	
BCLL 0.0	Code IRC2018/TPI2014		Matrix-MP						
BCDL 10.0									
								Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 7=0-3-8, 5=Mechanical
Max Horz 7=58(LC 12)
Max Uplift 4=-261(LC 12), 5=-10(LC 28)
Max Grav 4=136(LC 17), 7=276(LC 17), 5=232(LC 12)

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

WEBS 3-6=-346/41

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=261.
- 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.



May 4, 2020

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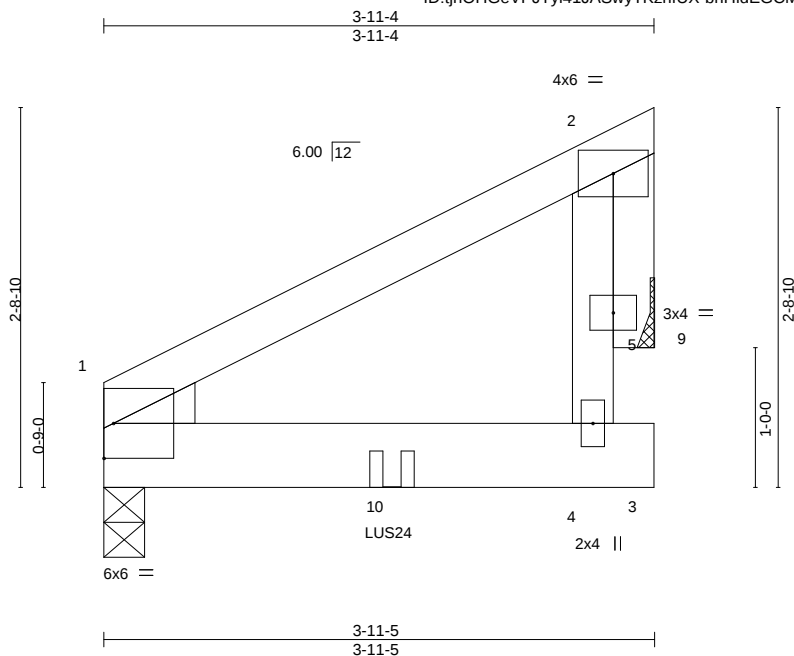


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J16	Truss Type Monopitch Girder	Qty 1	Ply 1	Summit/61 Hawthorn Ridge I41172692
Job Reference (optional)					

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:10 2020 Page 1
ID:tnOHGeVPJTyi41JASwyTKzhfUX-bnHidEGCms85EHt2t1gZ5qVYTnD2u7JDUjNxipzKpfZ



Scale = 1:16.5

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.01	4-8	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.02	4-8	>999	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.15	Horz(CT)	0.01	1	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-MP							
BCDL 10.0									Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 9=Mechanical
Max Horz 1=45(LC 33)
Max Uplift 1=-7(LC 12), 9=-31(LC 12)
Max Grav 1=318(LC 16), 9=312(LC 16)

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

WEBS 2-9=-324/33

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 2-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-51, 3-6=-20
Concentrated Loads (lb)
Vert: 10=-289(F)



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J17	Truss Type Jack-Open	Qty 1	Ply 1	Summit/61 Hawthorn Ridge I41172693
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:11 2020 Page 1
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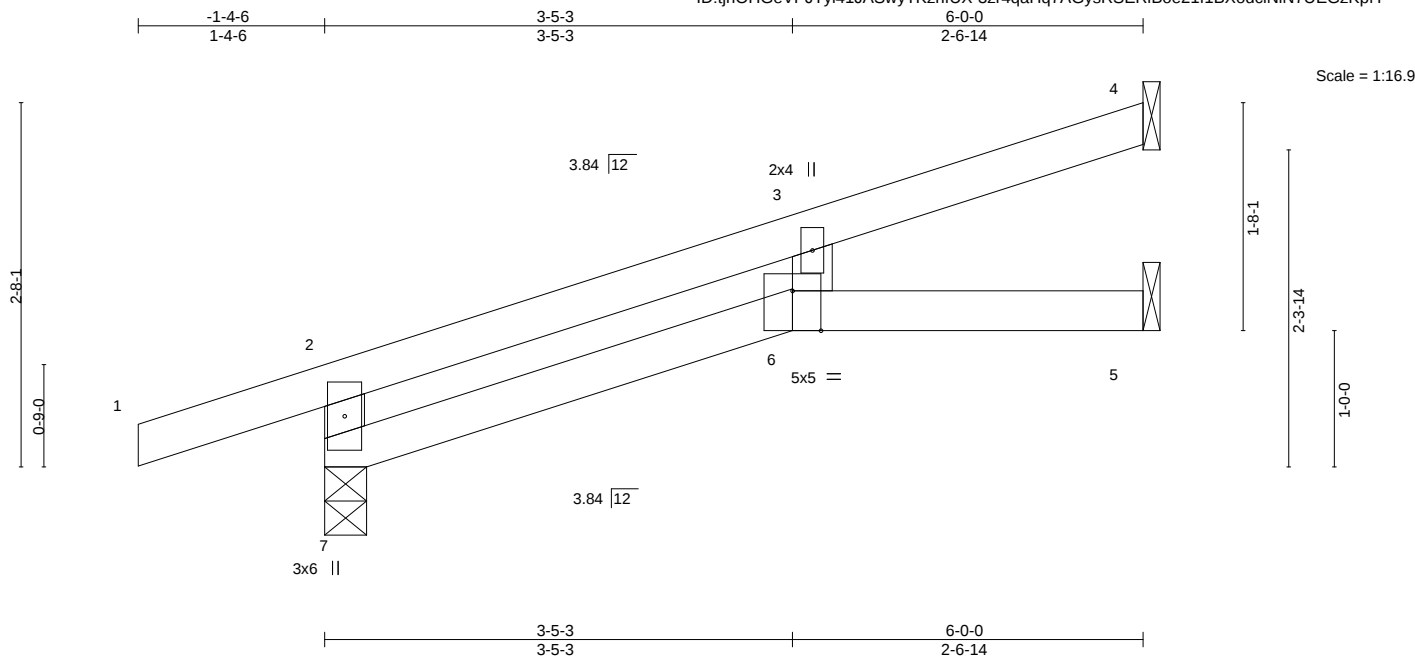


Plate Offsets (X,Y)-- [6:0-2-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.08	6-7	>849	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.14	6-7	>492	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.04	5	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL 10.0									Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 7=0-3-11, 4=Mechanical, 5=Mechanical
Max Horz 7=59(LC 8)
Max Uplift 7=-46(LC 8), 4=-25(LC 12), 5=-1(LC 12)
Max Grav 7=380(LC 2), 4=162(LC 17), 5=100(LC 17)

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

TOP CHORD 2-7=-290/54

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 5.
- 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.



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172694
2335469	J18	Jack-Open	2	1	Job Reference (optional)	

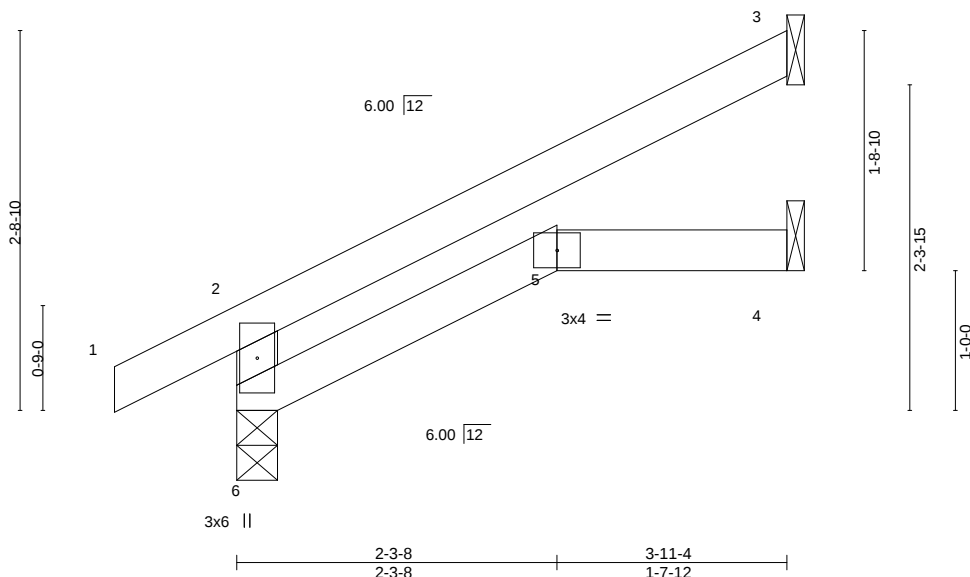
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:12 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-XAPS2wHSuTOpTb1Q_Si1AFatKayVM37Wx1s1mizKpfX



Scale = 1:16.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01 5 >999 240	MT20		197/144	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02 5 >999 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01 3 n/a n/a				
BCLL	0.0	Code IRC2018/TPI2014		Matrix-MR							
BCDL	10.0										
								Weight: 12 lb		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 6=54(LC 12)
Max Uplift 3=35(LC 12)
Max Grav 6=276(LC 17), 3=129(LC 17), 4=70(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 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.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J19	Truss Type Jack-Open	Qty 1	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)
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I41172695

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

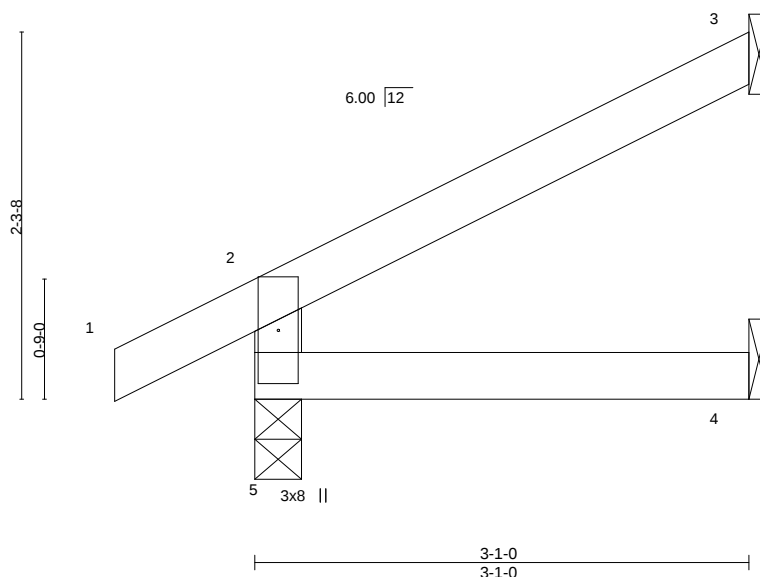
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:12 2020 Page 1

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-XAPS2wHSuTOpTb1Q_Si1AFav0ayBM37Wx1s1mizKpfX

-0-10-8
0-10-8

3-1-0
3-1-0

Scale = 1:14.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00 4-5 >999 240	MT20		197/144	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01 4-5 >999 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 3 n/a n/a				
BCLL	0.0	Code IRC2018/TPI2014		Matrix-MR							
BCDL	10.0										

Weight: 9 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=44(LC 12)
Max Uplift 5=-1(LC 12), 3=-27(LC 12)
Max Grav 5=230(LC 17), 3=93(LC 17), 4=54(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172696
2335469	J20	Jack-Open	1	1	Job Reference (optional)	

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

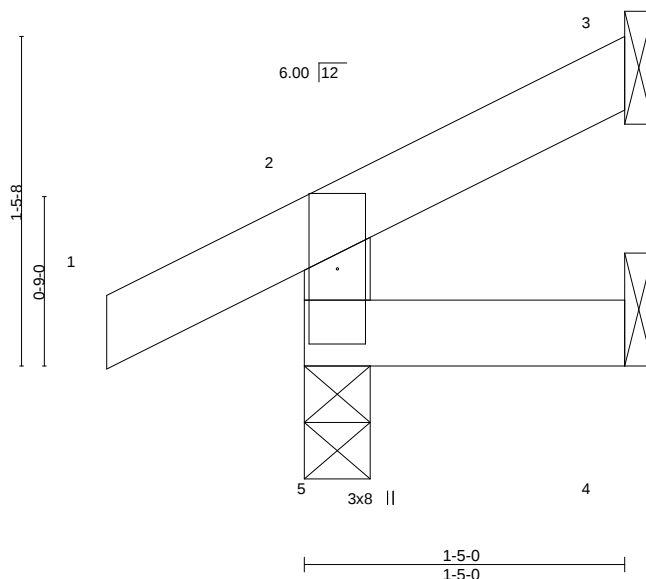
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:13 2020 Page 1

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-0-10-8
0-10-8

1-5-0
1-5-0

Scale = 1:10.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.07	Vert(LL) 0.00	5	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT) -0.00	5	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 5 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=27(LC 9)
Max Uplift 5=-3(LC 12), 3=-12(LC 12)
Max Grav 5=158(LC 17), 3=22(LC 17), 4=22(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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, 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

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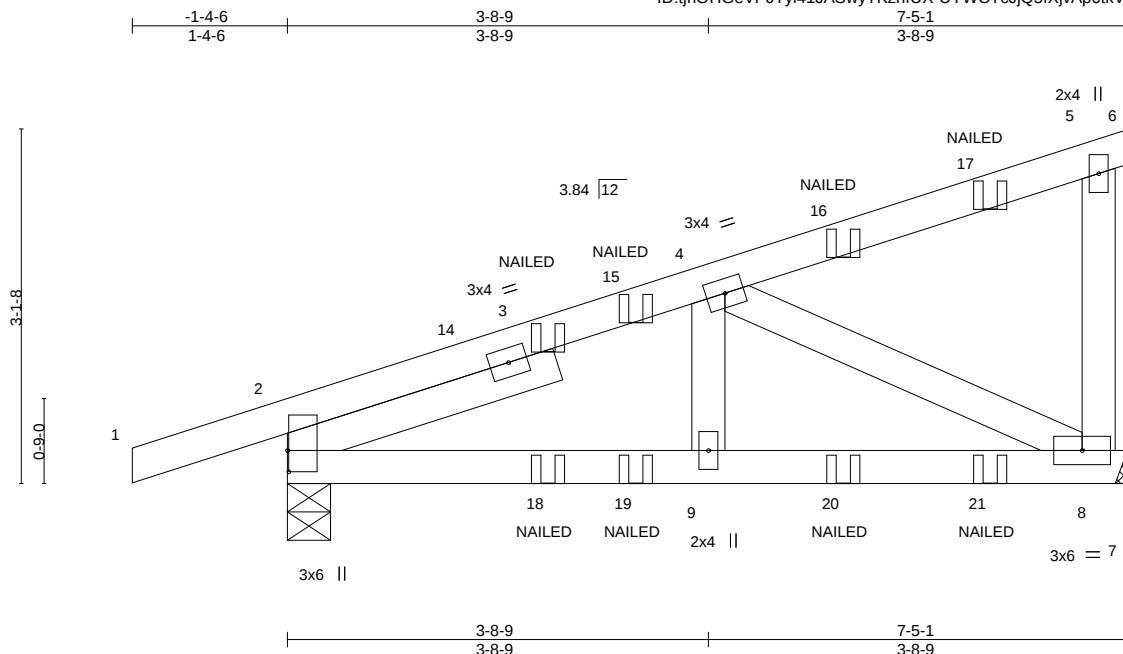


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172697
2335469	J21	Diagonal Hip Girder	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:14 2020 Page 1
ID:tjnOHGeVPJTyi41JASwyTKzhfUX-UYWCTcJjQ5fXjvAp6tkVFgfC9OcwpyepPLL8rbzKpfV



Scale = 1:20.3

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.01	8-9	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.02	8-9	>999	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.13	Horz(CT)	0.00	8	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-MP							
BCDL 10.0									Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 2-6-0

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

REACTIONS. (size) 2=0-4-9, 8=Mechanical
Max Horz 2=77(LC 8)
Max Uplift 2=-45(LC 8), 8=-39(LC 12)
Max Grav 2=444(LC 2), 8=446(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-447/13
BOT CHORD 2-9=-51/440, 8-9=-51/440
WEBS 4-8=-488/56

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-51, 7-10=-20
Concentrated Loads (lb)
Vert: 16=-27(B) 17=-77(F) 18=1(B) 19=-9(F) 20=-6(B) 21=-55(F)



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J22	Truss Type Jack-Open	Qty 1	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172698
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Builders FirstSource (Valley Center),

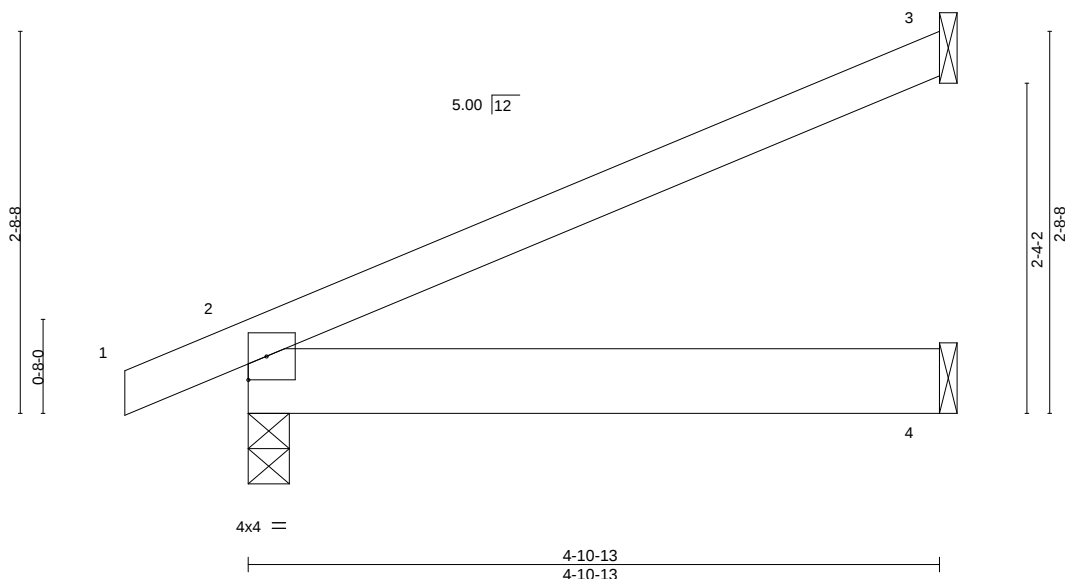
Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:15 2020 Page 1

ID: tjnOHGeVPJTiy41JASwyTKzhfUX-yl4agxKLBOOnOK3l?gbGkouCNkoyLYQtyd?5hN1zKpfU



Scale = 1:16.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.28	in (loc)	I/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.17	Vert(LL)	-0.01 4-7 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.02 4-7 >999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.01 3 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014							Weight: 16 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2

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=59(LC 12)
Max Uplift 3=-33(LC 12), 2=-6(LC 12)
Max Grav 3=148(LC 17), 2=285(LC 2), 4=100(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 4, 2020

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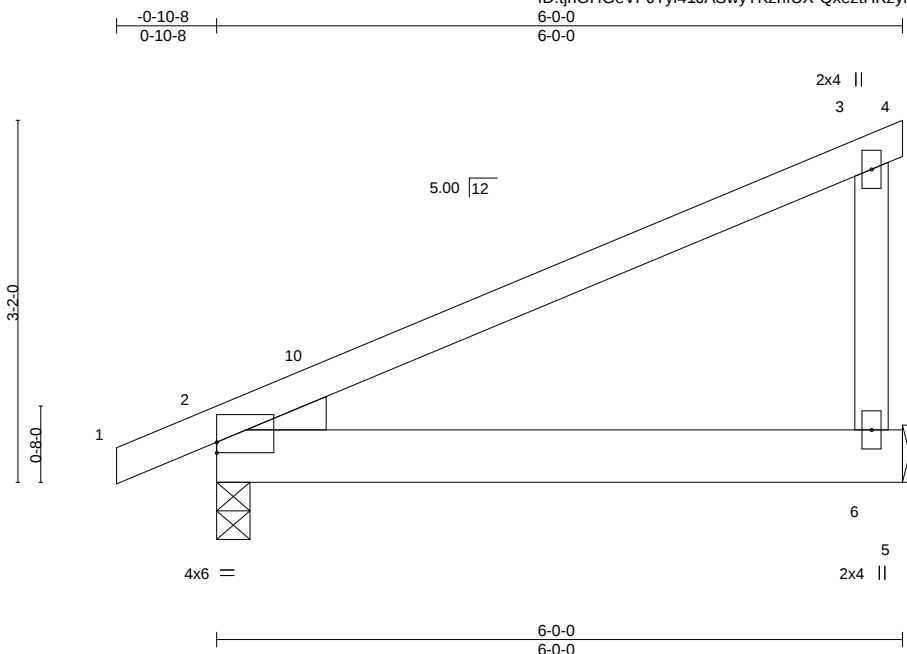
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J23	Truss Type Jack-Open	Qty 2	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172699
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:16 2020 Page 1

ID: tjnOHGeVPJT41JASwyTKzhfUX-QxeztHKzyivFyCKCDInzL5kWkCHZHtc6sfqFvTzKpfT



Scale = 1:20.2

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.02	6-9	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.04	6-9	>999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.01	2	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS						
BCDL 10.0								Weight: 23 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 2=-6(LC 12), 6=-31(LC 12)
Max Grav 2=323(LC 2), 6=300(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCDL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 4, 2020

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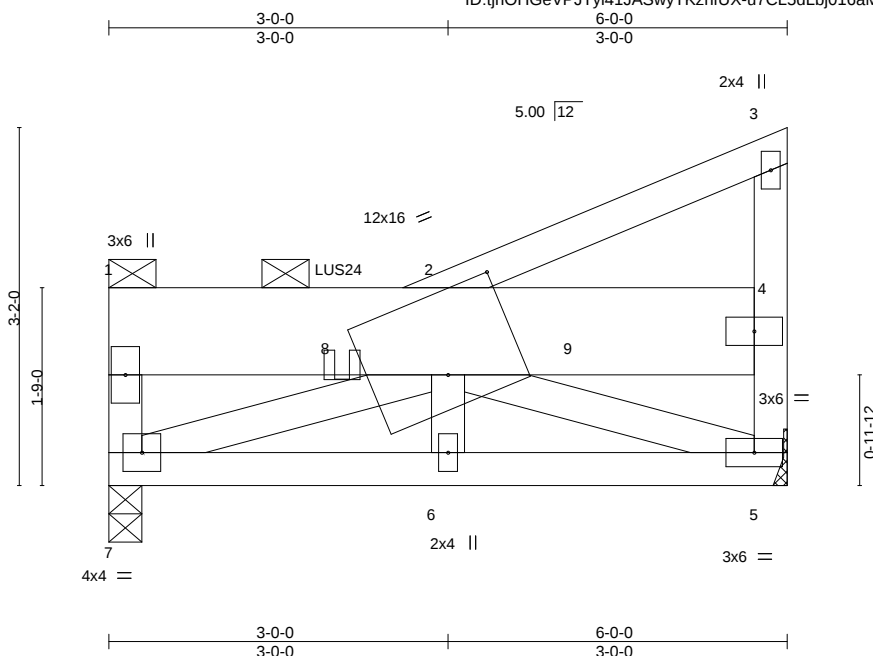
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J24	Truss Type Jack-Open Girder	Qty 1	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172700
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:17 2020 Page 1
ID:tnOHGeVPJTyi41JASwyTKzhfUX-u7CL5dLbj016aMvOn0lCtJHkKbcV0HDF5JaoSvzKpfS



Scale = 1:20.4

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.01	6	>999	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.02	6	>999	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.20	Horz(CT)	0.01	5	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-MP							
BCDL 10.0									Weight: 44 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-4: 2x10 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0"-0 oc purlins, except
2'-0"-0 oc purlins: 1-4.
BOT CHORD Rigid ceiling directly applied or 10'-0"-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 7=0-3-8
Max Horz 7=40(LC 12)
Max Uplift 5=-64(LC 12), 7=-22(LC 12)
Max Grav 5=1069(LC 2), 7=1018(LC 2)

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

BOT CHORD 6-7=-47/997, 5-6=-47/998
WEBS 1-7=-554/28, 4-5=-618/53, 2-5=-1066/50, 2-7=-1085/10

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent at 2'-0"-12 from the left end to connect truss(es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



May 4, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172700
2335469	J24	Jack-Open Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
 Uniform Loads (plf)
 Vert: 2-3=-51, 5-7=-20, 1-2=-61
 Concentrated Loads (lb)
 Vert: 8=-638(F) 9=-678(F)


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

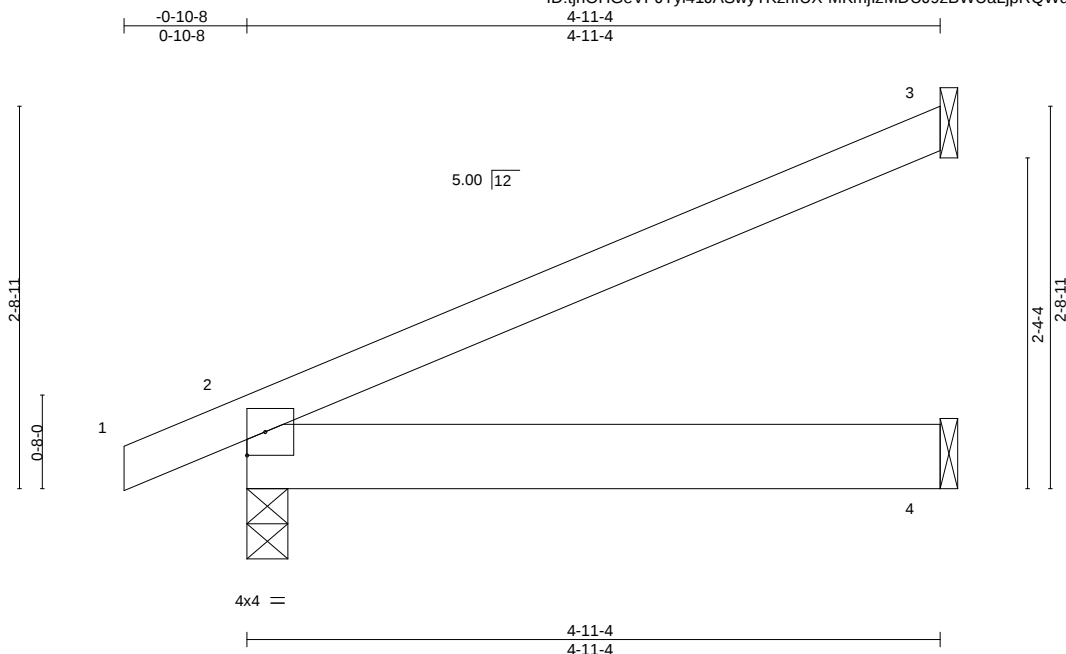
Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172701
2335469	J25	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:18 2020 Page 1

ID:tnOHGeVPJTiy41JASwyTKzhfUX-MKmjIzMDUJ9zBWUaLjPQWquu?_0lmcPJzJM_MzKpfR



Scale = 1:16.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.28	Vert(LL)	-0.01	4-7	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.17	Vert(CT)	-0.02	4-7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.01	3	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2

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=59(LC 12)
Max Uplift 3=-34(LC 12), 2=-6(LC 12)
Max Grav 3=149(LC 17), 2=286(LC 2), 4=101(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 3, 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

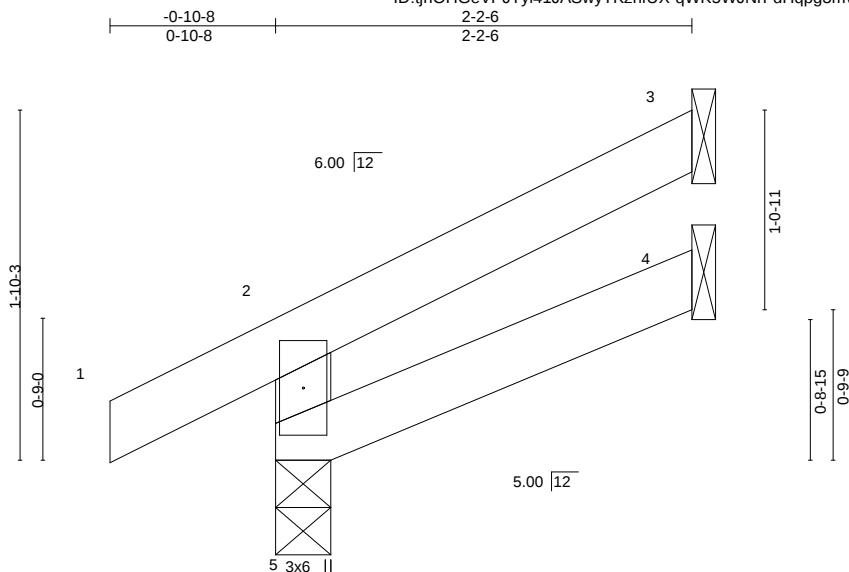
Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172702
2335469	J26	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:19 2020 Page 1

ID: tjnOHGeVPJTyi41JASwyTKzhfUX-qWK5WJNrFdHqpg3mvQKgykM6uPMRUDsYYd3vWozKpfQ



Scale = 1:12.2

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00 5 >999 240	MT20		197/144	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00 4-5 >999 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00 3 n/a n/a				
BCLL	0.0	Code	IRC2018/TPI2014	Matrix-MR							
BCDL	10.0										

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=34(LC 9)
Max Uplift 5=-1(LC 12), 3=-20(LC 12)
Max Grav 5=187(LC 17), 3=56(LC 17), 4=36(LC 7)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 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.



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



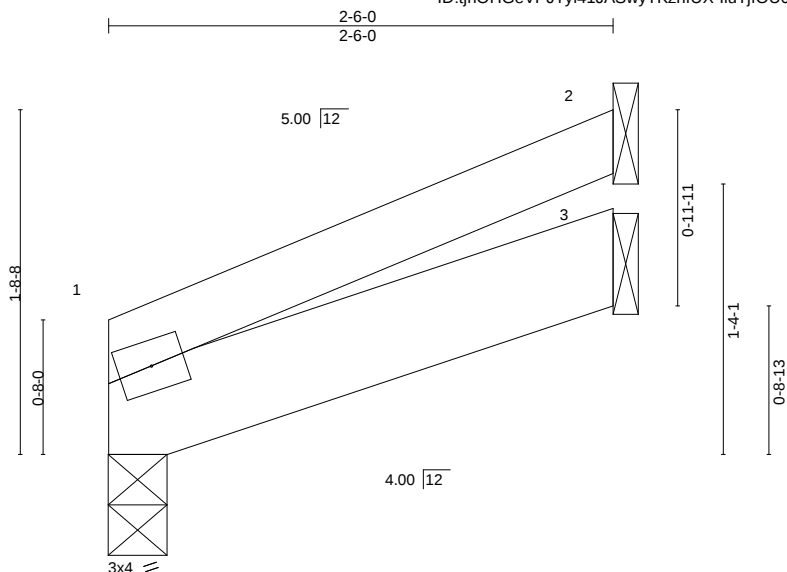
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J27	Truss Type JACK-OPEN	Qty 1	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172703
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:20 2020 Page 1
ID:tjnOHGeVPJTYi41JASwyTKzhfUX-liuTjfOU0xPgRqezS8rvVxvlypiPDg6hnHoS2EzKpfP



Scale = 1:11.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.05	Vert(LL)	-0.00 6	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	-0.00 6	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00 1	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TP12014						Weight: 8 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=26(LC 12)
Max Uplift 2=-16(LC 12)
Max Grav 1=110(LC 2), 2=63(LC 2), 3=52(LC 7)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

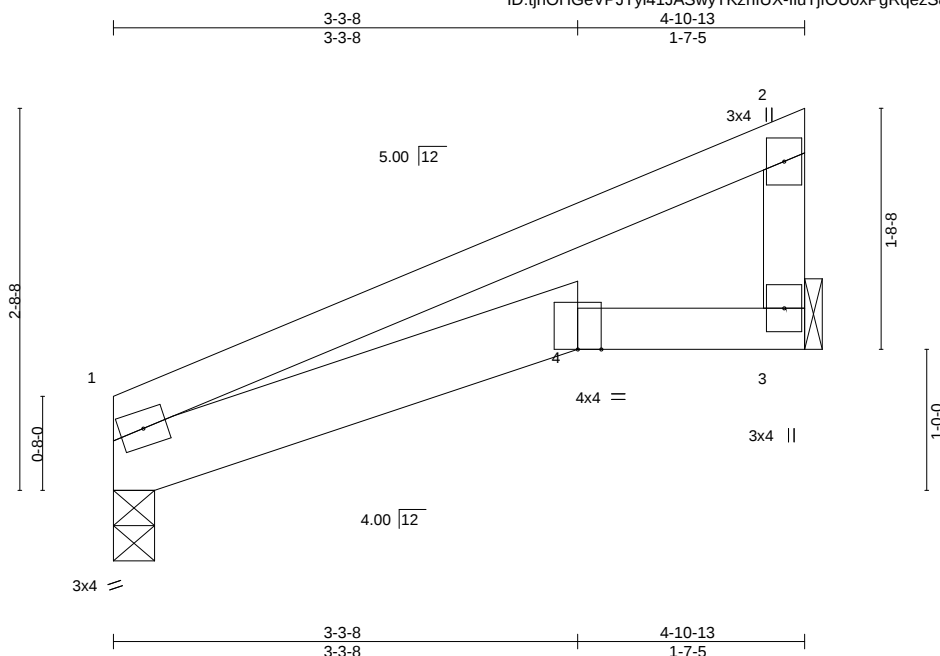


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J28	Truss Type MONOPITCH	Qty 1	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172704
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:20 2020 Page 1
ID:tjnOHGeVPJTiy41JASwyTKzhfUX-liuTjffOU0xPgRqezS8rvVxvFPpgGDg6hnHoS2EzKpfP



Scale = 1:16.3

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.22	in (loc)	I/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.18	Vert(LL)	-0.01 4-7 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.02 4-7 >999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.00 3 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014							Weight: 16 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
1-4: 2x6 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 1=0-3-8, 3=Mechanical
Max Horz 1=53(LC 9)
Max Uplift 1=-4(LC 12), 3=-20(LC 12)
Max Grav 1=229(LC 16), 3=229(LC 16)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss J29	Truss Type Jack-Open Girder	Qty 1	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172705
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:22 2020 Page 1
ID:tnOHGeVPJTyi41JASwyTKzhfUX-F5?E8LPkXYfOg7oLaZuNaM_RicLyha4_EaHZ77zKpfN

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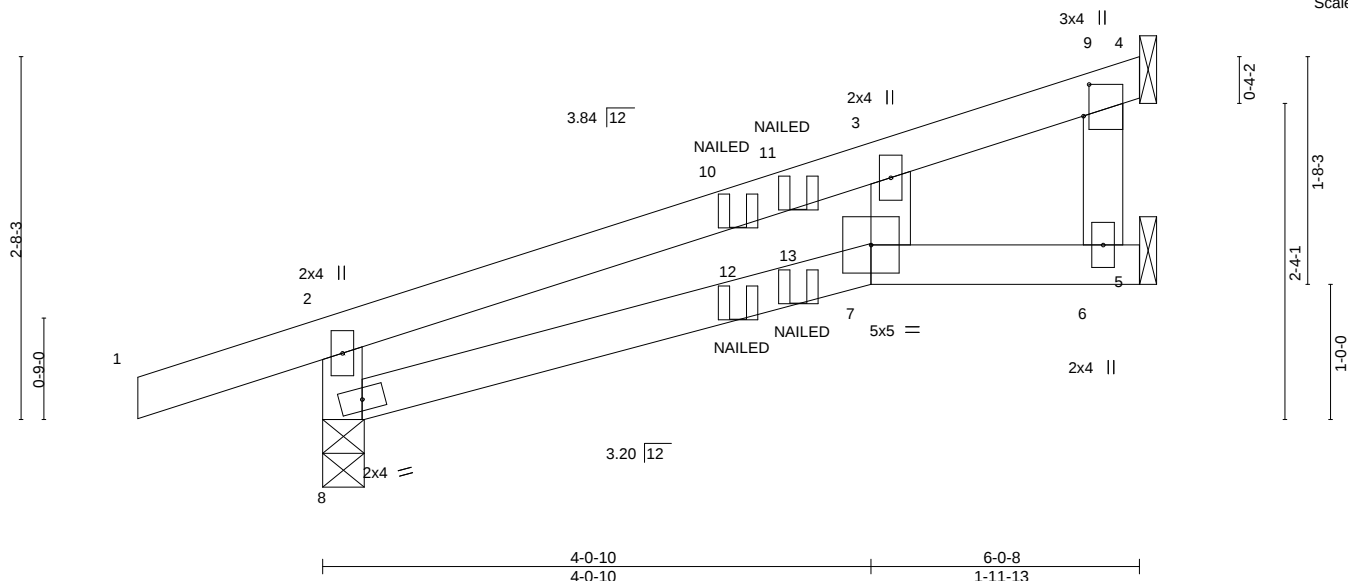


Plate Offsets (X,Y)-- [4:0-2-13,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.87	Vert(LL)	-0.16	7	>430	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.17	Vert(CT)	-0.25	7	>274	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.07	6	n/a	n/a		
BCLL 0.0	Rep Stress Incr NO	Matrix-MP							
BCDL 10.0	Code IRC2018/TPI2014								
								Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 8=0-3-11, 6=Mechanical, 4=Mechanical
Max Horz 8=60(LC 34)
Max Uplift 8=-62(LC 8), 6=-12(LC 28), 4=-347(LC 8)
Max Grav 8=389(LC 2), 6=363(LC 34), 4=192(LC 17)

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

TOP CHORD 2-8=-346/95
WEBS 4-6=-360/22

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- N/A
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6 except (jt=lb) 4=347.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-51, 2-4=-51, 7-8=-20, 5-7=-20



May 4, 2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172705
2335469	J29	Jack-Open Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 12=-17(F) 13=0(B)

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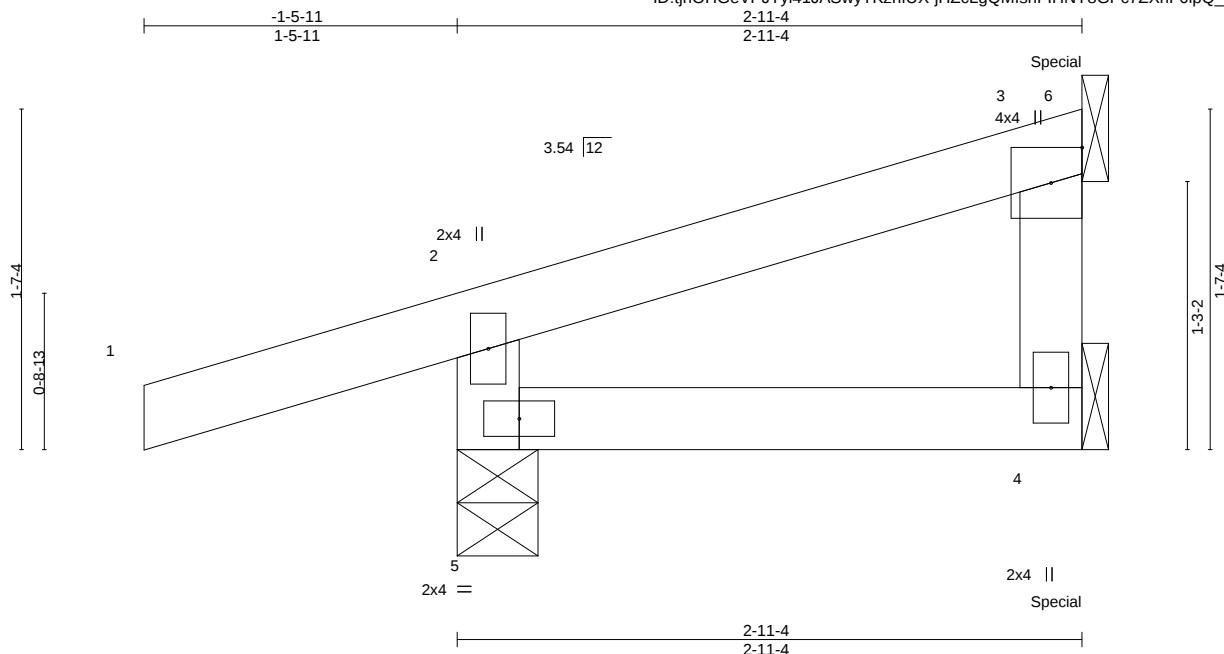


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss JD01	Truss Type Jack-Open	Qty 2	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172706
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:23 2020 Page 1
ID: tjnOHGeVPJTyi41JASwyTKzhfUX-jhZclgQMIsnFIHNY8GPc7ZXnF0ipQ_d8TE17fZzKpfM



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.18	Vert(LL)	-0.00	4-5	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	-0.01	4-5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Horz(CT)	-0.28	3	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 10 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-4-9, 3=Mechanical, 4=Mechanical
Max Horz 5=33(LC 8)
Max Uplift 5=-70(LC 8), 3=-2195(LC 8), 4=-343(LC 28)
Max Grav 5=273(LC 17), 3=370(LC 46), 4=2216(LC 30)

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

WEBS 3-4=-2195/354

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 3=2195, 4=343.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 32 lb down and 17 lb up at 2-11-4 on top chord, and 10 lb down and 5 lb up at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-51, 2-3=-51, 4-5=-20
- Concentrated Loads (lb)
Vert: 3=-0(F) 4=1(F)



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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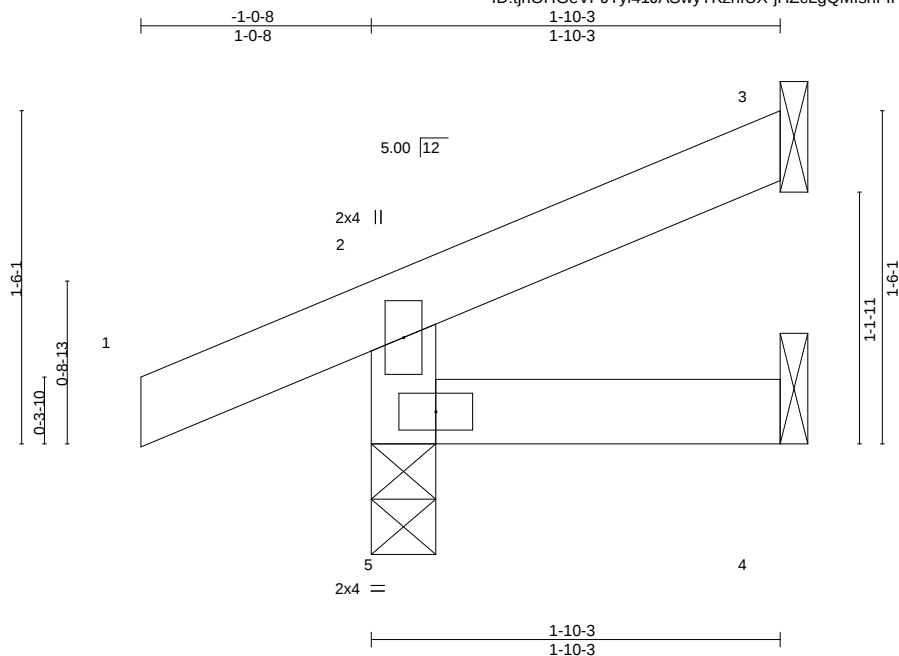


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	141172707
2335469	JD02	Jack-Open	2	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:23 2020 Page 1
ID:tnOHGeVPJTyi41JASwyTKzhfUX-jHZcLgQMIsnFIHNY8GPc7ZXoZ0JTQ1r8TE17fZzKpfm



Scale = 1:10.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	5	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 6 lb	FT = 20%
BCDL 10.0										

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=28(LC 9)
Max Uplift 3=-14(LC 12), 5=-21(LC 8)
Max Grav 3=37(LC 17), 4=29(LC 7), 5=190(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 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.



May 4, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172708
2335469	JD03	Jack-Open	3	1	Job Reference (optional)	

Builders FirstSource (Valley Center),

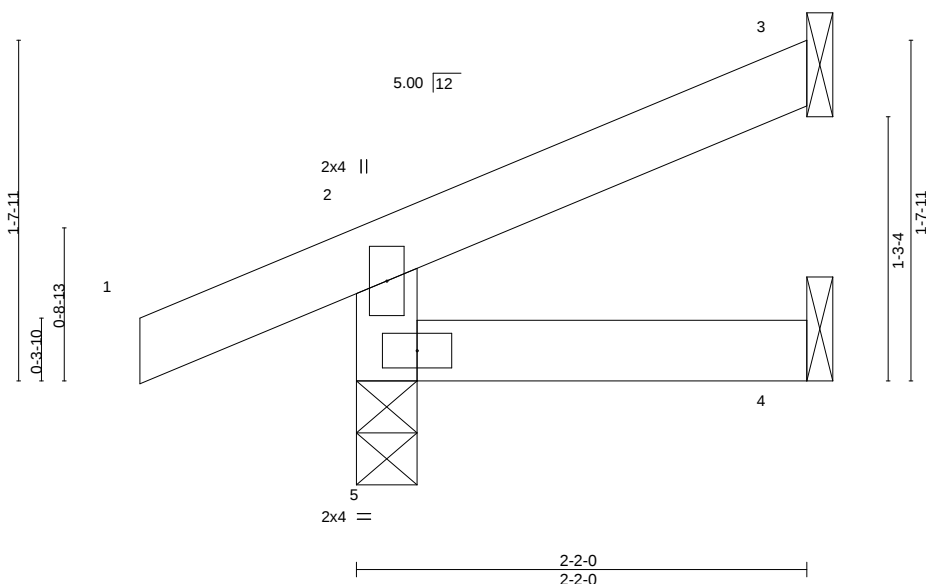
Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:24 2020 Page 1

ID:tnOHGeVPJT41JASwyTKzhfUX-BT7_Z0R_39v6vRxkh_wrfn4yHQ3e9U5HiumgB?zKpL



Scale = 1:11.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	5	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	4-5	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-MR						Weight: 7 lb	FT = 20%
BCDL 10.0										

LUMBER-

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

BRACING-

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=30(LC 9)
Max Uplift 3=-16(LC 12), 5=-19(LC 8)
Max Grav 3=49(LC 17), 4=35(LC 7), 5=201(LC 17)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 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.



May 4, 2020

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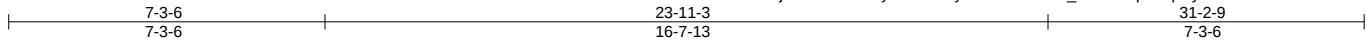


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss LG1	Truss Type GABLE	Qty 1	Ply 1	Summit/61 Hawthorn Ridge I41172709
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:26 2020 Page 1
ID:tnOHGeVPJTyi41JASwyTKzhfUX-7sFI_iSEbn9q9I57pPyJlC9ISEkUdNta9CFnGuzKpfJ



Scale = 1:53.1

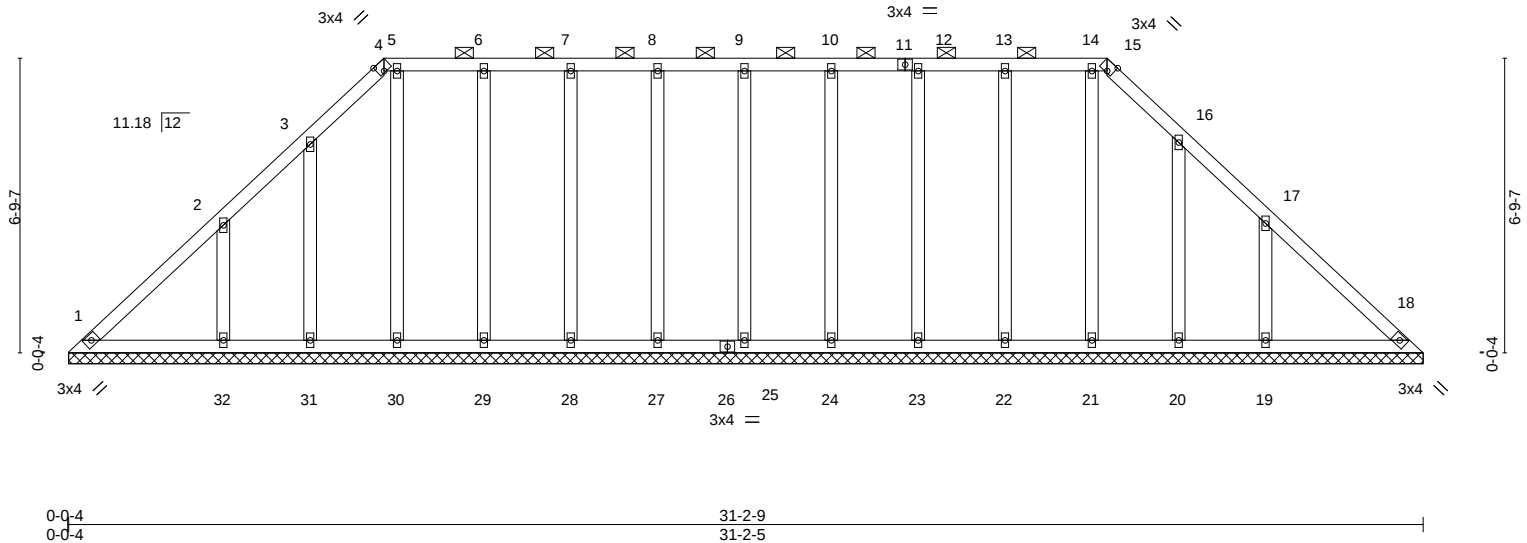


Plate Offsets (X,Y)-- [4:0-1-10,Edge], [15:0-1-10,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	18	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-S							
BCDL 10.0									Weight: 157 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except 2'-0-0 oc purlins (6'-0-0 max.): 4-15.
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS. All bearings 31-2-5.
(lb) - Max Horz 1=-122(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 20, 19
Max Grav All reactions 250 lb or less at joint(s) 1, 18, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20 except 32=307(LC 19), 19=312(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 20, 19.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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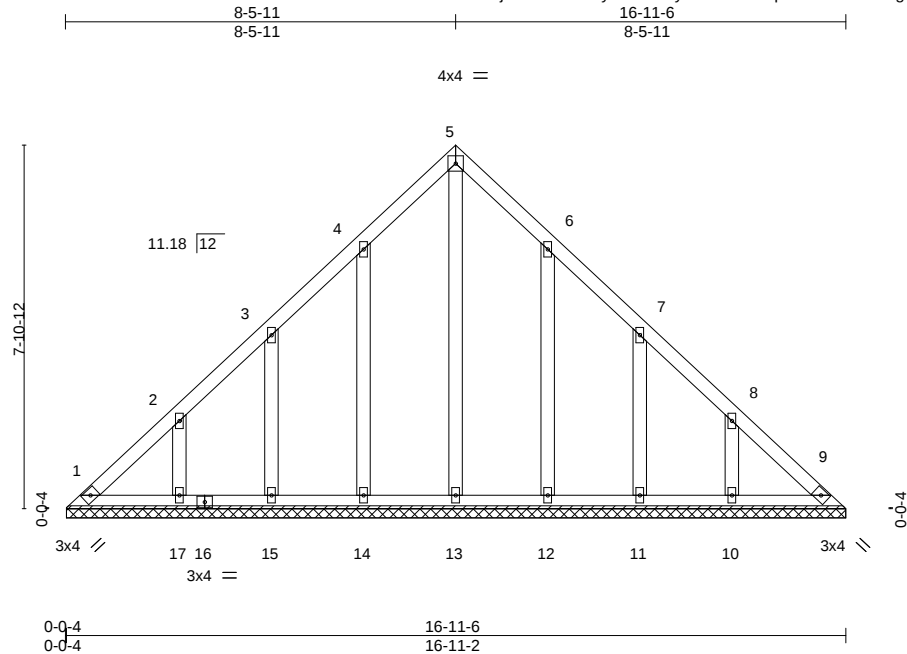
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge
2335469	LG2	GABLE	1	1	I41172710
Job Reference (optional)					

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:27 2020 Page 1

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-b2p7B2TtM4HhmvJN6TYHPiU8d5HMqAJs?KoKzKpfl



Scale = 1:50.0

Plate Offsets (X,Y)-- [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	9	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-S						Weight: 78 lb	FT = 20%
BCDL 10.0										

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

REACTIONS. All bearings 16-11-2.
(lb) - Max Horz 1=-142(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 17, 15, 14, 12, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 17, 15, 14, 13, 12, 11, 10

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 17, 15, 14, 12, 11, 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.



May 4, 2020

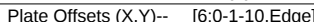
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:29 2020 Page 1
ID:tinOHGeVPJTvi41JASwyTKzhfUX-XRwtckV7uiYP0CqhUXW0MannZRlOaqi20rAUrtDzKpfG



LUMBER-

BRACING-

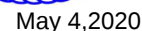
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-14.
Rigid ceiling directly applied or 10-0-0 oc bracing.
1 Row at midpt 14-15, 7-22, 8-21, 9-20, 10-19, 11-18,
12-17, 13-16

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

TOP CHORD $1-2 = -265/173$

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCELL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 27, 26, 25, 23, 22, 21, 20, 19, 18, 17, 16 except (jt=lb) 15=113.
- 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) 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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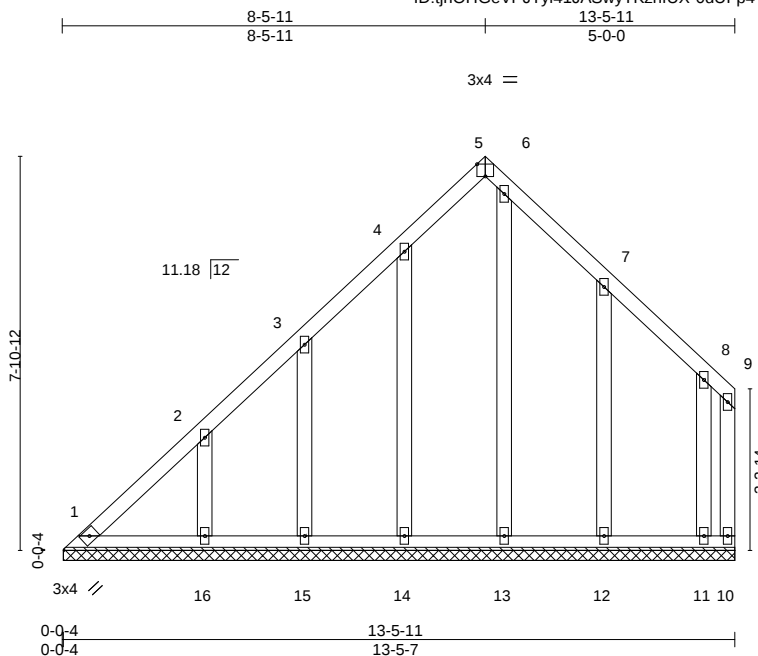


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge
2335469	LG4	GABLE	1	1	I41172712
Job Reference (optional)					

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:30 2020 Page 1
ID:tnOHGeVPJT41JASwyTKzhfUX-OdUFp4Vlf?gGdMPu2E1Fv2K_?r6tZAQA4qE_PfzKpfF



Scale = 1:46.2

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.14	Horz(CT)	-0.00	10	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-S							
BCDL 10.0									Weight: 70 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 13-5-7.
(lb) - Max Horz 1=173(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 16, 15, 14, 13, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 1, 10, 16, 15, 14, 13, 12, 11

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 16, 15, 14, 13, 12, 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.



May 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

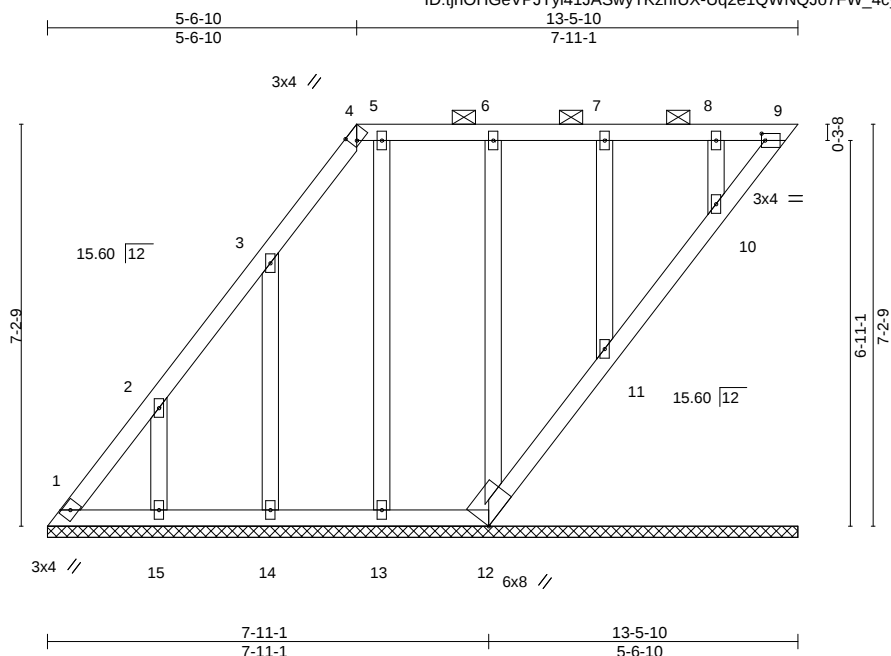
Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge
2335469	LG5	GABLE	1	1	I41172713

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:31 2020 Page 1

ID:tnOHGeVPJTiy41JASwyTKzhfUX-Uq2e1QWNQJo7FW_4cyYUSFsADFS8le4JJUzYx6zKpfE



Scale = 1:41.4

Plate Offsets (X,Y)-- [4:0-1-4,Edge], [9:0-0-12,0-1-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	9	n/a
BCLL	0.0	Code IRC2018/TPI2014		Matrix-S					
BCDL	10.0								
								PLATES	GRIP
								MT20	197/144
								Weight: 67 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 13-5-10.
(lb) - Max Horz 1=178(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 14, 11, 10 except 15=-102(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12, 15, 14, 13, 11, 10

FORCES.

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 12, 14, 11, 10 except (it=lb) 15=102.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 11, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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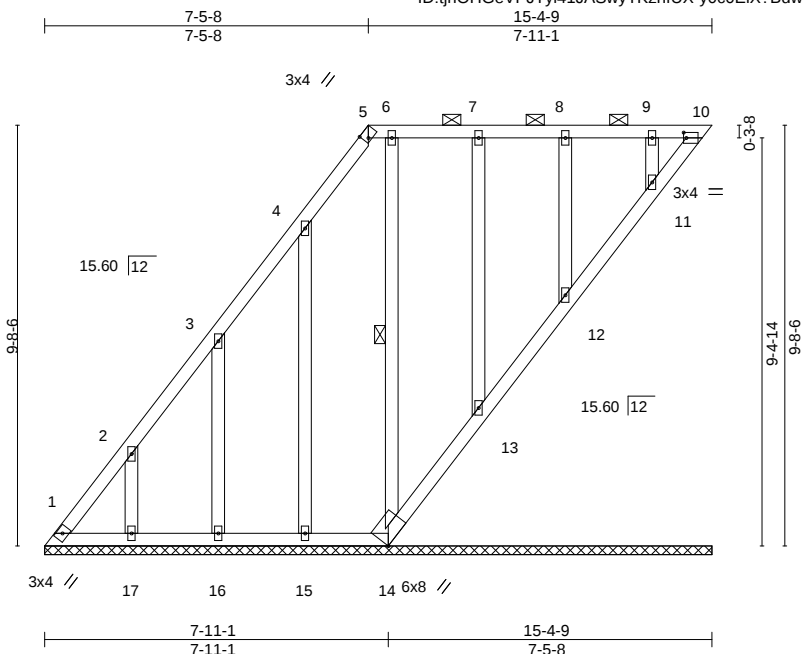


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172714
2335469	LG6	GABLE	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:32 2020 Page 1
ID:tnOHGeVPJTty41JASwyTKzhfUX-y0c0EIX?BdwztgZG9f3j_TPLveoO14nSY8j5UYzKpfD



Scale = 1:53.1

Plate Offsets (X,Y)-- [5'-0-1'-4,Edge], [10'-0-0-12,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.15	Horz(CT)	-0.00	10	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-S						Weight: 84 lb	FT = 20%
BCDL 10.0										

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except 2'-0-0 oc purlins (6'-0-0 max.): 5-10.
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
WEBS 1 Row at midpt 6-14

REACTIONS. All bearings 15-4-9.
(lb) - Max Horz 1=241(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 14, 17, 15, 13, 12, 11 except 16=101(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 1, 10, 14, 17, 16, 15, 13, 12, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-289/152

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 14, 17, 15, 13, 12, 11 except (jt=lb) 16=101.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 13, 12, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 4, 2020

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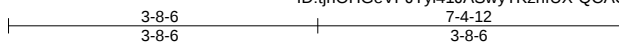
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss LG7	Truss Type GABLE	Qty 1	Ply 1	Summit/61 Hawthorn Ridge I41172715
Job Reference (optional)					

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

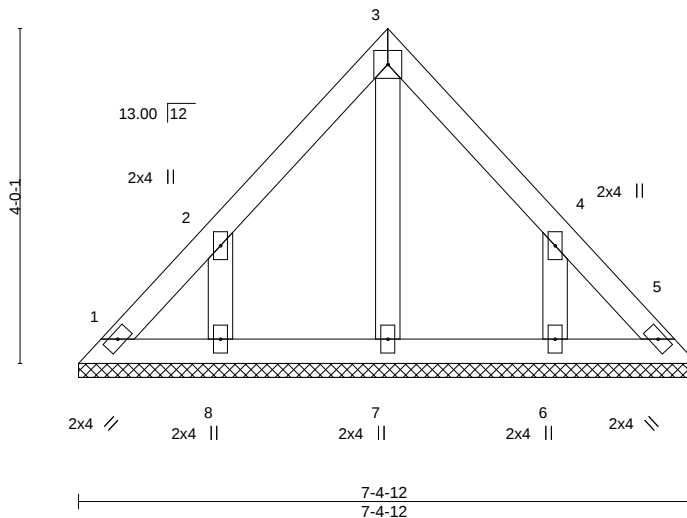
8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:33 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-QCAOS5Ydyw2qVq7TjNayXgyWn28nmZ1cmoSe0_zKpfC



4x4 =

Scale = 1:27.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	5	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-P						Weight: 27 lb	FT = 20%
BCDL 10.0										

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 7-4-12.
(lb) - Max Horz 1=70(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 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.



May 4, 2020

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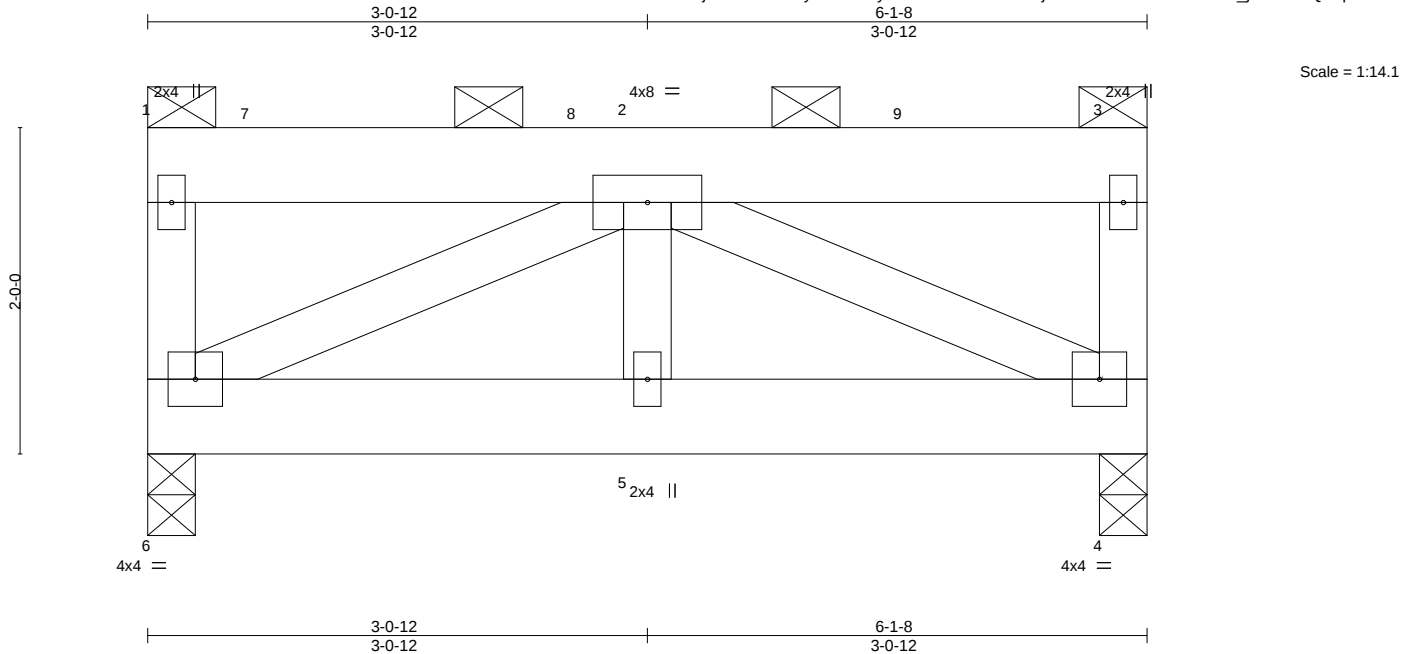


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss R1	Truss Type Flat Girder	Qty 1	Ply 2	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172716
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:34 2020 Page 1
ID:tnOHGeVPJTyi41JASwyTKzhfUX-uPkmfRYGjEAh6zifH45B3uUccSPVV_jl?SCCYQzKpfB



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.31	Vert(LL) -0.01 5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.18	Vert(CT) -0.02 5 >999 180		
BCLL 0.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.01 4 n/a n/a		
BCDL 10.0	Code IRC2018/TP12014			Weight: 64 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 4=0-3-8
Max Horz 6=42(LC 29)
Max Uplift 6=98(LC 6), 4=78(LC 7)
Max Grav 6=2407(LC 1), 4=1923(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1115/54, 3-4=-631/33
BOT CHORD 5-6=-103/2242, 4-5=-103/2242
WEBS 2-4=-2536/107, 2-6=-2536/109

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1339 lb down and 65 lb up at 0-9-0, and 1287 lb down and 63 lb up at 2-9-0, and 1236 lb down and 59 lb up at 4-9-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-61, 4-6=-20



May 4, 2020

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172716
2335469	R1	Flat Girder	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.240 s Mar 9 2020 MiTek Industries, Inc.
Fri May 1 16:16:35 2020
Page 2
ID:tjnOHGeVPJTYi41JASwyTKzhfUX-Mbl8tnZuUYIYk7HrrndQc51nMslkERYvE6xl4tzKpfA

LOAD CASE(S)
Standard
Concentrated Loads (lb)
Vert: 7=-1338 8=-1286 9=-1235


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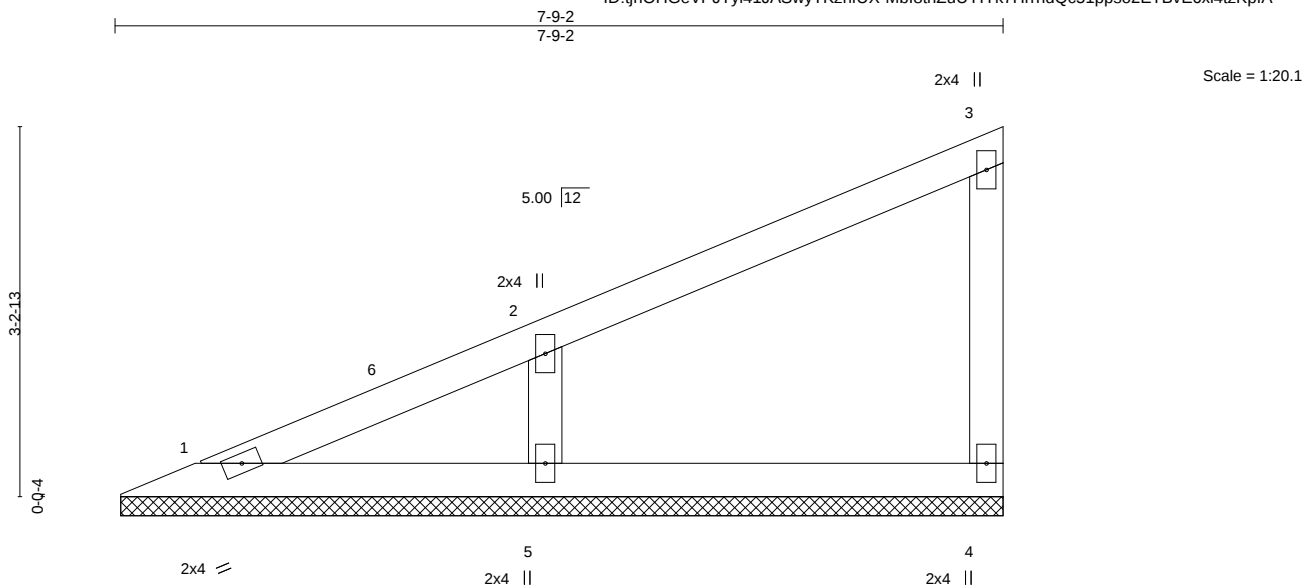


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss V01	Truss Type Valley	Qty 1	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172717
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:35 2020 Page 1
ID:tjnOHGeVPJTyi41JASwyTKzhfUX-Mbl8tnZuUYIYk7HrrndQc51ppso2ETBvE6xl4tzKpfA



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=7-8-8, 4=7-8-8, 5=7-8-8
Max Horz 1=86(LC 9)
Max Uplift 4=-10(LC 9), 5=-41(LC 12)
Max Grav 1=89(LC 2), 4=151(LC 16), 5=403(LC 16)

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

WEBS 2-5=-317/78

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

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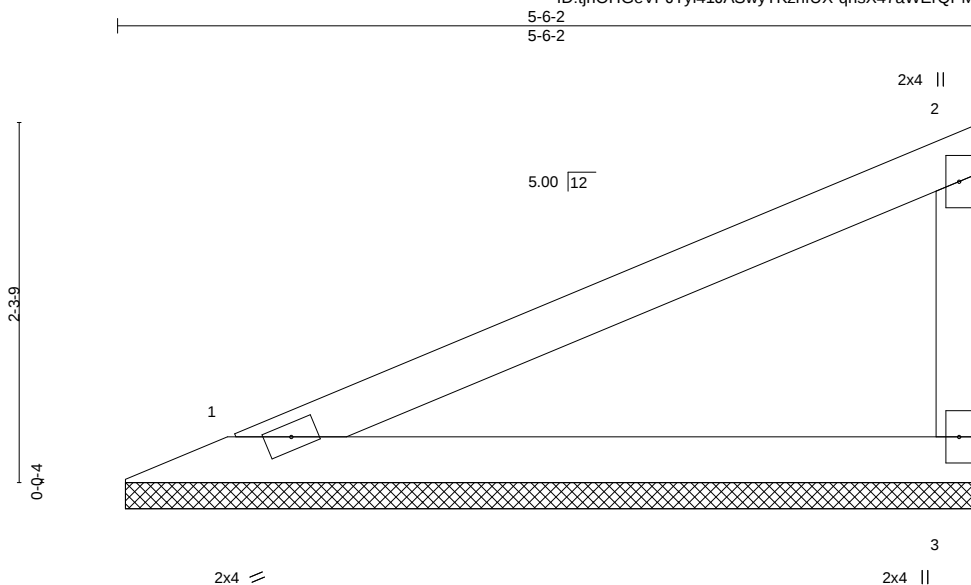
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172718
2335469	V02	Valley	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:36 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-qnsX47aWErQPMHs2OV8f8JZxuG6Tzv32SmhJdJzKpf9



Scale = 1:14.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.44	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.22	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-5-8, 3=5-5-8
Max Horz 1=58(LC 11)
Max Uplift 1=-7(LC 12), 3=-17(LC 12)
Max Grav 1=221(LC 16), 3=221(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge
2335469	V03	Valley	1	1	I41172719
Job Reference (optional)					

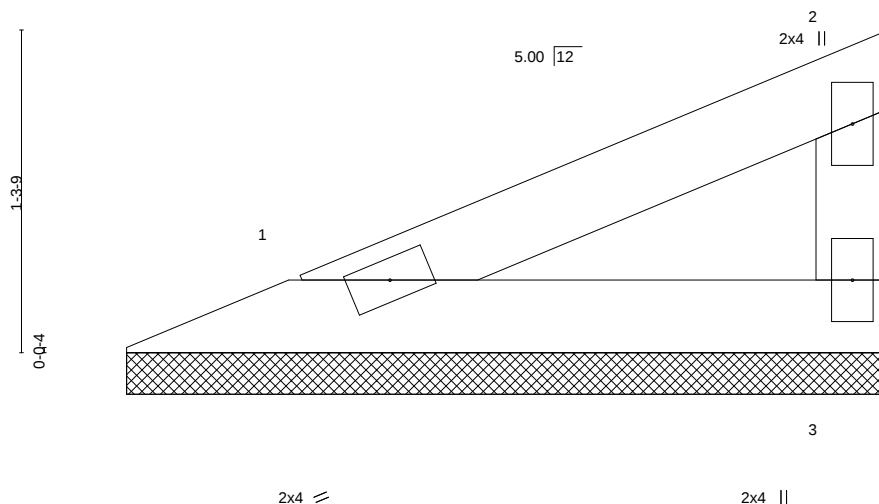
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:37 2020 Page 1

ID:tjnOHGeVPJTyi41JASwyTKzhfUX-l_PvHTb8?9YGzRREyCfuhW6BDfVQiMJChQQs9IzKpf8

3-1-5
3-1-5

Scale = 1:9.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-0-11, 3=3-0-11
Max Horz 1=28(LC 11)
Max Uplift 1=-3(LC 12), 3=-8(LC 12)
Max Grav 1=99(LC 2), 3=99(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

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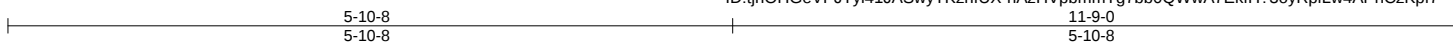
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2335469	Truss V04	Truss Type Valley	Qty 1	Ply 1	Summit/61 Hawthorn Ridge Job Reference (optional)	I41172720
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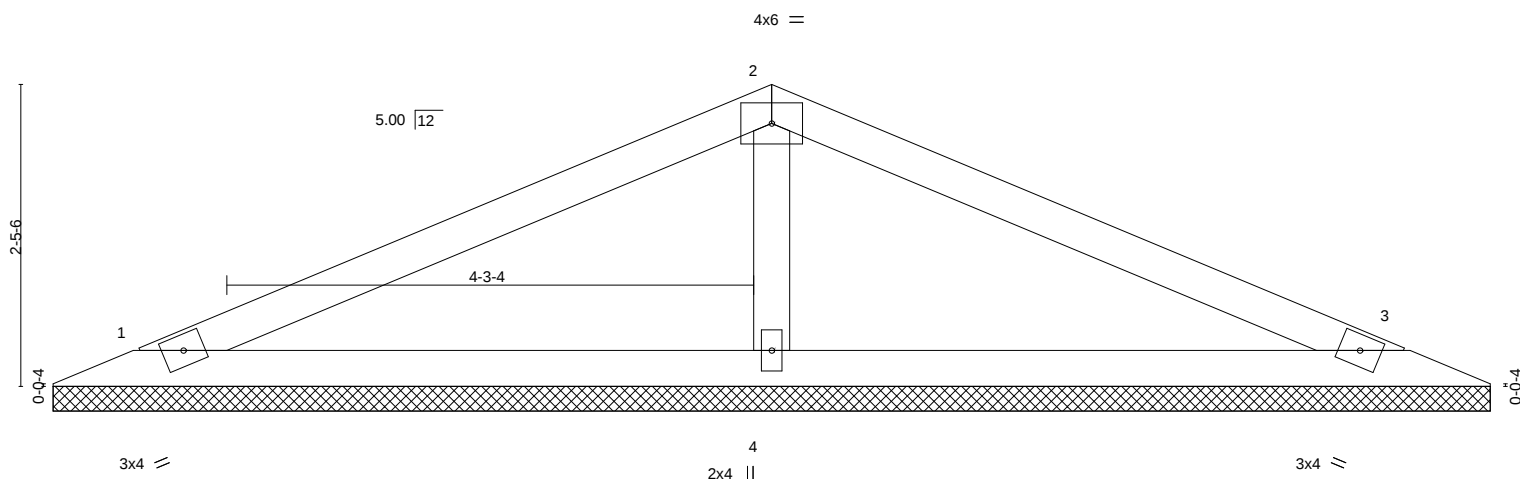
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:38 2020 Page 1

ID:tnOHGeVPJTyi41JASwyTKzhfUX-nAzHVpbmmTg7bb0QWwA7EkfH?3oyRpLw4APhCzKpf7



Scale = 1:18.7



0-0-10 0-0-10	11-9-0 11-8-6								
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.40	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.22	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-S							
BCDL 10.0	Code IRC2018/TPI2014							Weight: 28 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

REACTIONS. (size) 1=11-7-13, 3=11-7-13, 4=11-7-13
Max Horz 1=20(LC 12)
Max Uplift 1=-15(LC 12), 3=-18(LC 13)
Max Grav 1=225(LC 16), 3=225(LC 17), 4=516(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-361/40

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

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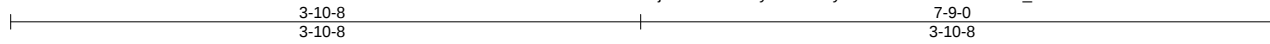
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/61 Hawthorn Ridge	I41172721
2335469	V05	Valley	1	1	Job Reference (optional)	

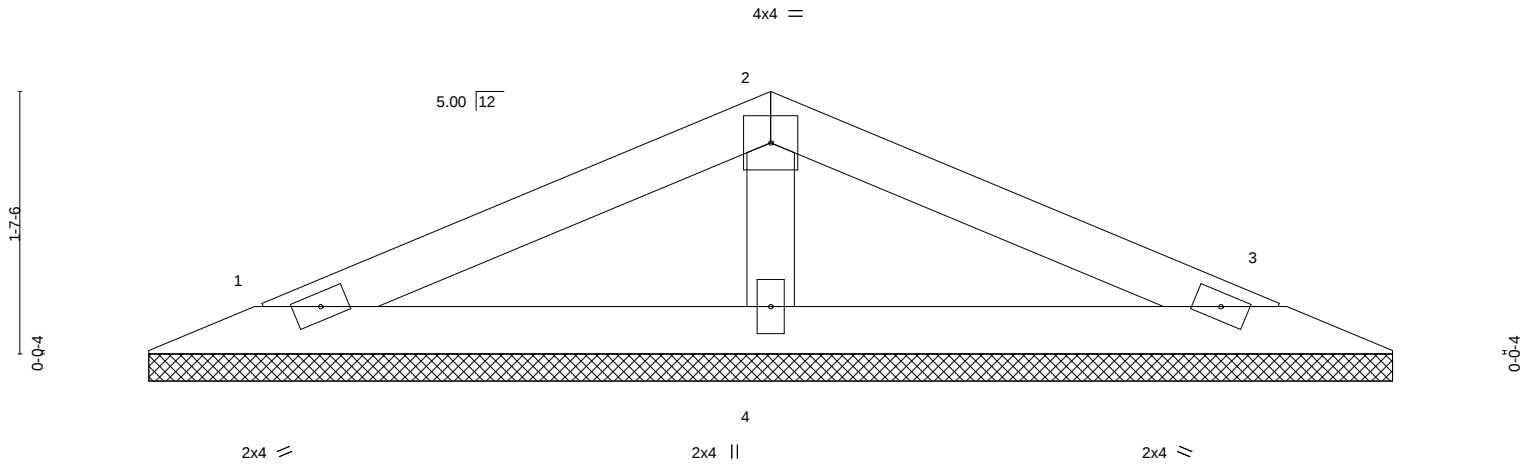
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri May 1 16:16:39 2020 Page 1

ID:tjnOHGeVPJTiy41JASwyTKzhfUX-FMXfi9cOXmo_Dlbc4dhMmxBWDTAHAGPU9kvzDezKpf6



Scale = 1:14.2



0-0-10		3-10-8		7-9-0															
0-0-10		3-9-14		3-10-8															
LOADING (psf)		SPACING-		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP			
TCLL (roof) 25.0		2-0-0		TC 0.18		Vert(LL)		n/a		-		n/a		999		MT20		197/144	
Snow (Pf/Pg) 15.4/20.0		Plate Grip DOL 1.15		BC 0.08		Vert(CT)		n/a		-		n/a		999					
TCDL 10.0		Lumber DOL 1.15		WB 0.03		Horz(CT)		0.00		3		n/a		n/a					
BCLL 0.0		Rep Stress Incr YES		Matrix-P												Weight: 18 lb		FT = 20%	
BCDL 10.0		Code IRC2018/TPI2014																	

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=7-7-13, 3=7-7-13, 4=7-7-13
Max Horz 1=12(LC 12)
Max Uplift 1=12(LC 12), 3=14(LC 13)
Max Grav 1=140(LC 16), 3=140(LC 17), 4=283(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 4, 2020

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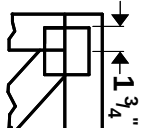
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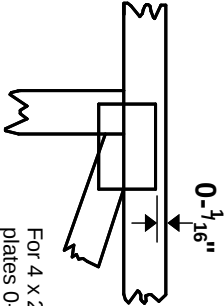
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

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

*** Plate location details available in MITek 2012 software or upon request.**

PLATE SIZE

4 X 4

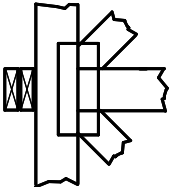
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



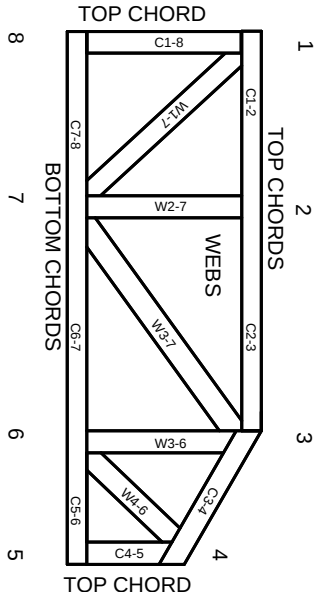
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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