



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

Re: 2379052
Summit/63 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: I41748575 thru I41748629

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

Missouri COA: Engineering 001193



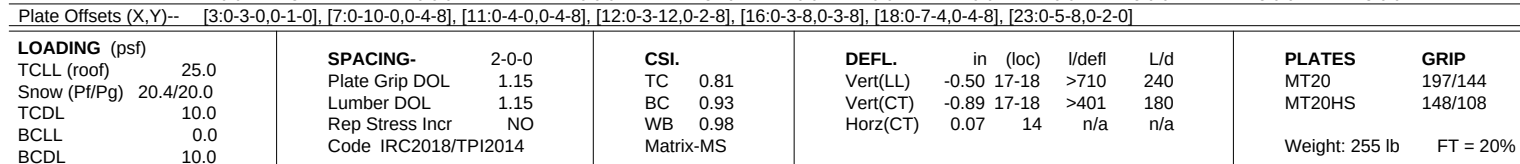
June 22, 2020

Johnson, Andrew ,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
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI**

07/21/2020



REACTIONS. All bearings 0-3-8 except (jt=length) 23=0-4-2 (input: 0-3-8 + bearing block).
 (lb) - Max Horz 2=-25(LC 80)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 14 except 23=-193(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 2=555(LC 44), 27=679(LC 69), 23=4971(LC 43), 14=1883(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-616/22, 3-4=-35/258, 4-6=-150/2078, 6-7=-285/6945, 7-8=-1065/77, 8-9=-947/74, 9-10=-4982/239, 10-11=-5393/252, 11-12=-7513/332, 12-13=-3426/144, 13-14=-3819/145
BOT CHORD	2-28=-8/527, 27-28=-10/505, 26-27=-737/19, 23-26=-3749/160, 20-23=-1092/67, 19-20=-133/3566, 18-19=-133/3566, 17-18=-361/8182, 16-17=-298/7511, 14-16=-101/3519
WEBS	3-28=0/294, 3-27=-842/76, 7-23=-6443/300, 7-20=-88/2761, 9-20=-3141/138, 9-18=-78/1684, 10-18=-21/1675, 11-18=-3780/209, 11-17=-767/78, 12-17=0/621, 12-16=-4269/208, 13-16=0/1141, 4-27=-193/796, 4-26=-1625/193, 6-26=0/1984, 6-23=-3654/229

- NOTES:-**
- 1) 2x6 SP 2400F 2.0E bearing block 12" long at jt. 23 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12
Total fasteners. Bearing is assumed to be SP 2400F 2.0E.
 - 2) Unbalanced roof live loads have been considered for this design.
 - 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCdL=4.2psf; h=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
 - 4) 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.
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) 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.
 - 7) Provide adequate drainage to prevent water ponding.
 - 8) All plates are MT20 plates unless otherwise indicated.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2



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LEE'S SUMMIT, MISSOURI

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017



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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	A1	Roof Special Girder	1	1	I41748575
Job Reference (optional)					

- NOTES-**
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 27, 14 except (jt=lb) 23=193.
 - This truss 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 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 15-10-8 oc max. starting at 22-0-12 from the left end to 37-11-4 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (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: 1-3=-51, 3-7=-61, 7-8=-51, 8-10=-61, 10-11=-51, 11-13=-61, 13-15=-51, 29-32=-20
 - Concentrated Loads (lb)
 - Vert: 5=-55(B) 8=-126(B) 10=-126(B) 13=-65(B) 25=-47(B) 28=-160(B) 7=-27(B) 20=-81(B) 19=-81(B) 18=-81(B) 9=-121(B) 16=-61(B) 35=-55(B) 36=-55(B) 38=-55(B) 40=-55(B) 41=-55(B) 43=-106(B) 44=-15(B) 46=-121(B) 49=-121(B) 51=-29(B) 52=-49(B) 53=-51(B) 54=-51(B) 55=-53(B) 56=-111(B) 57=-153(B) 58=-47(B) 59=-47(B) 60=-47(B) 61=-47(B) 62=-47(B) 63=-190(B) 64=-167(B) 65=-81(B) 66=-81(B) 67=-167(B) 68=-199(B) 69=-53(B) 70=-48(B) 71=-48(B) 72=-48(B)

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LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

16023 Swingley Ridge Rd
Chesterfield, MO 63017

 **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.

Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	A2	Roof Special	1	1	I41748576
Job Reference (optional)					

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:00 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-?zLTt5uWgaXyfe_cGpOgKc_7ZpsAaVdGvFSoaqz3jSL
0-10-8 6-0-0 10-4-5 16-9-7 20-1-12 26-0-0 28-0-0 32-0-0 34-8-6 39-8-6 44-8-6 50-0-0 50-10-8
0-10-8 6-0-0 4-4-5 6-5-2 3-4-5 5-10-4 2-0-0 4-0-0 2-8-6 5-0-0 5-0-0 5-3-10 0-10-8
Scale = 1:91.9

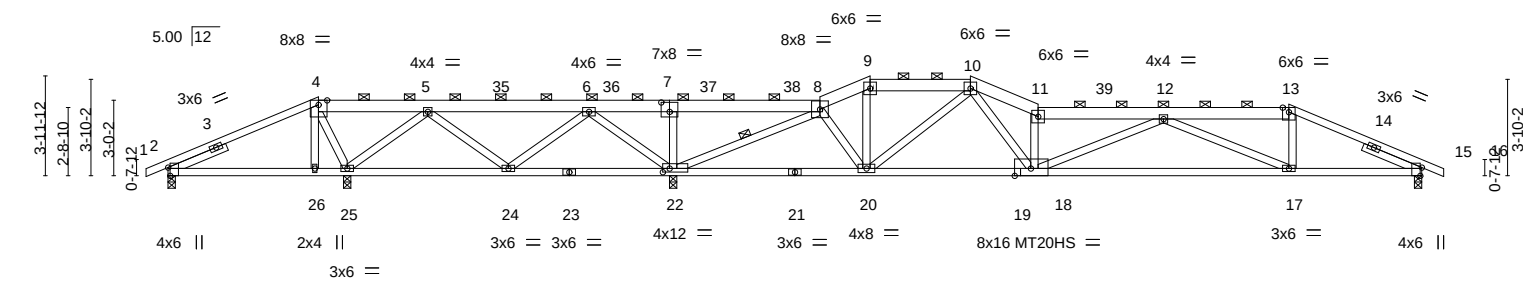


Plate Offsets (X,Y)--		6-0-0	7-1-12	13-6-14	20-1-12	26-0-0	28-0-0	32-0-0	34-8-6	44-8-6	50-0-0
		6-0-0	1-1-12	6-5-2	6-6-14	5-10-4	2-0-0	4-0-0	2-8-6	10-0-0	5-3-10
		[2:0-3-15,Edge], [4:0-4-2,Edge], [7:0-4-0,0-4-8], [15:0-3-15,Edge], [18:0-7-12,Edge], [18:0-1-12,0-0-0], [19:0-0-0,0-1-12], [22:0-3-4,0-1-12]									
LOADING (psf)		SPACING		CSI		DEFL.		PLATES		GRIP	
TCLL (roof) 25.0		2-0-0		TC 0.71		in (loc) l/defl L/d		MT20		197/144	
Snow (Pf/Pg) 20.4/20.0		Plate Grip DOL 1.15		BC 0.92		Vert(LL) -0.30 17-18 >999 240		MT20HS		148/108	
TCDL 10.0		Lumber DOL 1.15		WB 0.67		Vert(CT) -0.68 17-18 >526 180					
BCLL 0.0		Rep Stress Incr YES		Matrix-AS		Horz(CT) 0.06 15 n/a n/a					
BCDL 10.0		Code IRC2018/TPI2014						Weight: 224 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD 2x6 SPF No.2 *Except* 1-4,13-16: 2x4 SPF No.2		TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-3-7 max.): 4-8, 9-10, 11-13.	
BOT CHORD 2x4 SPF No.2 *Except* 19-21,21-23: 2x4 SP 2400F 2.0E		BOT CHORD Rigid ceiling directly applied.	
WEBS 2x4 SPF No.2		WEBS 1 Row at midpt 8-22	
SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0			

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=33(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 22 except 25=186(LC 70)
Max Grav All reactions 250 lb or less at joint(s) except 2=565(LC 44), 25=437(LC 69), 15=1160(LC 2), 22=2868(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-506/59, 4-5=-360/65, 5-6=-20/774, 6-7=-28/2604, 7-8=-29/2632, 8-9=-750/49,
9-10=-670/46, 10-11=-2801/111, 11-12=-2651/87, 12-13=-1841/100, 13-15=-2069/89
BOT CHORD 2-26=-34/470, 25-26=-34/463, 22-24=-1478/67, 20-22=-72/291, 18-20=-10/1491,
17-18=-110/2773, 15-17=-36/1869
WEBS 4-25=-359/47, 8-22=-3046/66, 8-20=0/984, 10-20=-1101/58, 10-18=-66/1841,
11-18=-1254/93, 12-18=-310/147, 12-17=-1146/104, 13-17=0/614, 7-22=-480/65,
5-25=-85/530, 5-24=-856/72, 6-24=0/1043, 6-22=-1578/58

- 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, 15, 22 except (jt=lb) 25=186.
 - 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.



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07/21/2020
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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748576
2379052	A2	Roof Special	1	1	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.

RELEASE FOR CONSTRUCTION

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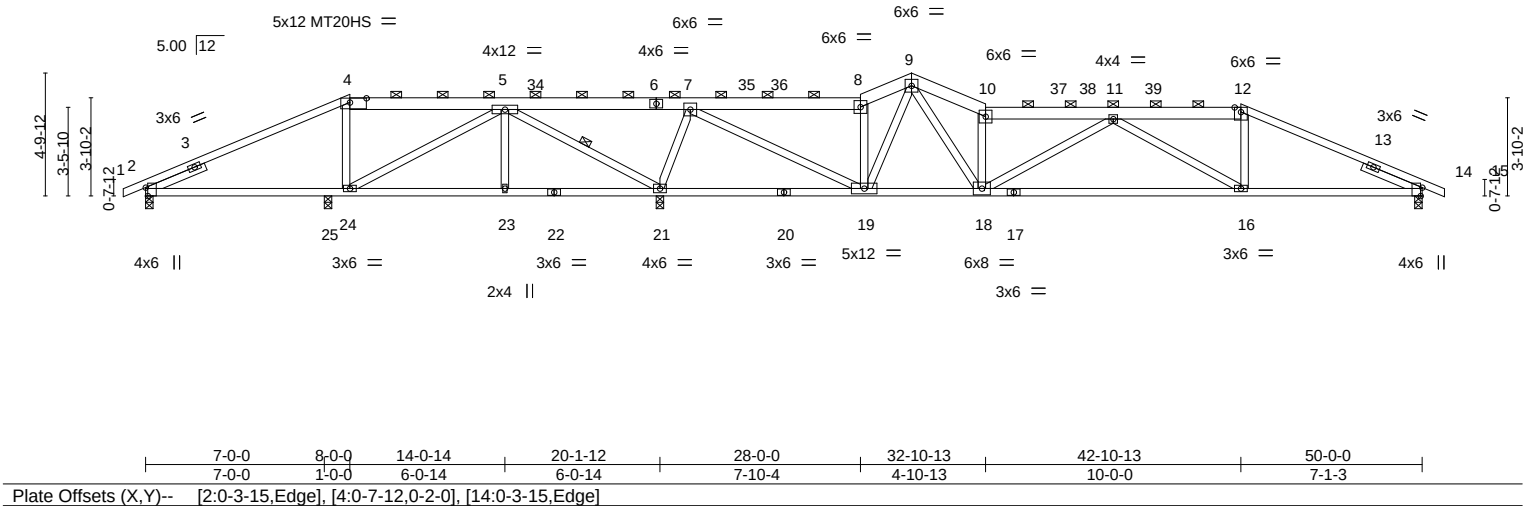
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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	A3	Roof Special	1	1	I41748577
Job Reference (optional)					

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:03 2020 Page 1
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-0-10-8 8-0-0 14-0-14 21-4-0 28-0-0 30-0-0 32-10-13 37-10-13 42-10-13 50-0-0 50-10-8
0-10-8 8-0-0 6-0-14 7-3-2 6-8-0 2-0-0 2-10-13 5-0-0 5-0-0 7-1-3 0-10-8
Scale = 1:90.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.78	Vert(LL) -0.28 16-18 >999 240	MT20HS	148/108
TCDL 10.0	Lumber DOL 1.15	WB 0.59	Vert(CT) -0.61 16-18 >591 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 226 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except
1-4: 2x4 SP 2400F 2.0E, 12-15: 2x4 SPF No.2	2-0-0 oc purlins (5-0-8 max.): 4-8, 10-12.
BOT CHORD 2x4 SP 2400F 2.0E *Except*	BOT CHORD Rigid ceiling directly applied.
2-22,14-17: 2x4 SPF No.2	WEBS 1 Row at midpt 5-21
WEBS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0	

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-42(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 21, 14
Max Grav All reactions 250 lb or less at joint(s) except 2=618(LC 47), 21=2786(LC 41), 14=1186(LC 2), 25=284(LC 65)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-520/122, 4-5=-498/137, 5-7=0/1883, 7-8=-901/82, 8-9=-977/100, 9-10=-2108/144,
10-11=-1961/113, 11-12=-1821/132, 12-14=-1979/119
BOT CHORD 2-25=-87/482, 24-25=-87/482, 23-24=-563/145, 21-23=-563/145, 19-21=-1301/41,
18-19=0/1039, 16-18=-100/2258, 14-16=-50/1835
WEBS 4-24=-363/50, 5-24=-32/711, 5-21=-1849/80, 7-21=-1796/83, 7-19=-30/2394,
8-19=-606/85, 9-19=-546/4, 9-18=-84/1649, 10-18=-1060/107, 11-18=-462/76,
11-16=-614/71, 12-16=0/478

- 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 21, 14.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



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2379052	A4	Roof Special	1	1	I41748578
Job Reference (optional)					

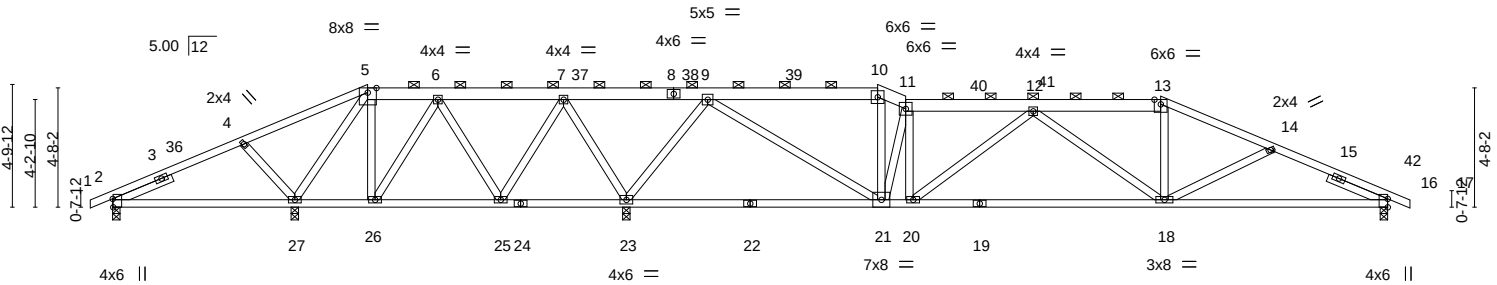
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:05 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Lw8Mwpy3V6AFIPtZ2Mzr0fh10qdbFhq?2XAZF2z3jSG

0-10-8	5-1-12	10-0-0	12-9-1	17-8-3	23-4-0	30-0-0	31-1-3	36-1-3	41-1-3	45-4-14	50-0-0	50-10-8
0-10-8	5-1-12	4-10-4	2-9-1	4-11-2	5-7-13	6-8-0	1-1-3	5-0-0	5-0-0	4-3-10	4-7-2	0-10-8

Scale = 1:90.4



7-1-12	10-0-0	15-2-10	20-1-12	30-0-0	31-1-3	41-1-3	50-0-0
7-1-12	2-10-4	5-2-10	4-11-2	9-10-4	1-1-3	10-0-0	8-10-13
Plate Offsets (X,Y)-- [2:0-3-15,Edge], [5:0-4-2,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	0.54	Vert(LL)	-0.19 18-20	>999	240	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.42 18-20	>848	180		
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.03 16	n/a	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL	10.0									Weight: 236 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2 *Except* 1-5,13-17: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-8-6 max.): 5-10, 11-13.
BOT CHORD	2x4 SPF No.2 *Except* 19-22,22-24: 2x4 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0		

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=42(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 16 except 23=-117(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 2=441(LC 40), 27=586(LC 61), 23=2889(LC 39), 16=1164(LC 62)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-478/32, 6-7=0/676, 7-9=-33/1674, 9-10=-1090/79, 10-11=-1142/77,
11-12=-1349/77, 12-13=-1623/114, 13-14=-1796/107, 14-16=-1998/136
BOT CHORD 2-27=-25/276, 25-26=-348/95, 23-25=-1058/99, 21-23=-562/71, 20-21=-1/1330,
18-20=-47/1761, 16-18=-80/1804
WEBS 4-27=-459/86, 9-23=-1965/136, 9-21=-36/1883, 11-21=-1016/71, 11-20=-2/471,
12-20=-560/88, 12-18=-321/132, 13-18=0/383, 14-18=-326/74, 5-26=-299/36,
6-26=-7/424, 6-25=-712/46, 7-25=-7/795, 7-23=-1307/89

- 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 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 27, 16 except (jt=lb) 23=117.
 - This truss 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 sheathing be applied directly to the bottom chord.



June 22, 2020
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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.

Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748578
2379052	A4	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.240 s Mar 9 2020
MiTek Industries, Inc.
Mon Jun 22 13:14:05 2020
Page 2
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Lw8Mwpy3V6AFIPtZ2Mzr0fh10qdbFhq?2XAZF2z3jSG

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

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek

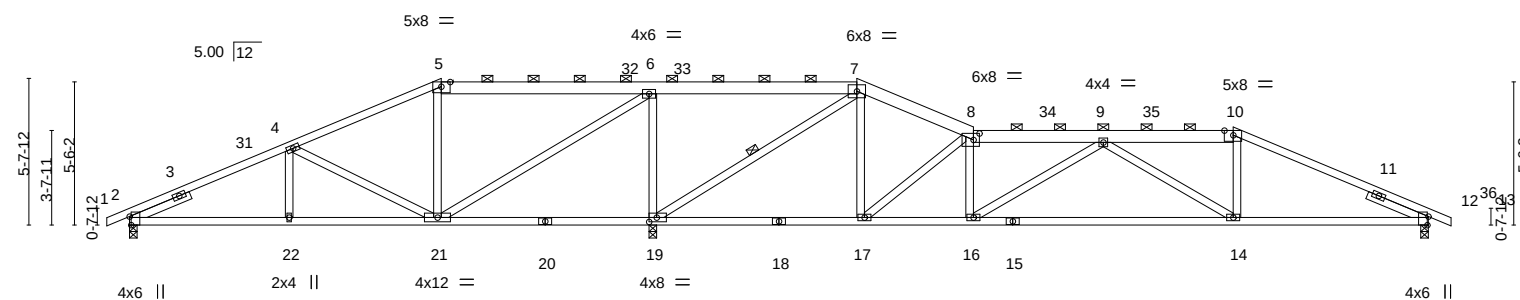
07/21/2020

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Chesterfield, MO 63017

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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:07 2020 Page 1
 ID:ggMhuYyvkTSSnSqRk_pqYByzxhju-IJG6LU_J1Qz?j0yAn0J64nldudajcalWrfgkwwz3jSE
 -0-10-8 6-1-12 12-0-0 20-0-0 20-1-12 28-0-0 32-5-14 37-5-14 42-5-14 50-0-0 50-10-8
 0-10-8 6-1-12 5-10-4 8-0-0 0-1-12 7-10-4 4-5-14 5-0-0 5-0-0 7-6-2 0-10-8
 Scale = 1:88.7



	6-1-12	12-0-0	20-1-12	28-0-0	32-5-14	42-5-14	50-0-0
	6-1-12	5-10-4	8-1-12	7-10-4	4-5-14	10-0-0	7-6-2
Plate Offsets (X,Y)--	[2:0-3-15,Edge]	[5:0-4-2,Edge]	[8:0-2-12,0-3-0]	[10:0-4-2,Edge]	[12:0-3-15,Edge]	[19:0-3-8,0-2-0]	

[illegible]

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2 *Except* 1-5,10-13: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-6-13 max.): 5-7, 8-10.
BOT CHORD	2x4 SPF No.2 *Except* 15-18,18-20: 2x4 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 7-19
SLIDER	Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0		

REACTIONS. (size) 2=0-3-8, 19=0-3-8, 12=0-3-8
 Max Horiz 2=50(LC 12)
 Max Uplift 2=-60(LC 12), 19=-82(LC 9), 12=-74(LC 13)
 Max Grav 2=714(LC 40), 19=2956(LC 2), 12=1140(LC 62)

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

TOP CHORD 2-4=-920/118, 4-5=-381/352, 5-6=-295/297, 6-7=0/1522, 7-8=-519/107, 8-9=-1577/145,
9-10=-1703/148, 10-12=-1848/136

BOT CHORD 2-22=-104/849, 21-22=-104/849, 19-21=-1520/68, 17-19=0/404, 16-17=-60/1593,
14-16=-113/1961, 12-14=-62/1713

WEBS 4-21=-785/80, 5-21=-466/54, 6-21=9/1713, 6-19=-1546/129, 7-19=-2208/59,
7-17=-26/964, 8-17=-1462/98, 8-16=0/482, 9-16=-561/61, 9-14=-441/76, 10-14=0/405

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=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 3x6 MT20 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, 19, 12.
- 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.



June 22, 2020
RELEASE FOR CONSTRUCTION

 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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IS NOTED ON FEARS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	A6	Roof Special	1	1	I41748580

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:10 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-iuxE_W0BKeoYsAlXrwZ0jPsXrIjwyNlCotKxFz3jSB

0-10-8 7-1-12 14-0-0 20-0-0 20-1-12 26-0-0 30-1-12 34-3-7 39-3-7 44-3-7 50-0-0 50-10-8
0-10-8 7-1-12 6-10-4 6-0-0 0-1-12 5-10-4 4-1-12 4-1-12 5-0-0 5-0-0 5-8-9 0-10-8

Scale = 1:90.2

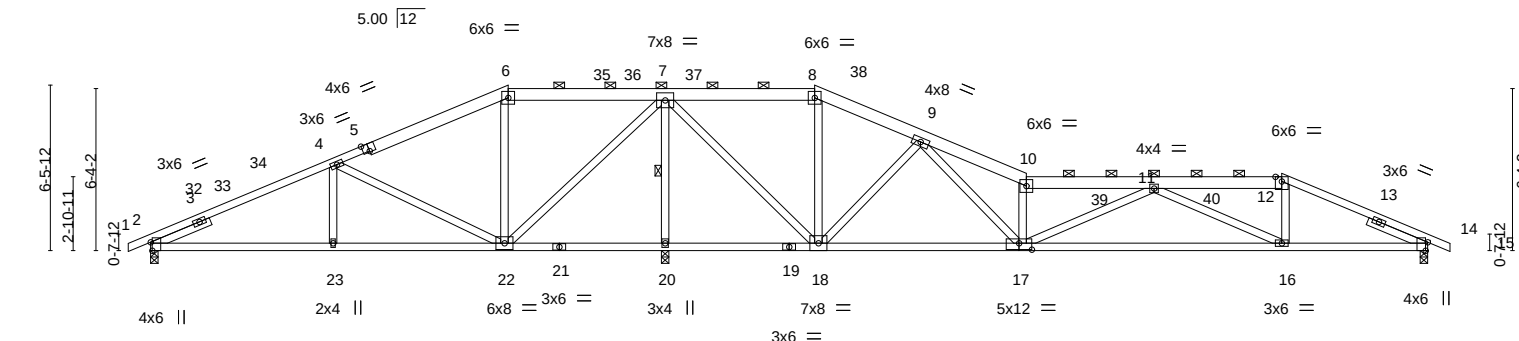


Plate Offsets (X,Y)--	2-0-3-15,Edge	5-0-3-0,Edge	14-0-3-15,Edge	17-0-6-0-0-3-0
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LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) -0.28 16-17 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.98	Vert(CT) -0.61 16-17 >586 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 235 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except* 12-15,1-5: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-4-2 max.): 6-8, 10-12.
BOT CHORD 2x4 SPF No.2 *Except* 17-19,19-21: 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 7-20
SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0	

REACTIONS.	(size) 2=0-3-8, 20=0-3-8, 14=0-3-8 Max Horz 2=-57(LC 13) Max Uplift 2=-72(LC 12), 20=-58(LC 9), 14=-70(LC 13) Max Grav 2=668(LC 61), 20=3173(LC 2), 14=1050(LC 62)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-790/468, 4-6=-83/887, 6-7=0/795, 7-8=0/416, 8-9=0/473, 9-10=-1840/180, 10-11=-1757/148, 11-12=-1606/126, 12-14=-1802/118
BOT CHORD	2-23=-395/719, 22-23=-395/719, 20-22=-1788/118, 18-20=-1788/118, 17-18=-10/451, 16-17=-146/2139, 14-16=-59/1624
WEBS	4-23=0/298, 4-22=-1006/86, 6-22=-638/48, 7-22=-2/1656, 7-20=-3027/108, 7-18=-66/1977, 8-18=-443/27, 9-18=-1153/120, 9-17=-91/1804, 10-17=-972/124, 11-17=-607/76, 11-16=-642/95, 12-16=0/435

- 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, 20, 14.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



June 22 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

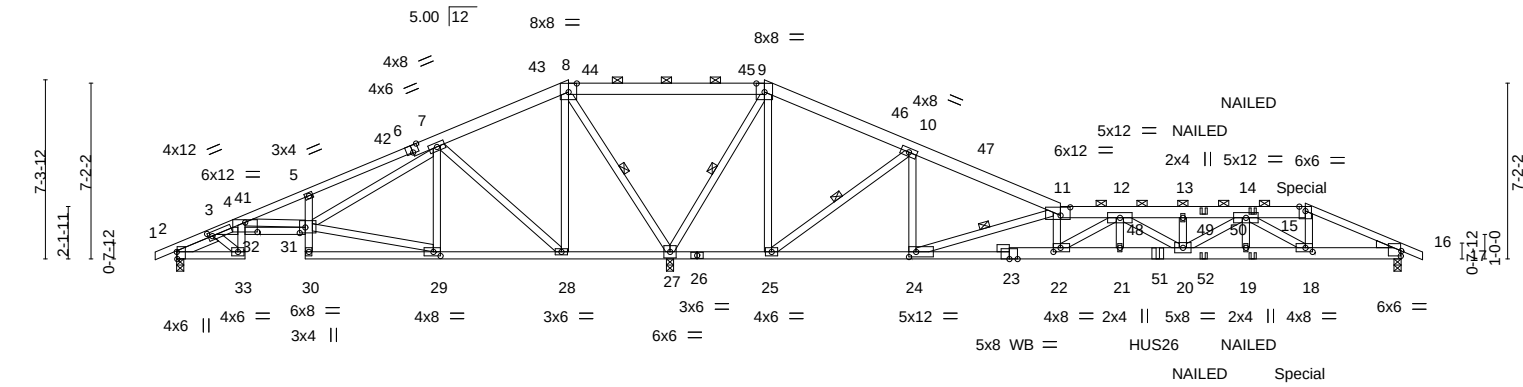
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	A7	ROOF SPECIAL	1	1	I41748581

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:14 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-afBlpu3iNtZLo3l4leyuZZVjSgAsmJK7QrY40z3jS7
0-10-8 2-9-8 5-3-0 10-7-8 16-0-0 24-0-0 30-0-8 36-1-1 38-6-3 41-1-1 43-7-15 46-1-1 50-0-0 50-10-8
0-10-8 2-9-8 2-5-8 5-4-8 5-4-8 8-0-0 6-0-8 6-0-8 2-5-2 2-6-14 2-6-14 2-5-2 3-10-15 0-10-8

Scale = 1:94.1



Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	A7	ROOF SPECIAL	1	1	I41748581
Job Reference (optional)					

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.240 s Mar 9 2020 MiTek Industries, Inc.
Mon Jun 22 13:14:14 2020
Page 2
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-afBlpu3iNtlzLo3l4leyuZZVjSgAsmJK7QrY40z3jS7

- NOTES-**
- 6) Provide adequate drainage to prevent water ponding.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) **WARNING:** Required bearing size at joint(s) 27 greater than input bearing size.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 16 except (jt=lb) 2=751.
 - 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 40-0-12 from the left end to connect truss(es) to front face of bottom chord.
 - 13) Fill all nail holes where hanger is in contact with lumber.
 - 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 224 lb down and 94 lb up at 46-1-1 on top chord, and 129 lb down at 45-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-8=-51, 8-9=-61, 9-11=-51, 11-15=-61, 15-17=-51, 33-34=-20, 31-32=-20, 30-38=-20

Concentrated Loads (lb)

Vert: 15=-154(F) 18=-129(F) 19=-57(F) 14=-67(F) 49=-67(F) 51=-1301(F) 52=-57(F)

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

16023 Swingley Ridge Rd
Chesterfield, MO 63017

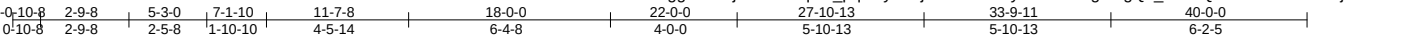
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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748582
2379052	A8	Hip	1	1		

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:16 2020 Page 1

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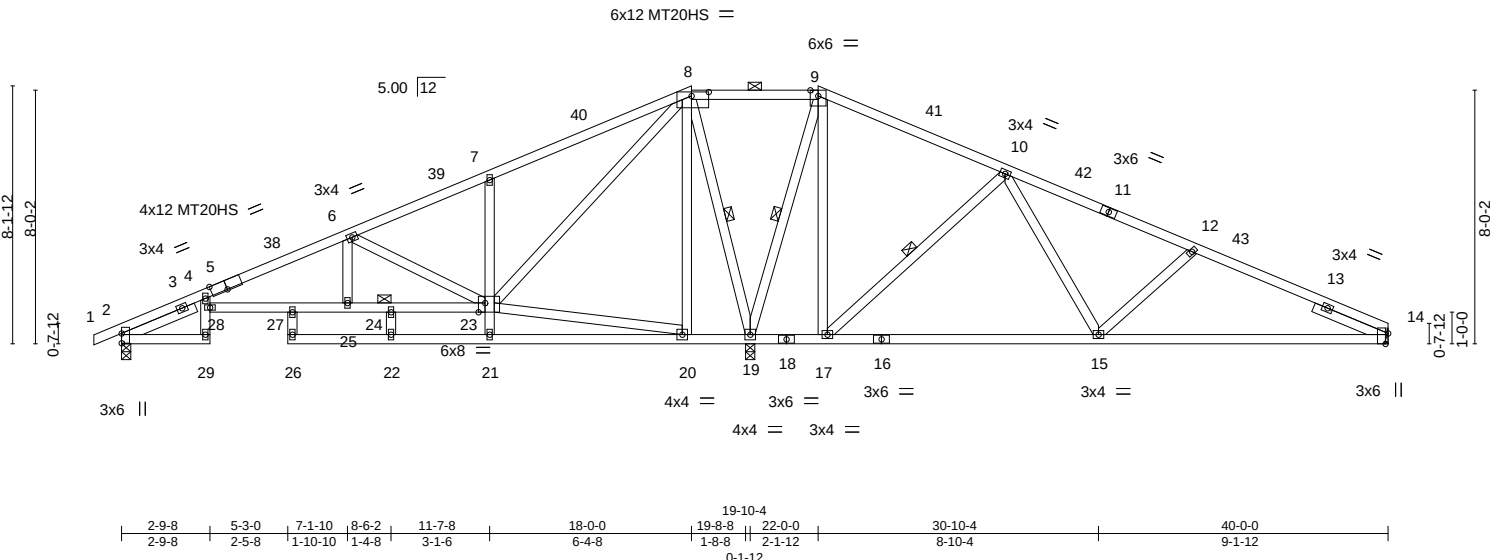


Plate Offsets (X,Y)-- [5:0-6-0,Edge], [8:0-6-8,0-1-8], [14:0-3-15,Edge], [23:0-2-8,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	25.0	2-0-0		TC	0.78	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15	BC	0.52	Vert(LL)	-0.26 29 >913	240	197/144
TCDL	10.0	Lumber DOL	1.15	WB	0.89	Vert(CT)	-0.43 29 >550	180	148/108
BCLL	0.0	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.17 19 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014							
				Weight: 202 lb		FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except
BOT CHORD	2x4 SPF No.2 *Except*		2-0-0 oc purlins (10-0-0 max.): 8-9.
	18-26: 2x4 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 10-17, 9-19, 8-19
SLIDER	Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0	JOINTS	1 Brace at Jt(s): 24

REACTIONS. (size) 2=0-3-8, 14=Mechanical, 19=0-3-8
Max Horz 2=77(LC 12)
Max Uplift 2=-8(LC 8), 14=-180(LC 50), 19=-106(LC 12)
Max Grav 2=359(LC 50), 14=592(LC 51), 19=3129(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-439/58, 6-7=-88/784, 7-8=-25/791, 8-9=-64/1648, 9-10=-107/1395,
10-12=-528/836, 12-14=-794/703
BOT CHORD 19-20=-1284/161, 17-19=-1235/188, 15-17=-947/180, 14-15=-604/733
WEBS 7-23=-483/102, 20-23=-1283/154, 8-20=0/321, 9-17=-8/753, 10-17=-976/109,
10-15=0/613, 12-15=-485/94, 8-23=-91/1010, 6-23=-754/82, 9-19=-1566/0,
8-19=-1572/97

- 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=20.4 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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 except (jt=lb) 14=180, 19=106.
 - This truss 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.



June 22 2020
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW

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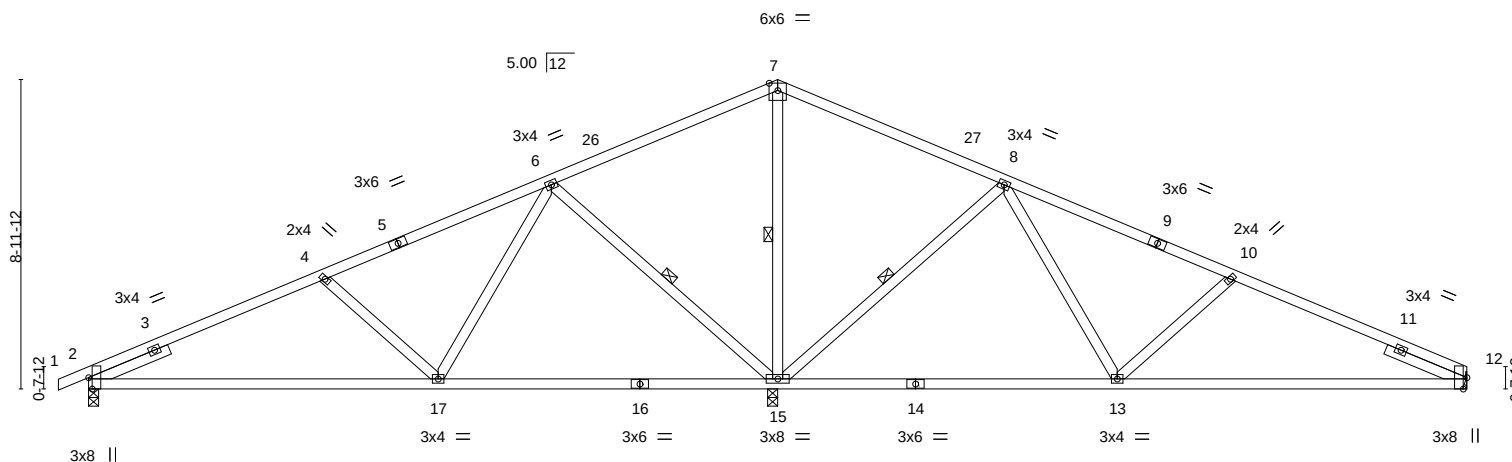
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI
MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2379052	Truss A9	Truss Type Common	Qty 1	Ply 1	Summit/63 Hawthorn Ridge I41748583
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:18 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-TQQGf6DR6pPpPM3Jbiu2PkGX347ojEw22plDoz3jS3

0-10-8	6-10-5	13-5-3	20-0-0	26-6-13	33-1-11	40-0-0
0-10-8	6-10-5	6-6-13	6-6-13	6-6-13	6-6-13	6-10-5

Scale = 1:66.9



10-1-12	19-8-8	20-0-0	29-10-4	40-0-0
10-1-12	9-6-12	0-3-8	9-10-4	10-1-12

Plate Offsets (X,Y)-- [2:0-3-15,Edge], [12:0-3-15,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.68	Vert(LL) -0.15 13-24 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.34	Vert(CT) -0.32 13-24 >751 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 15 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 159 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
14-16: 2x4 SP 2400F 2.0E
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.
WEBS 1 Row at midpt 7-15, 8-15, 6-15

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 12=Mechanical
Max Horz 2=86(LC 14)
Max Uplift 2=36(LC 12), 15=35(LC 12), 12=41(LC 13)
Max Grav 2=791(LC 30), 15=2288(LC 2), 12=730(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1043/76, 4-6=-751/60, 6-7=0/650, 7-8=0/650, 8-10=-759/89, 10-12=-1054/105
BOT CHORD 2-17=-96/963, 15-17=-87/319, 13-15=-90/324, 12-13=-44/973
WEBS 7-15=-869/31, 8-15=-922/128, 8-13=0/622, 10-13=-496/112, 6-15=-920/128, 6-17=0/617, 4-17=-492/113

- 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=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) 2, 15, 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.
 - 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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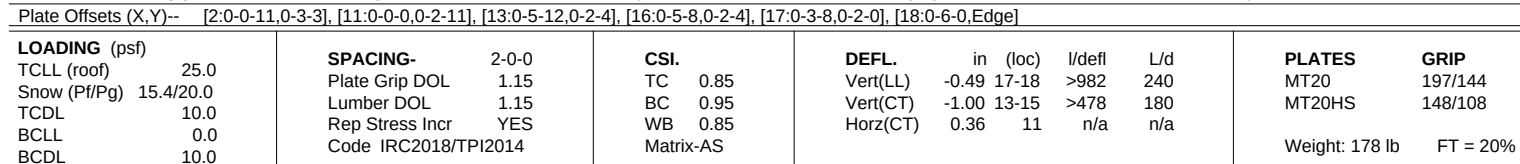
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:36 2020 Page 1
 ID:ggMHuYjvKTSNSqRk_pqYByzXhju-iLuOructKCWMny9_sny2LY__O7g8ycwkOWeXkd23[Sj
 -0-10-8 4-3-8 12-1-12 20-0-0 26-6-13 33-1-11 40-0-0 40-10-8
 0-10-8 4-3-8 7-10-4 7-10-4 6-6-13 6-6-13 6-10-5 0-10-8
 Scale = 1:69.1



REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=-82(LC 15)
 Max Uplift 2=-54(LC 12), 11=-54(LC 13)
 Max Grav 2=1860(LC 2), 11=1860(LC 2)

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

TOP CHORD	2-3=-6388/218, 3-5=-3954/109, 5-6=-2680/87, 6-7=-2644/100, 7-9=-3297/100, 9-11=-3554/114
BOT CHORD	2-18=-250/5883, 17-18=-245/5686, 16-17=-73/3597, 11-13=-46/3209
WEBS	6-16=0/1509, 3-18=0/1014, 3-17=-2114/173, 5-17=0/617, 5-16=-1413/126, 13-16=0/2810, 7-16=-749/126, 7-13=0/347, 9-13=-357/173

- NOTES-**

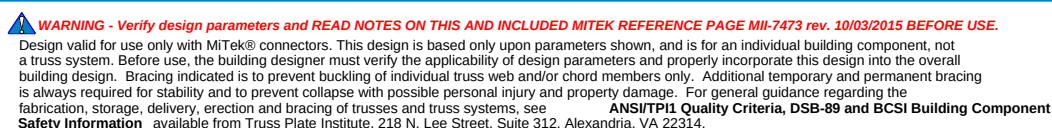
 - 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=6.0psf; BCDL=4.2psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TLL: 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
 - 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) All plates are MT20 plates unless otherwise indicated.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) 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.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
 - 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.



June 22, 2020
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AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017



Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	A11	Roof Special	2	1	I41748585

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:13:37 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-AYSm2EcV5VeDO6kBPuTHumX8SX0lh6XucAO4Ggz3jSi

Job Reference (optional)

0-10-8 4-3-8 12-3-8 20-0-0 22-3-8 28-0-8 33-9-8 35-8-8 40-0-0 40-10-8
0-10-8 4-3-8 8-0-0 7-8-8 2-3-8 5-9-0 5-9-0 1-11-0 4-3-8 0-10-8

Scale = 1:73.5

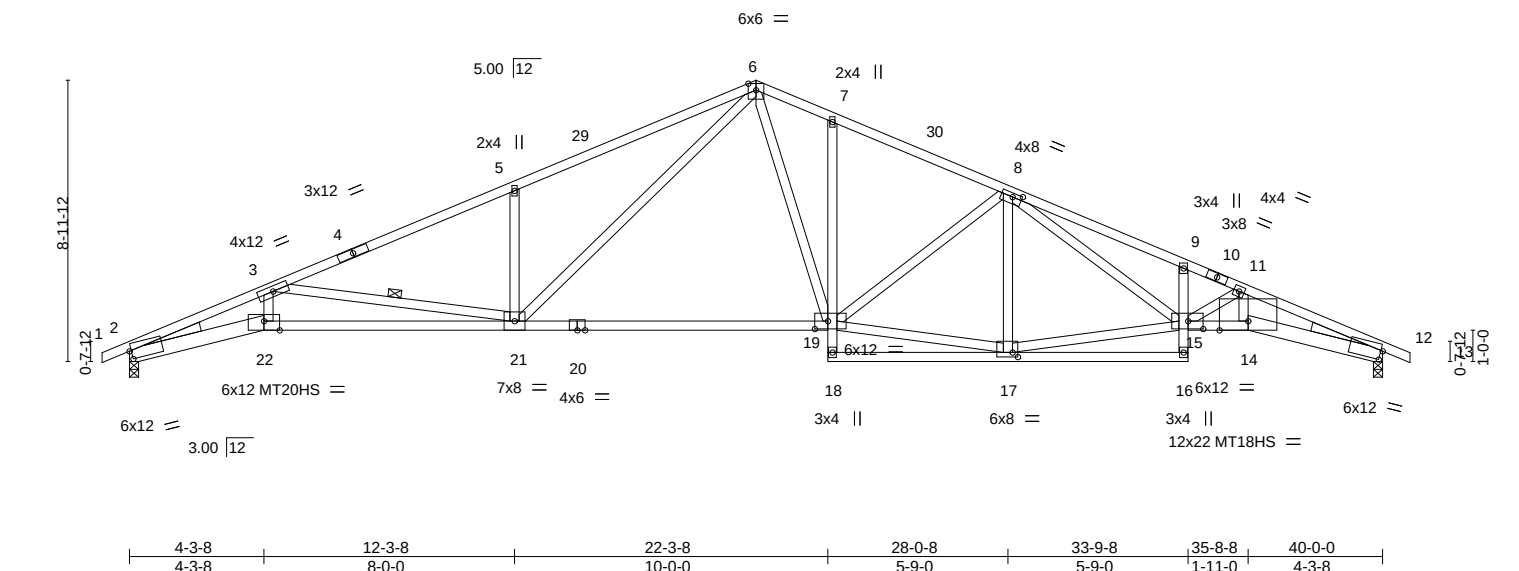


Plate Offsets (X,Y)--		[2:0-0-11,0-3-3], [8:0-3-10,0-1-8], [12:0-0-11,0-3-7], [15:0-5-12,0-3-0], [17:0-2-0,0-1-12], [19:0-5-0,0-3-0], [22:0-6-0,Edge]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	25.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.90
		BC	0.95
		WB	0.70
		Matrix-AS	
		DEFL.	
		Vert(LL)	-0.55 21-22 >869 240
		Vert(CT)	-1.10 19-21 >438 180
		Horz(CT)	0.47 12 n/a n/a
		PLATES	
		MT20	197/144
		MT20HS	148/108
		MT18HS	197/144
		Weight: 197 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E *Except*
6-10: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-22,12-14: 2x6 SPF 2100F 1.8E, 20-22,14-15: 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-21

REACTIONS.

(size) 2=0-3-8, 12=0-3-8
Max Horz 2=-82(LC 13)
Max Uplift 2=-54(LC 12), 12=-54(LC 13)
Max Grav 2=1861(LC 2), 12=1861(LC 2)

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

TOP CHORD 2-3=-6399/221, 3-5=-3932/101, 5-6=-3975/193, 6-7=-2914/110, 7-8=-2981/76,
8-9=-5064/182, 9-11=-5189/123, 11-12=-6009/134
BOT CHORD 2-22=-254/5894, 21-22=-248/5698, 19-21=0/2353, 7-19=-280/67, 16-17=0/491,
9-15=-350/70, 14-15=-82/5348, 12-14=-86/5499
WEBS 3-22=0/1011, 6-19=-64/1104, 17-19=0/2852, 8-19=-381/102, 8-17=-833/40,
15-17=0/2429, 8-15=-99/2210, 11-15=-598/41, 11-14=0/737, 3-21=-2147/185,
5-21=-640/154, 6-21=-137/1714

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, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.
- 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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AS NOTED ON PLANS REVIEW

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LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

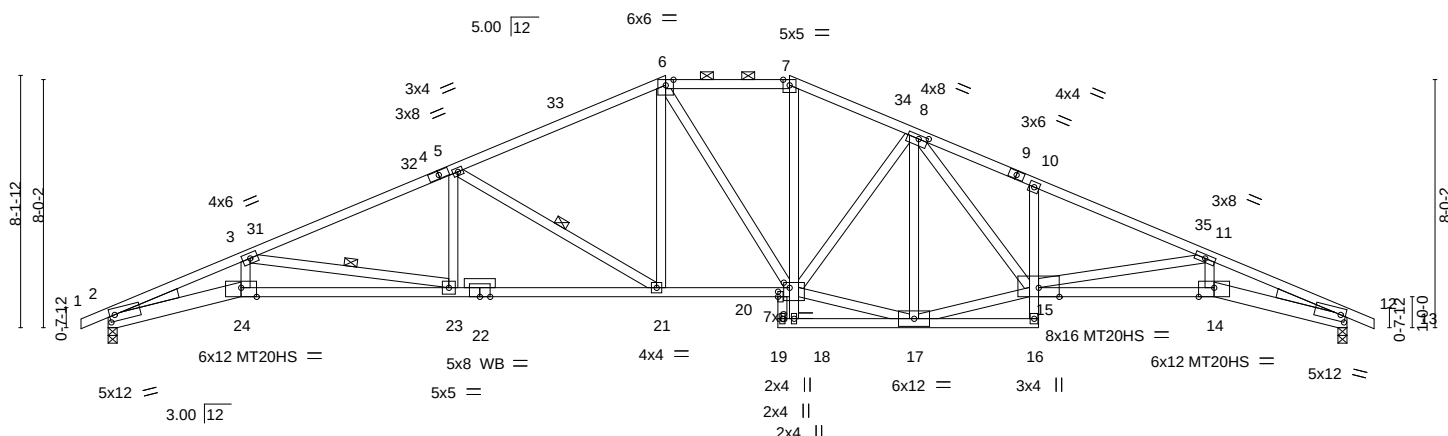
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-0-10-8	4-3-8	11-1-12	18-0-0	21-7-8	22-0-0	26-0-4	30-0-8	35-8-8	40-0-0	40-10-8
0-10-8	4-3-8	6-10-4	6-10-4	3-7-8	0-4-8	4-0-4	4-0-4	5-8-0	4-3-8	0-10-8

Scale = 1:74.4



4-3-8	11-1-12	18-0-0	21-7-8	22-0-0	26-0-4	30-0-8	35-8-8	40-0-0
4-3-8	6-10-4	6-10-4	3-7-8	0-4-8	4-0-4	4-0-4	5-8-0	4-3-8

Plate Offsets (X,Y)-- [2:0-1-15.0-2-8], [8:0-3-10.0-1-8], [12:0-1-15.0-2-8], [14:0-6-0,Edge], [20:0-2-0,0-0-0], [20:0-2-4,0-2-0], [24:0-6-0,Edge]													
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.50	20-21	I/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.89	23-24	>968	240	MT20HS	148/108	
TCDL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.49	12	n/a	n/a			
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS									
BCDL	10.0												
											Weight: 212 lb	FT = 20%	

LUMBER-

TOP CHORD	2x4 SPF No.2 *Except* 1-4,9-13: 2x4 SP 2400F 2.0E
BOT CHORD	2x4 SPF No.2 *Except* 2-24,12-14: 2x6 SPF 2100F 1.8E, 22-24,14-15: 2x4 SP 2400F 2.0E
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-3-13 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 3-23, 5-21

REACTIONS.

(size) 2=0-3-8, 12=0-3-8
 Max Horz 2=-73(LC 13)
 Max Uplift 2=-44(LC 12), 12=-44(LC 13)
 Max Grav 2=1865(LC 2), 12=1865(LC 2)

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

TOP CHORD	2-3=-6514/166, 3-5=-4321/83, 5-6=-3080/58, 6-7=-2705/61, 7-8=-2976/54, 8-10=-4407/115, 10-11=-4497/67, 11-12=-6461/101
BOT CHORD	2-24=-192/6003, 23-24=-1885/5799, 21-23=-48/3939, 20-21=0/2719, 10-15=-451/87, 14-15=-58/5747, 12-14=-57/5948
WEBS	3-24=0/1035, 3-23=-1897/142, 5-23=0/554, 5-21=-1398/116, 6-21=-9/815, 6-20=-266/236, 11-15=-1685/94, 11-14=0/1013, 7-20=-5/890, 8-17=-1275/0, 15-17=0/2690, 8-15=0/6037, 17-20=0/2818

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) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and conforms to standard ANSI/TPI 1.



June 22, 2020

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CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017



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.

Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748586
2379052	A12	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.240 s Mar 9 2020
MiTek Industries, Inc.
Mon Jun 22 13:13:40 2020
Page 2
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-a77vhFfNOQ0oFZSm5c1_WO9gkl22uNxKJ8ckt?z3jSf

- NOTES-**
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI



07/21/2020

16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

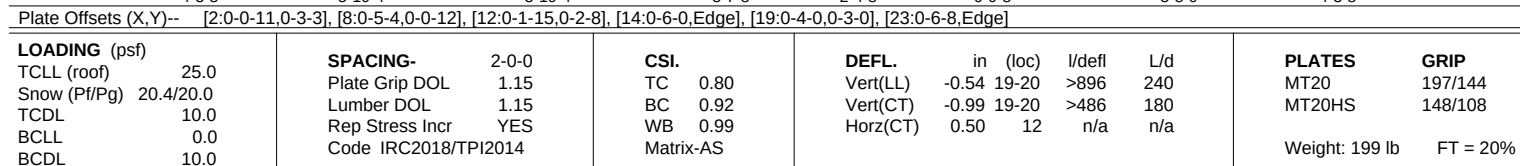
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:13:43 2020 Page 1

ID:ggMHuYjvKTSNSqRk_pqYByzXhju~?hp1JHhGgLON61BLmlah71nCWy3A5kSm?6rPUJz3JSc

0-10-8 4-3-8 10-1-12 16-0-0 21-7-8 24-0-0 30-0-8 35-8-8 40-0-0 40-10-8
0-10-8 4-3-8 5-10-4 5-10-4 5-7-8 2-4-8 6-0-8 5-8-0 4-3-8 0-10-8

Scale = 1:72.3



REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=-65(LC 15)
 Max Uplift 2=-36(LC 12), 12=-36(LC 13)
 Max Grav 2=1861(LC 2), 12=1861(LC 2)

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

TOP CHORD 2-3=-6280/127, 3-5=-4275/63, 5-6=-3270/69, 6-7=-3057/83, 7-8=-3029/82,
8-9=-4220/117, 9-11=-4281/46, 11-12=-6279/70

BOT CHORD 2-23=-147/5772, 22-23=-143/5584, 20-22=-28/3913, 19-20=0/2935, 7-19=-469/63,
9-15=-511/112, 14-15=-29/5581, 12-14=-28/5770

WEBS 3-23=0/958, 3-22=-1753/117, 5-22=0/556, 5-20=-1270/102, 6-20=-3/786, 6-19=-88/405,
17-19=0/2625, 8-19=-1/1487, 8-17=-1391/9, 15-17=0/2331, 8-15=-91/1992,
11-15=-1741/83, 11-14=0/976

- 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) TLL: 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) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TP1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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/TP1 1.

Continued on page 2



June 22, 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017



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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	A13	Hip	1	1	I41748587
Job Reference (optional)					

- NOTES-**
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI



07/21/2020

16023 Swingley Ridge Rd
Chesterfield, MO 63017

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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748588
2379052	A14	Hip	1	1		

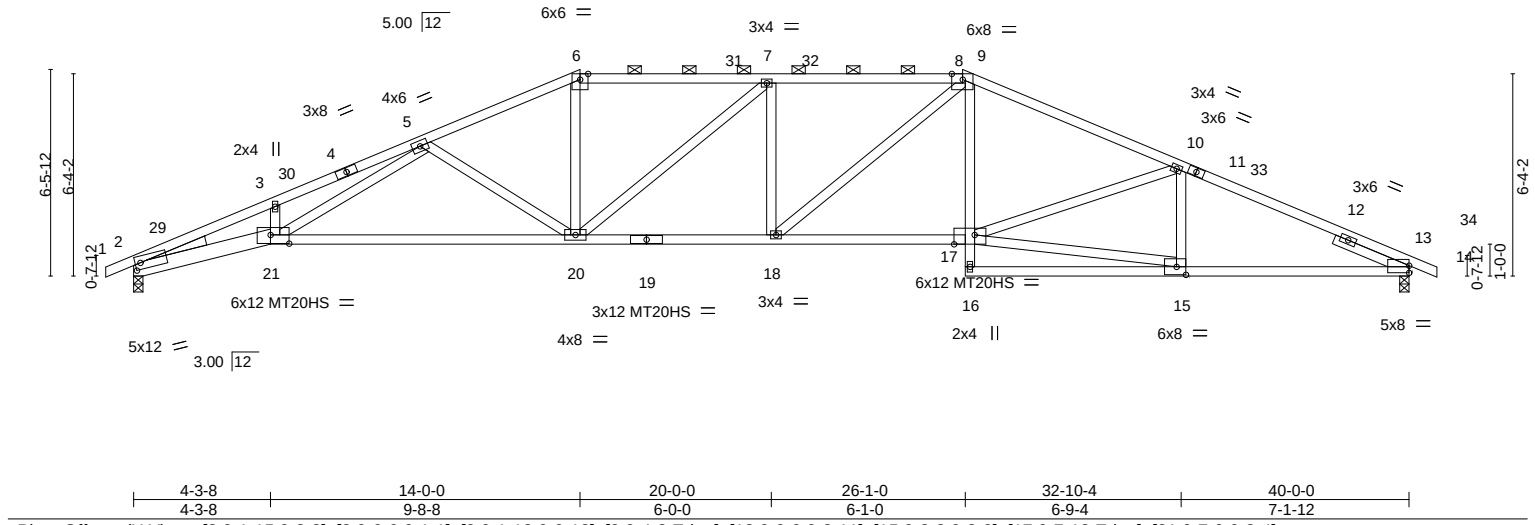
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:13:45 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-x4xokzjWCze5MKLjtAd9DSSxmdkzZhJ3SPKVYcz3jSa

-0-10-8	4-3-8	9-1-12	14-0-0	20-0-0	26-0-0	32-10-4	40-0-0	40-10-8
0-10-8	4-3-8	4-10-4	4-10-4	6-0-0	6-0-0	6-10-4	7-1-12	0-10-8

Scale = 1:72.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.88	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.97	Vert(LL) -0.53 20-21 >904 240	MT20HS	148/108
TCDL 10.0	Lumber DOL 1.15	WB 0.78	Vert(CT) -1.14 20-21 >423 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.40 13 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 172 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except* 6-8: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-7-1 max.): 6-8.
BOT CHORD 2x4 SPF 1650F 1.5E *Except* 2-21: 2x6 SPF 2100F 1.8E, 17-19: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	
WEDGE Left: 2x4 SP No.3	
SLIDER Right 2x4 SPF No.2 2-6-0	

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=58(LC 14)
Max Uplift 2=-26(LC 12), 13=-26(LC 13)
Max Grav 2=1861(LC 2), 13=1861(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6383/46, 3-5=-6273/108, 5-6=-3607/90, 6-7=-3253/93, 7-8=-3609/122,
8-9=-3286/113, 9-10=-3578/101, 10-13=-3562/55
BOT CHORD 2-21=-63/5865, 20-21=-21/4047, 18-20=-8/3607, 17-18=0/3249, 13-15=-2/3216
WEBS 9-17=0/654, 5-21=-58/2130, 5-20=-1032/117, 6-20=0/1002, 7-20=-659/40, 7-18=-344/68,
15-17=-1/3163, 10-17=-231/302, 10-15=-378/62, 8-18=-25/684

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



June 22 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748588
2379052	A14	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Valley Center),
Valley Center, KS - 67147,
8.240 s Mar 9 2020
MiTek Industries, Inc.
Mon Jun 22 13:13:45 2020
Page 2
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-x4xokzjWCze5MKLjtAd9DSsXdmkzZhJ3SPKVYCz3jSa

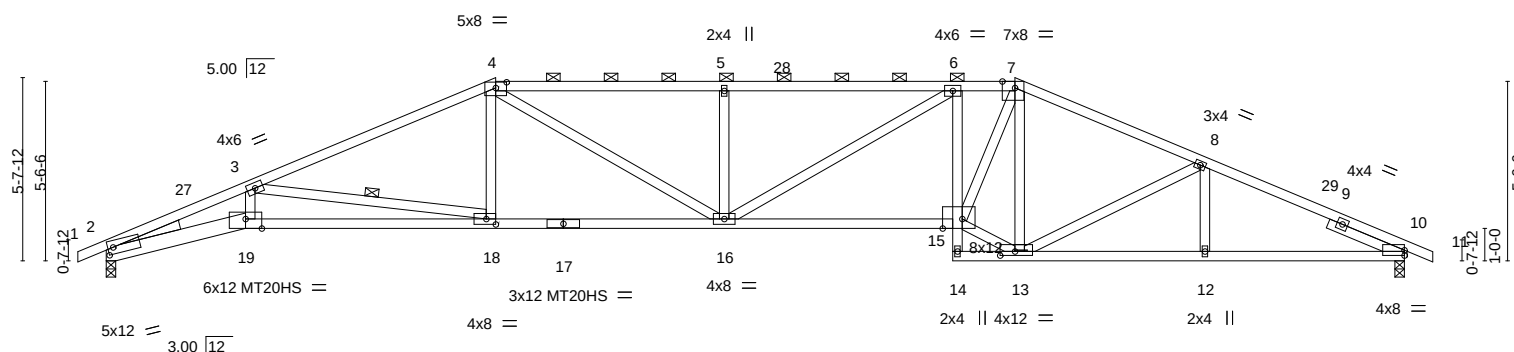
NOTES-
 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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LEE'S SUMMIT, MISSOURI
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Scale = 1:71.0[illegible]

LUMBER-		BRACING-	
TOP CHORD	2x4 SP 2400F 2.0E *Except* 4-7: 2x4 SPF 1650F 1.5E	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-2-0 max.): 4-7.
BOT CHORD	2x4 SPF 1650F 1.5E *Except* 2-19: 2x6 SPF 2100F 1.8E, 17-19: 2x4 SP 2400F 2.0E 6-14: 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 3-18
WEDGE			
Left: 2x4 SP No.3			
SLIDER	Right 2x4 SPF No.2 2-6-0		

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=50(LC 14)
 Max Uplift 2=-37(LC 8), 10=-37(LC 9)
 Max Grav 2=1861(LC 2), 10=1861(LC 2)

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

TOP CHORD 2-3=-6412/97, 3-4=-4001/120, 4-5=-4313/169, 5-6=-4311/168, 6-7=-3878/145,
7-8=-3194/119, 8-10=-3557/83

BOT CHORD 2-19=-61/5904, 18-19=-64/5700, 16-18=-25/3626, 15-16=-50/3942, 6-15=-748/88,
12-13=-33/3213, 10-12=-33/3213

WEBS 3-19=0/1034, 3-18=-2190/154, 4-18=0/564, 4-16=-53/1010, 5-16=-662/103,
6-16=-28/610, 13-15=0/3199, 7-15=-63/2415, 7-13=-1264/33, 8-13=-519/90

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=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) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continue on standard ANSI/TPI 1.



June 22, 2020
RELEASE FOR CONSTRUCTION

NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748589
2379052	A15	Hip	1	1	Job Reference (optional)	

- NOTES-**
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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LEE'S SUMMIT, MISSOURI



07/21/2020

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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748590
2379052	A16	Hip	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:13:49 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-prAIZKm0GB9WryeU6?h5NI1BGN5IVTmfN1ljhzz3jSW

0-10-8 4-3-8 10-0-0 14-11-2 15-4-5 20-0-0 20-8-11 25-0-14 26-1-0 28-10-8 30-0-0 33-9-0 37-2-8 40-0-0 40-10-8
0-10-8 4-3-8 5-8-8 4-11-2 0-5-3 4-7-11 0-8-11 4-4-3 1-0-2 2-9-8 1-1-8 3-9-0 3-5-8 2-9-8 0-10-8

Scale = 1:71.8

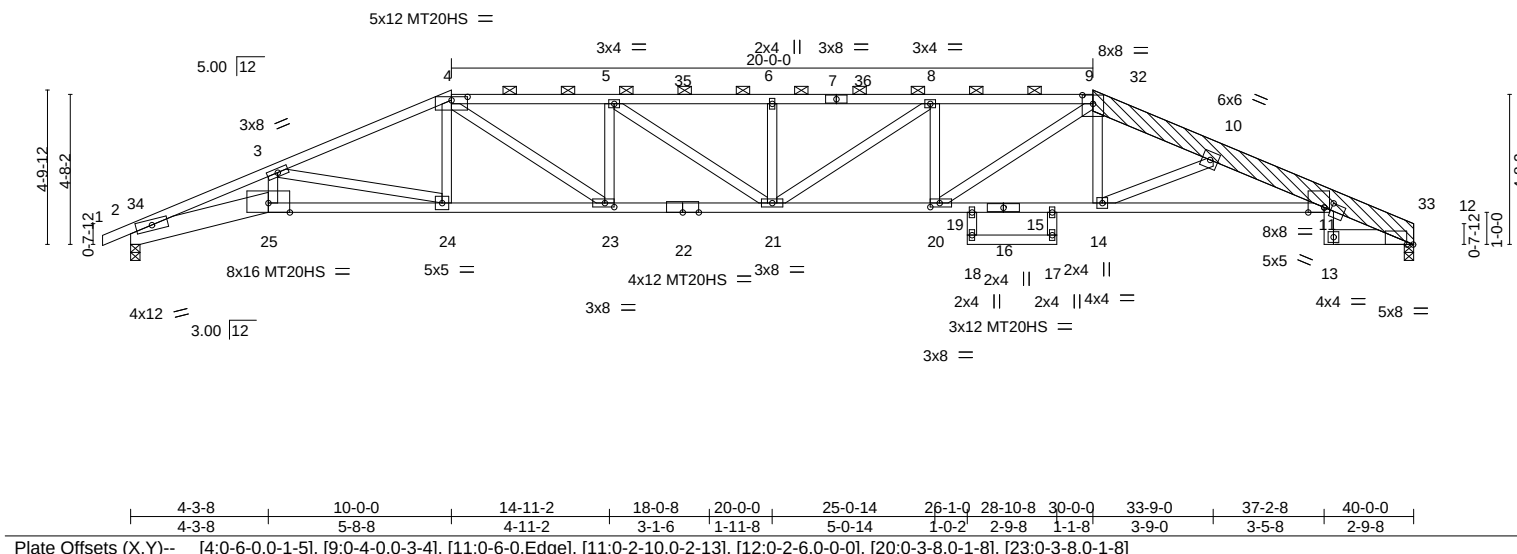


Plate Offsets (X, Y)--		[4:0-6-0,0-1-5], [9:0-4-0,0-3-4], [11:0-6-0,Edge], [11:0-2-10,0-2-13], [12:0-2-6,0-0-0], [20:0-3-8,0-1-8], [23:0-3-8,0-1-8]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	25.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.97
		BC	0.98
		WB	0.94
		Matrix-AS	
		DEFL.	
		in (loc)	l/defl
		Vert(LL)	-0.68 21 >701 240
		Vert(CT)	-1.24 20-21 >388 180
		Horz(CT)	0.55 12 n/a n/a
		PLATES	GRIP
		MT20	197/144
		MT20HS	148/108
		Weight: 226 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
9-12: 2x8 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
2-25: 2x8 SP 2400F 2.0E, 22-25: 2x4 SP 2400F 2.0E
11-16,16-22: 2x4 SPF 1650F 1.5E, 12-13: 2x6 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x8 SP 2400F 2.0E
LBR SCAB 9-12 2x8 SP 2400F 2.0E one side

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 12=0-3-8
Max Horz 2=45(LC 14)
Max Uplift 2=-50(LC 8), 12=-36(LC 8)
Max Grav 2=1861(LC 2), 12=1798(LC 2)

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

TOP CHORD 2-3=-6406/155, 3-4=-4375/158, 4-5=-4999/217, 5-6=-5392/234, 6-8=-5392/234,
8-9=-4997/217, 9-10=-4352/156, 10-11=-5285/164, 11-12=-895/37
BOT CHORD 2-25=-116/5935, 24-25=-116/5737, 23-24=-78/3989, 21-23=-138/4997, 20-21=-138/4997,
19-20=-77/4032, 15-19=-79/3969, 14-15=-77/4032, 11-14=-114/5184, 11-13=-3/457
WEBS 3-25=0/981, 3-24=-1766/97, 4-24=0/568, 9-14=0/508, 6-21=-425/68, 5-21=-23/530,
5-23=-756/85, 4-23=-75/1450, 8-21=-22/537, 8-20=-698/82, 9-20=-75/1368,
10-14=-1241/69

NOTES-

- Attached 11-1-0 scab 9 to 12, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 3-2-4 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 6-11-10 from end at joint 9, nail 2 row(s) at 3" o.c. for 3-10-2.
- 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) 2, 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

Continued on page 2



June 22 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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.

Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748590
2379052	A16	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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MiTek

07/21/2020

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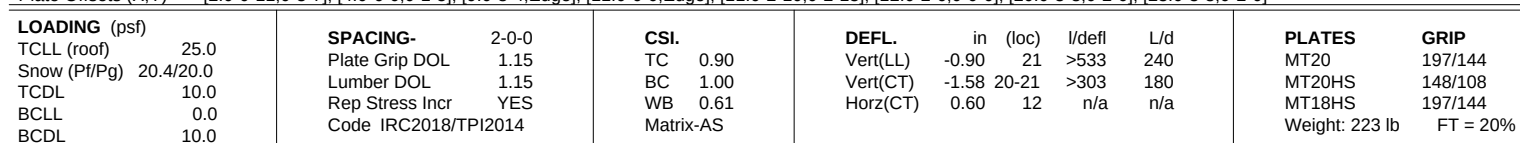
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:52:20 2020 Page 1

Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:ggMHuYjvKTSNSqRK_pgYByzXhju-EQsRRCMvZ6X5iPN3o8Fo?wfjha78ive53?WNNilz3jST

0-10-8 4-3-8 8-0-0 14-0-5 20-0-11 25-3-4 26-1-0 28-10-8 32-0-0 34-6-15 37-2-8 40-0-0 40-10-8

0-10-8 4-3-8 3-8-8 6-0-5 6-0-5 5-2-9 0-9-12 2-9-8 3-1-8 2-6-15 2-7-9 2-9-8 0-10-8

Scale = 1:71.8



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

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

TOP CHORD
2-3=-6114/200, 3-4=-4892/199, 4-5=-6829/308, 5-6=-7536/339, 6-8=-7536/339,
8-9=-6972/315, 9-10=-4819/200, 10-11=-5342/196, 11-12=-895/44

BOT CHORD
2-25=-159/5606, 24-25=-155/5442, 23-24=-130/4541, 21-23=-244/6826, 20-21=-252/6972,
19-20=-134/4673, 15-19=-142/4559, 14-15=-134/4673, 11-14=-153/5259, 11-13=-7/457

WEBS
3-25=0/809, 3-24=-968/73, 4-24=0/583, 4-23=-127/2490, 5-23=-896/104, 5-21=-37/776,
6-21=-448/70, 9-14=0/287, 8-20=-782/97, 8-21=-27/634, 9-20=-127/2459,
10-14=-777/48

NOTES:-

- 1) Attached 8-11-0 scab 9 to 12, front face(s) 2x8 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-3 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 4-9-10 from end at joint 9, nail 2 row(s) at 3" o.c. for 3-10-2.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) 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
- 4) TCDL: 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.
- 5) Unbalanced snow loads have been considered for this design.
- 6) 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.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



June 22, 2020
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CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
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Chesterfield, MO 63017

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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748591
2379052	A17	Hip	1	1	Job Reference (optional)	

- NOTES-**
- 10) Bearing at joint(s) 2, 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.
 - 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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CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI



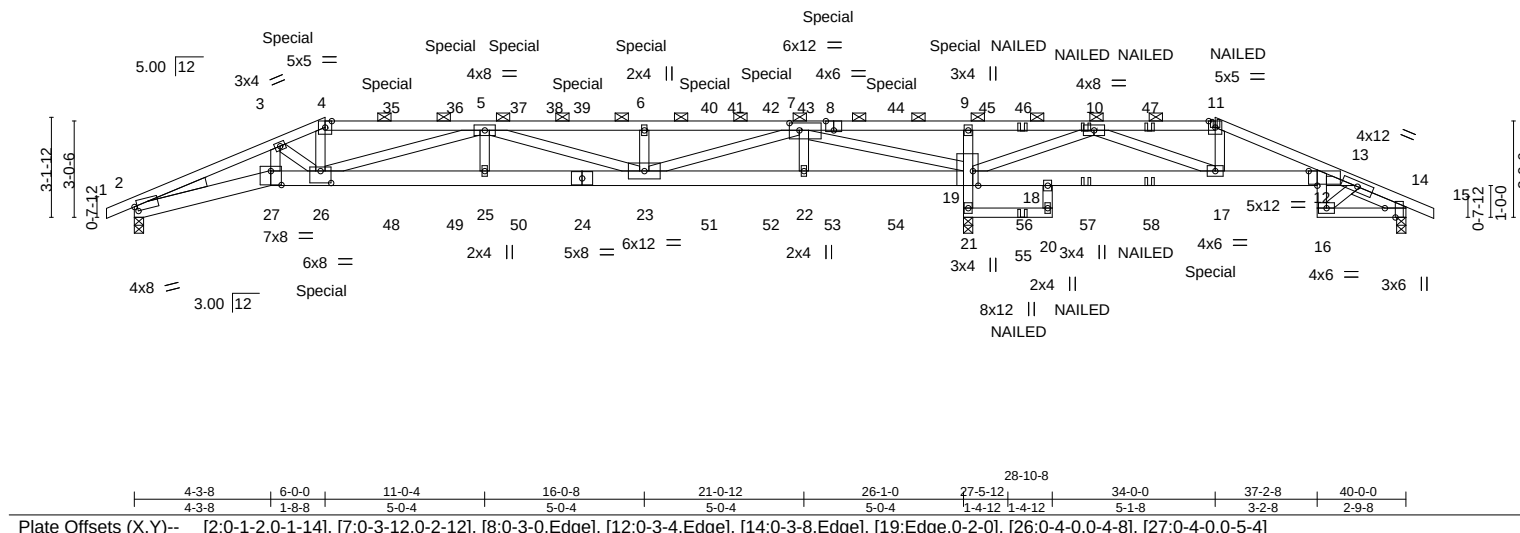
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:13:57 2020 Page 1
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 28-10-8
 -Q-10-8 4-3-8 6-0-0 11-0-4 16-0-8 21-0-12 26-1-0 27-5-12 30-2-4 34-0-0 37-2-8 40-0-0 40-10-8
 0-10-8 4-3-8 1-8-8 5-0-4 5-0-4 5-0-4 5-0-4 1-4-12 1-4-12 1-3-12 3-9-12 3-2-8 2-9-8 0-10-8
 Scale = 1:72.5

[illegible]

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
 4-8,8-11: 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF No.2 *Except*
 2-27: 2x6 SPF 2100F 1.8E, 24-27,12-19,19-24: 2x6 SPF No.2
 20-21,14-16: 2x4 SP 2400F 2.0E

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

SLIDER Right 2x4 SPF No.2 1-9-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-3-4 oc purlins, except 2-0-0 oc purlins (5-9-13 max.): 4-11.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-2-5 oc bracing: 19-21 6-0-0 oc bracing: 20-21,17-18.

REACTIONS.

(size) 2=0-3-8, 21=0-3-8, 14=0-3-8
 Max Horz 2=26(LC 60)
 Max Uplift 2=-152(LC 8), 21=-382(LC 8), 14=-20(LC 13)
 Max Grav 2=1924(LC 35), 21=5213(LC 34), 14=449(LC 35)

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

TOP CHORD	2-3=-6318/527, 3-4=-6154/538, 4-5=-5724/505, 5-6=-5576/572, 6-7=-5576/572, 7-9=-428/6143, 9-10=-465/6194, 10-11=-403/148, 11-12=-442/184, 12-13=-307/28
BOT CHORD	2-327/5805, 26-27=-449/5689, 25-26=-630/7228, 23-25=-630/7228, 22-23=-179/1272, 19-22=-171/1259, 19-21=-5125/402, 9-19=-906/134, 18-19=-2268/206, 17-18=-2471/218, 12-17=-135/366, 12-16=0/813, 14-16=0/468
WEBS	3-27=-26/482, 3-26=-293/208, 4-26=-94/1449, 5-26=-1584/190, 5-23=-1779/121, 6-23=-826/122, 7-23=-359/4558, 7-19=-7737/672, 11-17=-309/105, 13-16=-965/0, 10-19=-4035/321, 10-17=-92/3037

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 3) Unbalanced roof live loads have been considered for this design.
 - 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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
 - 5) 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.
 - 6) Unbalanced snow loads have been considered for this design.
 - 7) 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
- Common concurrent with other live loads.



June 22, 2020
RELEASE FOR CONSTRUCTION

NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017



Design valid for use only with MiTek® colcoators. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI 1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	A18	HIP GIRDER	1	2	I41748592
Job Reference (optional)					

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:57 2020 Page 2
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- NOTES-**
- 8) Provide adequate drainage to prevent water ponding.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) 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.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 2=152, 21=382.
 - 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 238 lb down and 53 lb up at 6-0-0, 238 lb down and 53 lb up at 8-0-12, 238 lb down and 53 lb up at 10-0-12, 238 lb down and 53 lb up at 12-0-12, 238 lb down and 53 lb up at 14-0-12, 238 lb down and 53 lb up at 16-0-12, 238 lb down and 53 lb up at 18-0-12, 238 lb down and 53 lb up at 20-0-0, 238 lb down and 53 lb up at 21-11-4, and 238 lb down and 53 lb up at 23-11-4, and 238 lb down and 53 lb up at 25-11-4 on top chord, and 430 lb down and 52 lb up at 6-0-0, and 546 lb down and 71 lb up at 33-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-4=-51, 4-11=-61, 11-12=-51, 12-15=-51, 27-28=-20, 19-27=-20, 20-21=-20, 12-18=-20, 16-31=-20
 - Concentrated Loads (lb)
 - Vert: 4=-211(F) 8=-206(F) 9=-206(F) 26=-430(F) 6=-206(F) 17=-546(F) 11=-119(F) 10=-114(F) 35=-206(F) 36=-206(F) 37=-206(F) 39=-206(F) 40=-206(F) 42=-206(F) 44=-206(F) 46=-121(F) 47=-114(F) 55=-81(F) 57=-89(F) 58=-89(F)

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LEE'S SUMMIT, MISSOURI

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07/21/2020

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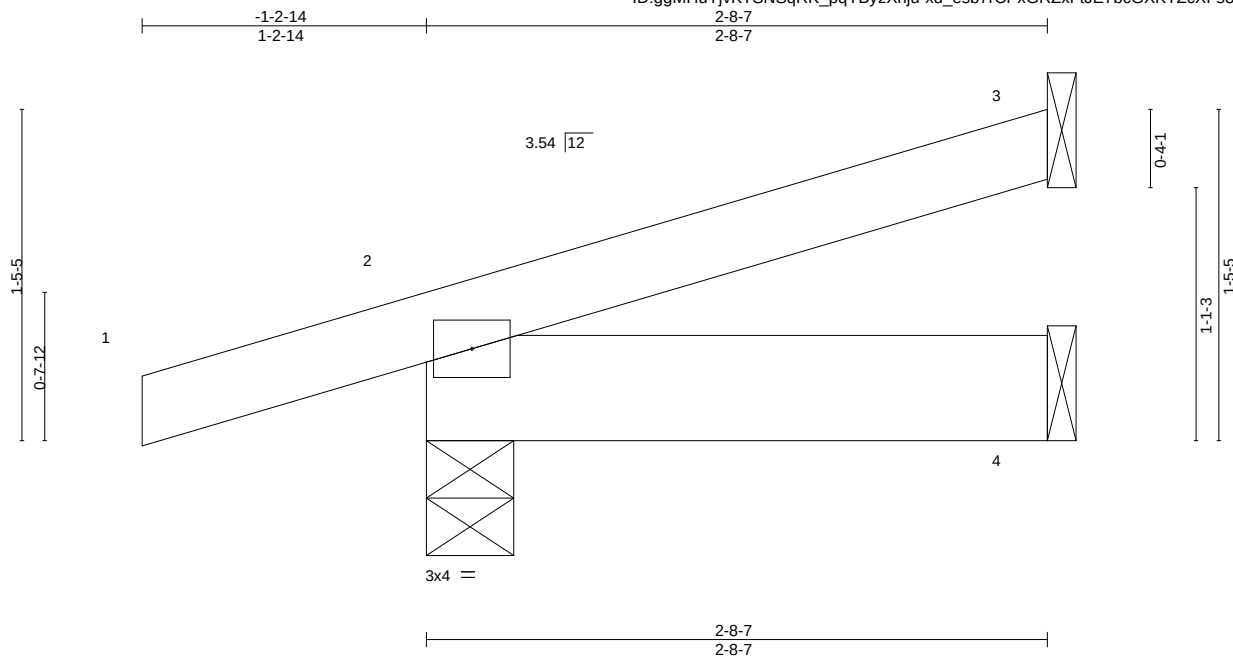
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Job 2379052	Truss CJ1	Truss Type Jack-Open	Qty 1	Ply 1	Summit/63 Hawthorn Ridge Job Reference (optional)	I41748593
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:19 2020 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.10	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	3	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MP							
BCDL 10.0	Code IRC2018/TP12014							Weight: 10 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 2-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=34(LC 8)
Max Uplift 3=-14(LC 12), 2=-41(LC 8)
Max Grav 3=65(LC 17), 2=227(LC 17), 4=52(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.



June 22 2020

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

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Chesterfield, MO 63017

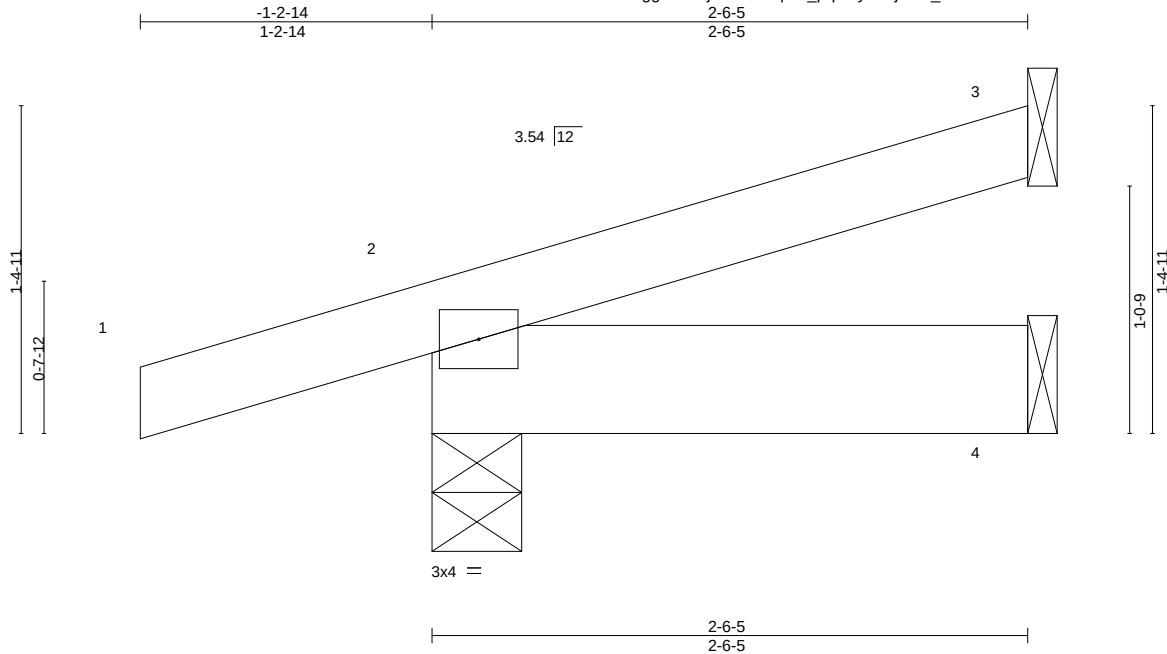
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Job 2379052	Truss CJ2	Truss Type Jack-Open	Qty 1	Ply 1	Summit/63 Hawthorn Ridge Job Reference (optional)	I41748594
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:19 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-xd_esb7rCPxGRZxFtJE7bcGXKTZgXFs3GiZJIEz3JS2



Scale = 1:9.8

LOADING (psf)		SPACING-		CSI.		DEFL.		I/defl		L/d		PLATES	GRIP
TCLL (roof)	25.0	2-0-0		TC	0.10	in (loc)						MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.02	Vert(LL)	-0.00	7	>999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.00	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/TP12014										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 2-6-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=32(LC 8)
Max Uplift 3=-13(LC 12), 2=-41(LC 8)
Max Grav 3=59(LC 2), 2=219(LC 2), 4=48(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.



June 22 2020

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

**CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI**

MiTek

07/21/2020

16023 Swingley Ridge Rd
Chesterfield, MO 63017

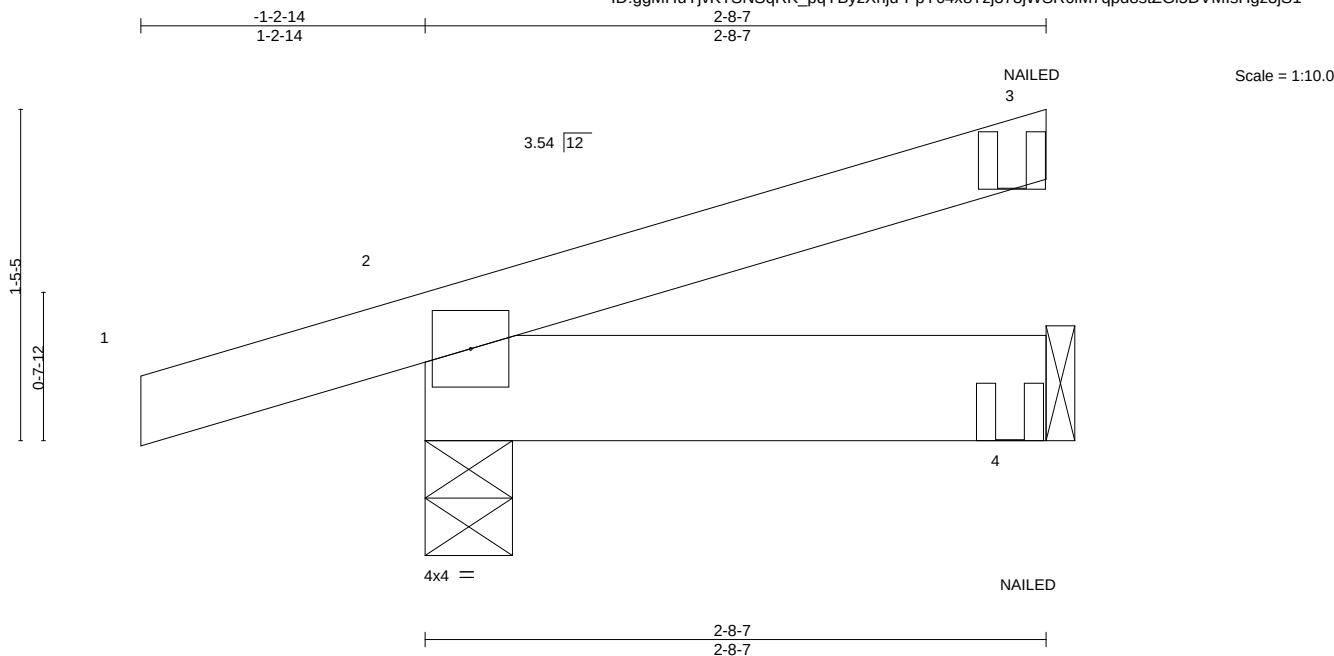
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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.

Job 2379052	Truss CJ3	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Summit/63 Hawthorn Ridge Job Reference (optional)	I41748595
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:20 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-PpY04x8Tzj373jWSR0IM7qpd8stZGi5DVMIsHgZ3jS1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.41	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)	-0.00 4-7 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.01 4-7 >999	180			
BCLL	0.0	Rep Stress Incr	NO	Matrix-MP		Horz(CT)	0.00 2 n/a	n/a			
BCDL	10.0	Code IRC2018/TP12014							Weight: 10 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 2-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-9, 4=Mechanical
Max Horz 2=30(LC 8)
Max Uplift 2=-37(LC 30), 4=-20(LC 9)
Max Grav 2=227(LC 17), 4=123(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) 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, 4.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "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: 1-3=-51, 4-5=-20
Concentrated Loads (lb)
Vert: 3=-6(B) 4=-19(B)



June 22 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

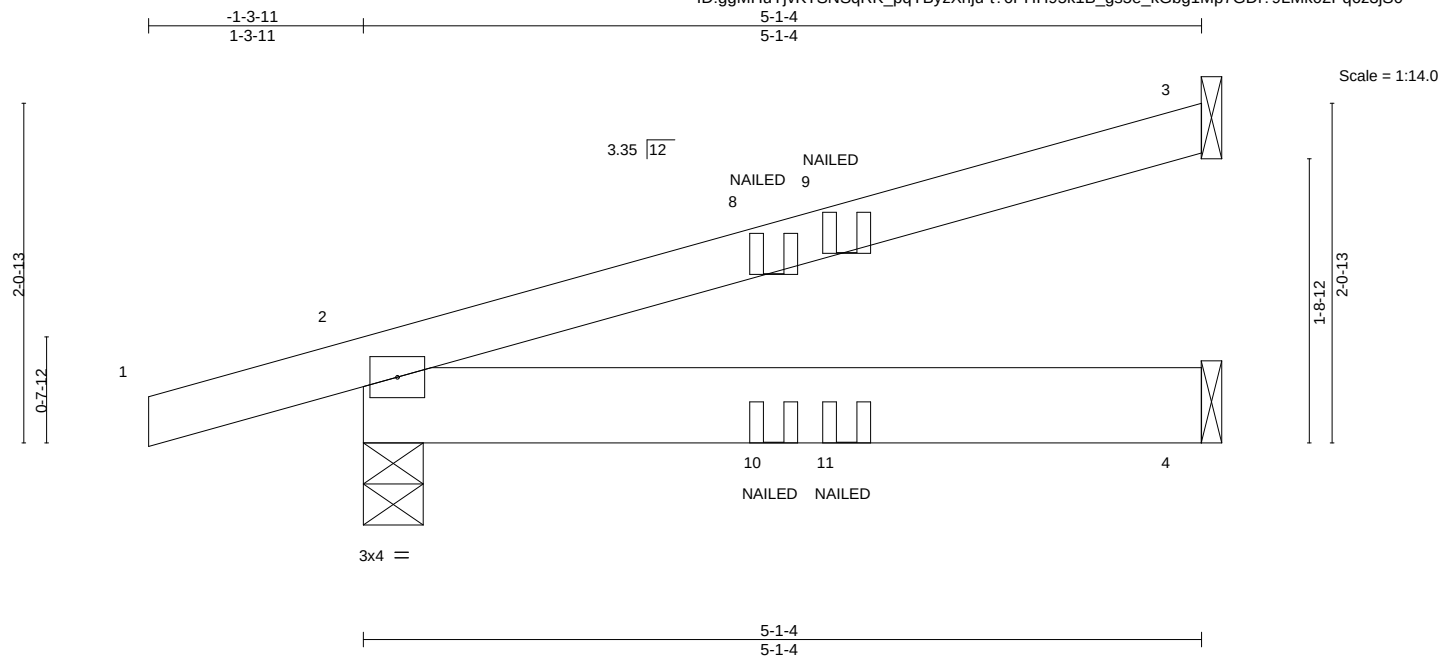
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Job 2379052	Truss CJ4	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Summit/63 Hawthorn Ridge I41748596
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.33	Vert(LL) -0.01	4-7	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT) -0.03	4-7	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT) 0.01	3	n/a	n/a		
BCLL 0.0	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IRC2018/TP12014						Weight: 17 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 5-1-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-4-6, 4=Mechanical
Max Horz 2=50(LC 30)
Max Uplift 3=-29(LC 12), 2=-44(LC 8)
Max Grav 3=140(LC 17), 2=345(LC 17), 4=105(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) "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: 1-3=-51, 4-5=-20
Concentrated Loads (lb)
Vert: 10=-2(B) 11=-9(F)



June 22 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

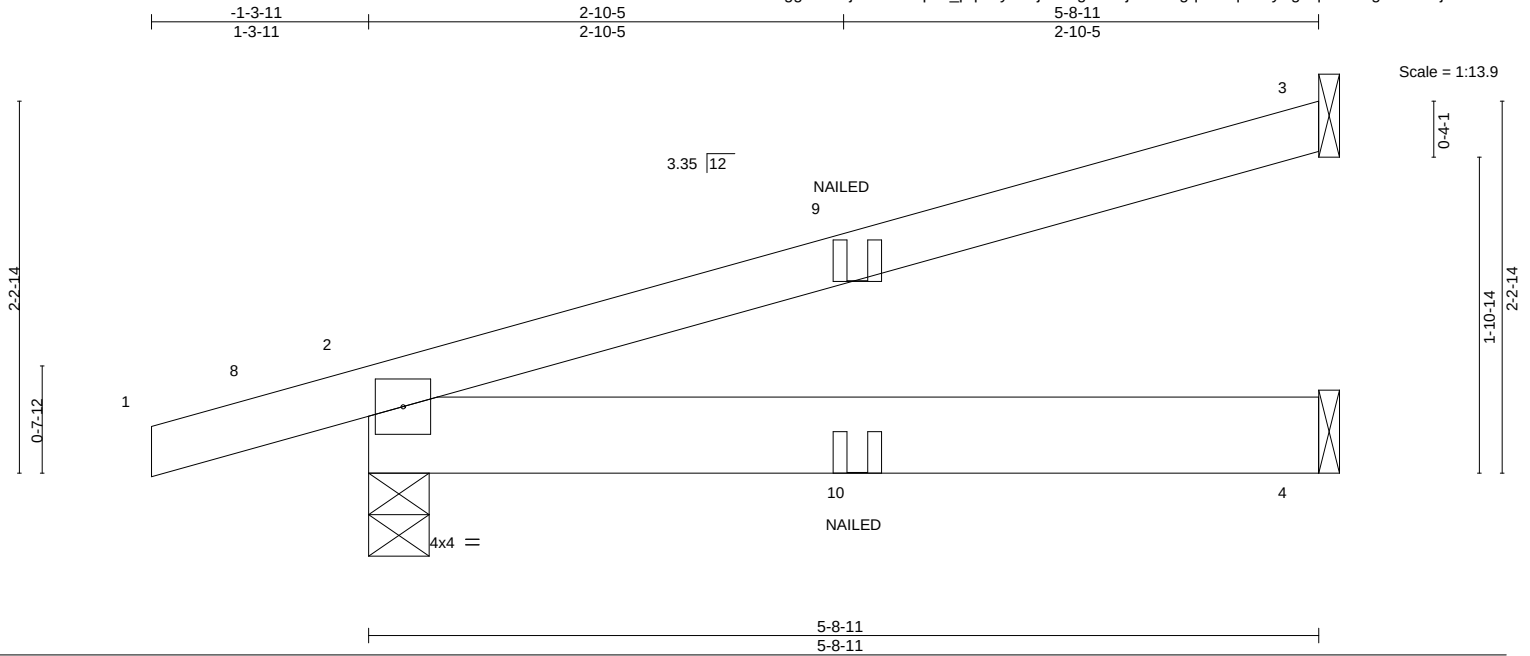
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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748597
2379052	CJ5	Diagonal Hip Girder	1	1		

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

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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.44	in (loc)	l/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.25	Vert(LL)	-0.02 4-7 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.04 4-7 >999	180			
BCLL	0.0	Rep Stress Incr	NO	Matrix-MP		Horz(CT)	0.01 3 n/a	n/a			
BCDL	10.0	Code IRC2018/TP12014							Weight: 19 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 5-8-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-4-6, 4=Mechanical
Max Horz 2=54(LC 8)
Max Uplift 3=-32(LC 12), 2=-44(LC 8)
Max Grav 3=159(LC 17), 2=361(LC 2), 4=118(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) "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: 1-3=-51, 4-5=-20
Concentrated Loads (lb)
Vert: 10=-9(B)



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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Job 2379052	Truss CJ6	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Summit/63 Hawthorn Ridge I41748598
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:23 2020 Page 1
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Scale = 1:19.8

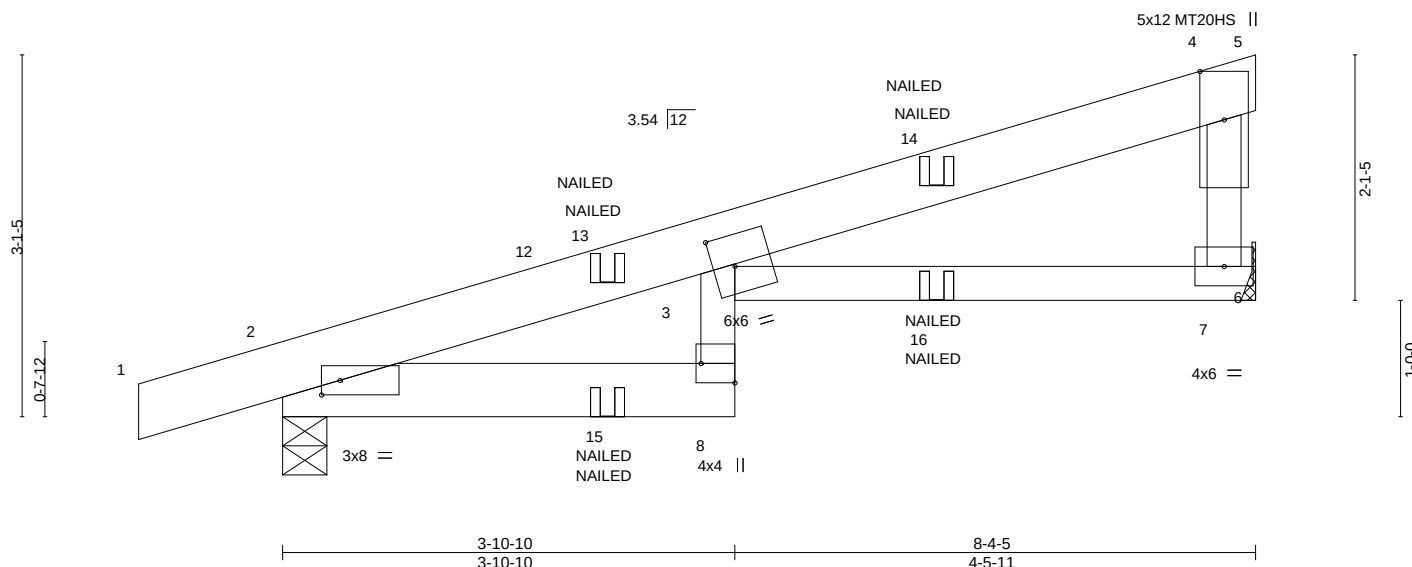


Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [3:0-2-3,0-3-4], [8:Edge,0-3-8]		3-10-10 3-10-10		8-4-5 4-5-11	
LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.51
TCDL	10.0	Rep Stress Incr	NO	WB	0.00
BCLL	0.0	Code IRC2018/TPI2014		Matrix-MR	
BCDL	10.0				
				DEFL.	
				in (loc)	l/defl L/d
				Vert(LL)	-0.15 8 >644 240
				Vert(CT)	-0.26 8 >379 180
				Horz(CT)	0.11 7 n/a n/a
				PLATES	GRIP
				MT20	197/144
				MT20HS	148/108
				Weight: 33 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-8: 2x6 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 10-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-4-9
Max Horz 2=69(LC 31)
Max Uplift 7=-51(LC 12), 2=-60(LC 8)
Max Grav 7=485(LC 17), 2=502(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-281/30, 4-7=-324/48
BOT CHORD 3-7=-34/288

- 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) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-51, 3-4=-51, 4-5=-51, 8-9=-20, 3-6=-20
Concentrated Loads (lb)
Vert: 14=-31(F=-16, B=-16) 15=-10(F=-5, B=-5) 16=-124(F=-62, B=-62)



June 22, 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

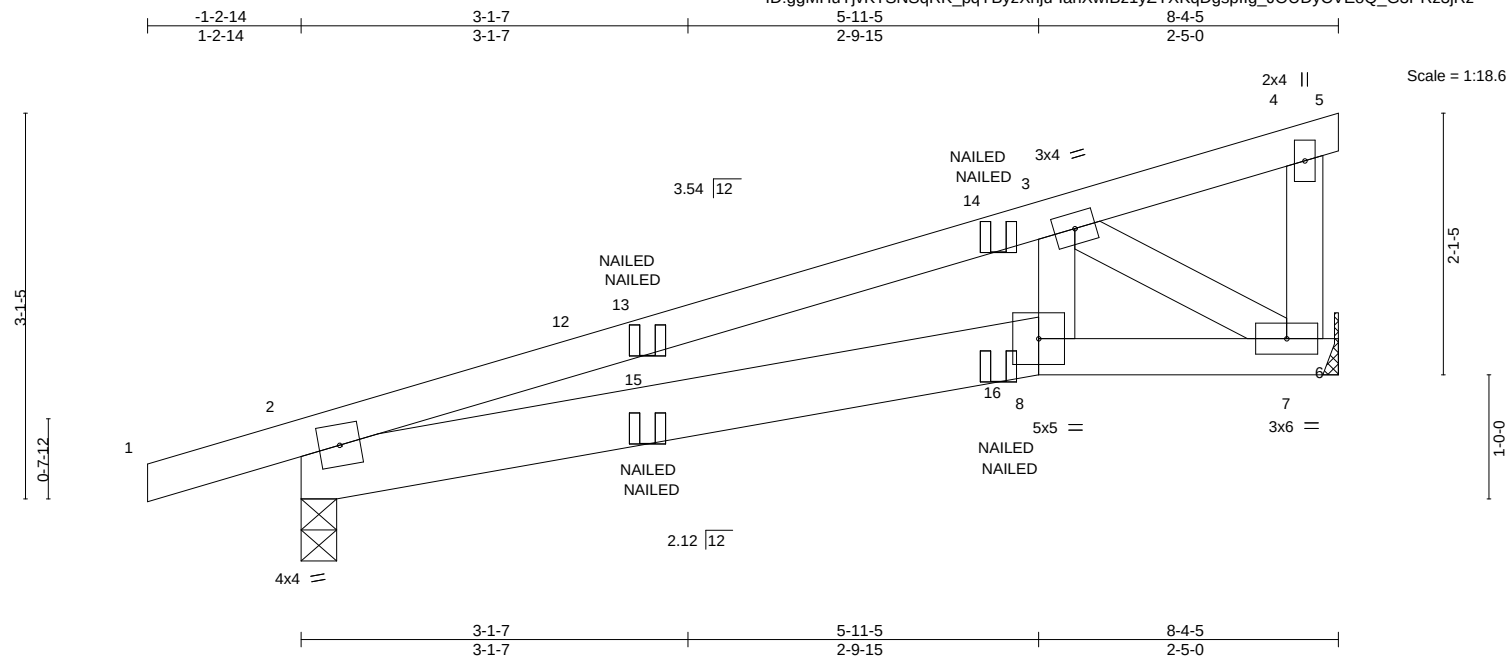
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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748599
2379052	CJ7	Diagonal Hip Girder	1	1		

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

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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.33	in (loc)	l/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.27	Vert(LL)	-0.02 8-11 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.12	Vert(CT)	-0.04 8-11 >999	180			
BCLL	0.0	Rep Stress Incr	NO	Matrix-MP		Horz(CT)	0.01 7 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014							Weight: 30 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 2-8: 2x6 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 10-0-0 oc bracing.

REACTIONS.

(size) 7=Mechanical, 2=0-3-7
 Max Horz 2=69(LC 9)
 Max Uplift 7=-24(LC 12), 2=-48(LC 8)
 Max Grav 7=459(LC 17), 2=490(LC 2)

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

TOP CHORD 2-3=-822/45
 BOT CHORD 2-8=-55/772, 7-8=-54/706
 WEBS 3-8=0/282, 3-7=-813/74

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) 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) 7, 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-51, 4-5=-51, 8-9=-20, 6-8=-20
 Concentrated Loads (lb)
 Vert: 14=-77(F=-39, B=-39) 15=-14(F=-7, B=-7) 16=-78(F=-39, B=-39)



June 22, 2020
 RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
 LEE'S SUMMIT, MISSOURI

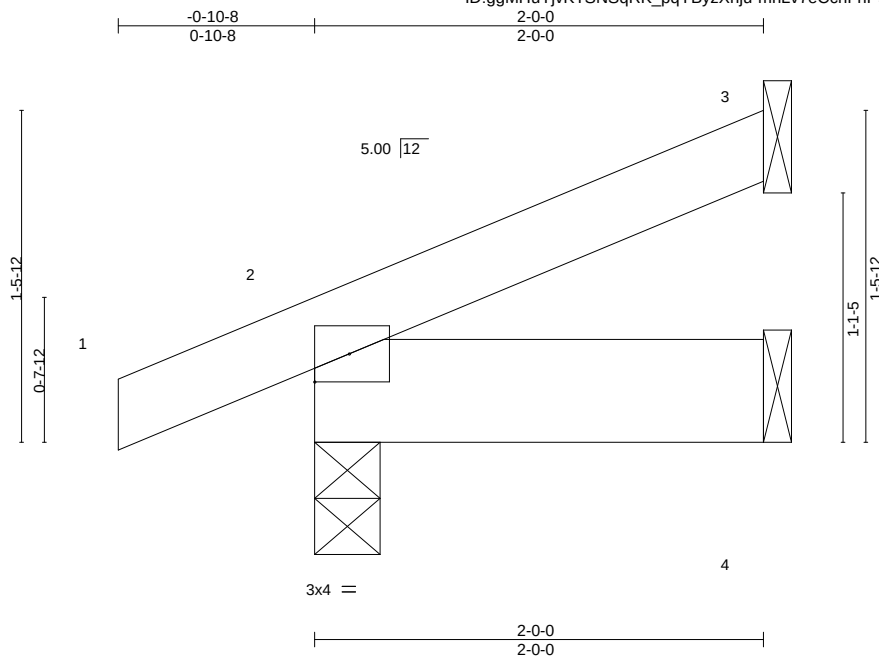
MiTek
 07/21/2020
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

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.

Job 2379052	Truss J1	Truss Type Jack-Open	Qty 3	Ply 1	Summit/63 Hawthorn Ridge I41748600
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:25 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-mnLv7eCcnFhP9UOPDZKXqtWZXtcBxzLyfe0dyuz3jRy



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.05	in (loc)	l/defl	L/d			
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.02	Vert(LL)	-0.00 7 >999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.00 7 >999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-MP		Horz(CT)	0.00 2 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014							Weight: 7 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 2-0-0 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=28(LC 12)
Max Uplift 3=-13(LC 12), 2=-13(LC 8)
Max Grav 3=49(LC 17), 2=166(LC 17), 4=40(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.



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CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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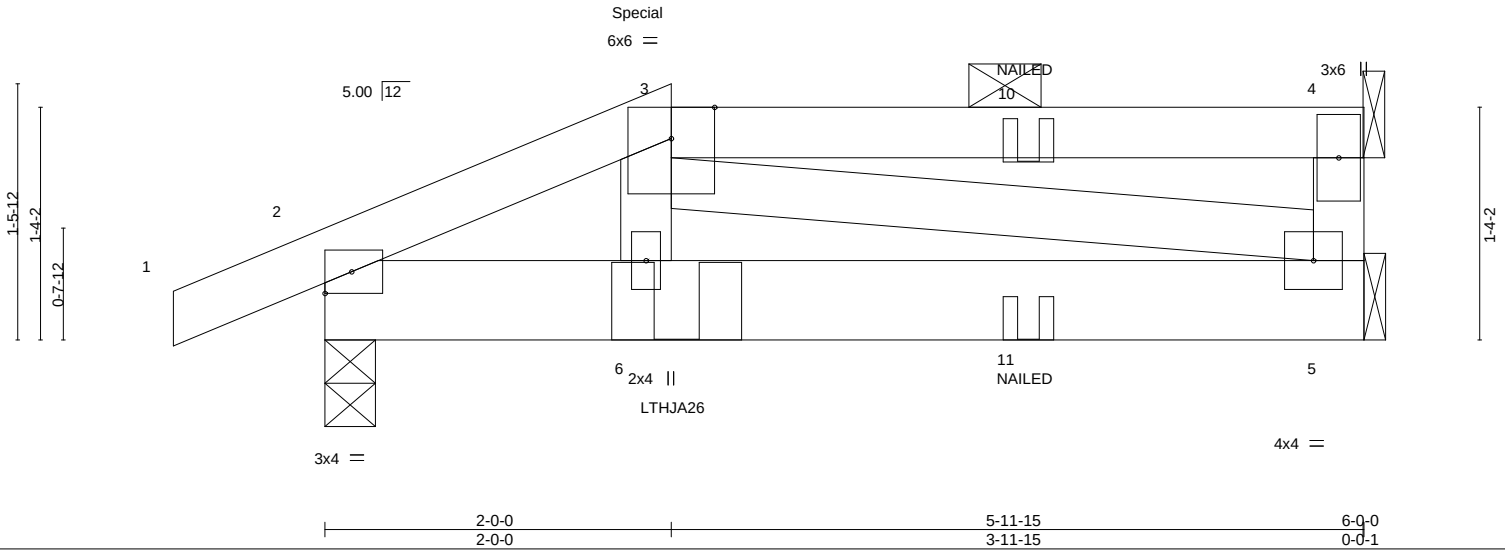
Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748601
2379052	J2	Half Hip Girder	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:34 2020 Page 1
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Scale = 1:13.3



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.38	in	(loc)	I/defl	L/d	MT20		197/144	
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15	BC	0.12	Vert(LL)	-0.00	6	>999				
TCDL	10.0	Lumber DOL	1.15	WB	0.10	Vert(CT)	-0.01	5-6	>999				
BCLL	0.0	Rep Stress Incr	NO	Matrix-MP		Horz(CT)	0.00	4	n/a				
BCDL	10.0	Code IRC2018/TPI2014											
										Weight: 25 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 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, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=32(LC 11)
Max Uplift 2=-20(LC 8), 4=-26(LC 8)
Max Grav 5=138(LC 7), 2=341(LC 2), 4=162(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-368/0
BOT CHORD 2-6=-10/319, 5-6=-14/315
WEBS 3-5=-326/9

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Left Hand Hip) or equivalent at 2-0-6 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "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) 75 lb down and 41 lb up at 2-0-0 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

Continued on page 2



June 22, 2020
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CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748601
2379052	J2	Half 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, 3-4=-61, 5-7=-20

Concentrated Loads (lb)

Vert: 6=-14(F) 11=-7(F)

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LEE'S SUMMIT, MISSOURI



07/21/2020

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Chesterfield, MO 63017

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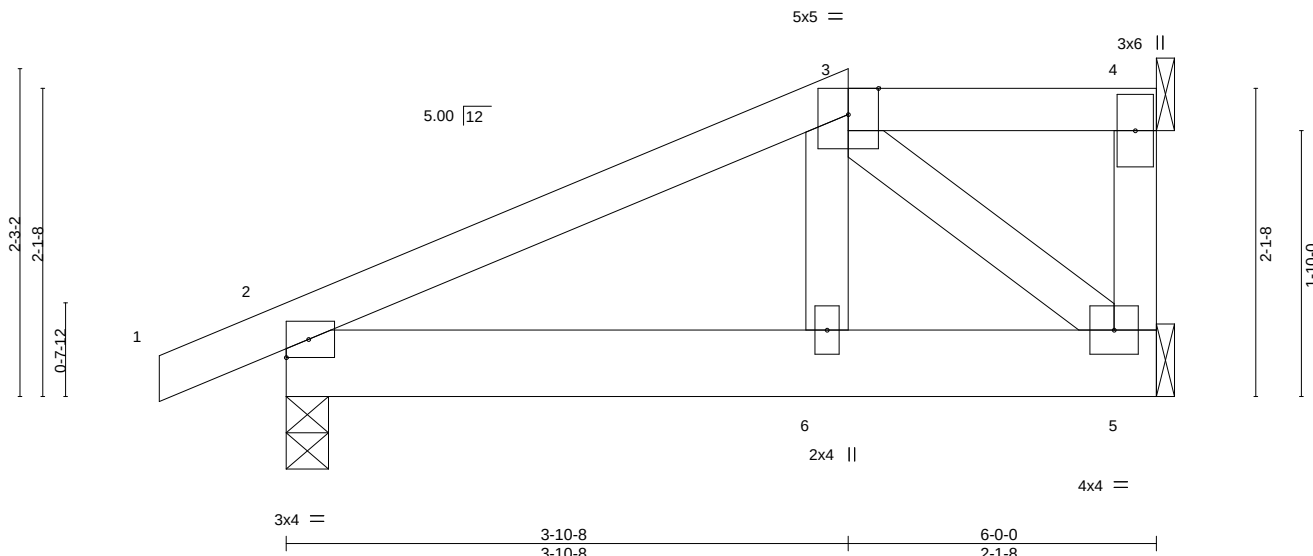
Job 2379052	Truss J3	Truss Type Half Hip	Qty 1	Ply 1	Summit/63 Hawthorn Ridge Job Reference (optional)	I41748602
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:40 2020 Page 1
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Scale: 3/4"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.17	Vert(LL)	-0.00	6-9	>999	240	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	-0.01	6-9	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	2	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS							
BCDL 10.0	Code IRC2018/TPI2014							Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 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: 3-4.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 5=Mechanical, 4=Mechanical
Max Horz 2=55(LC 11)
Max Uplift 2=-16(LC 12), 5=-1(LC 9), 4=-14(LC 8)
Max Grav 2=366(LC 32), 5=190(LC 2), 4=83(LC 31)

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

TOP CHORD 2-3=-283/11
WEBS 3-5=-269/14

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



June 22 2020
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AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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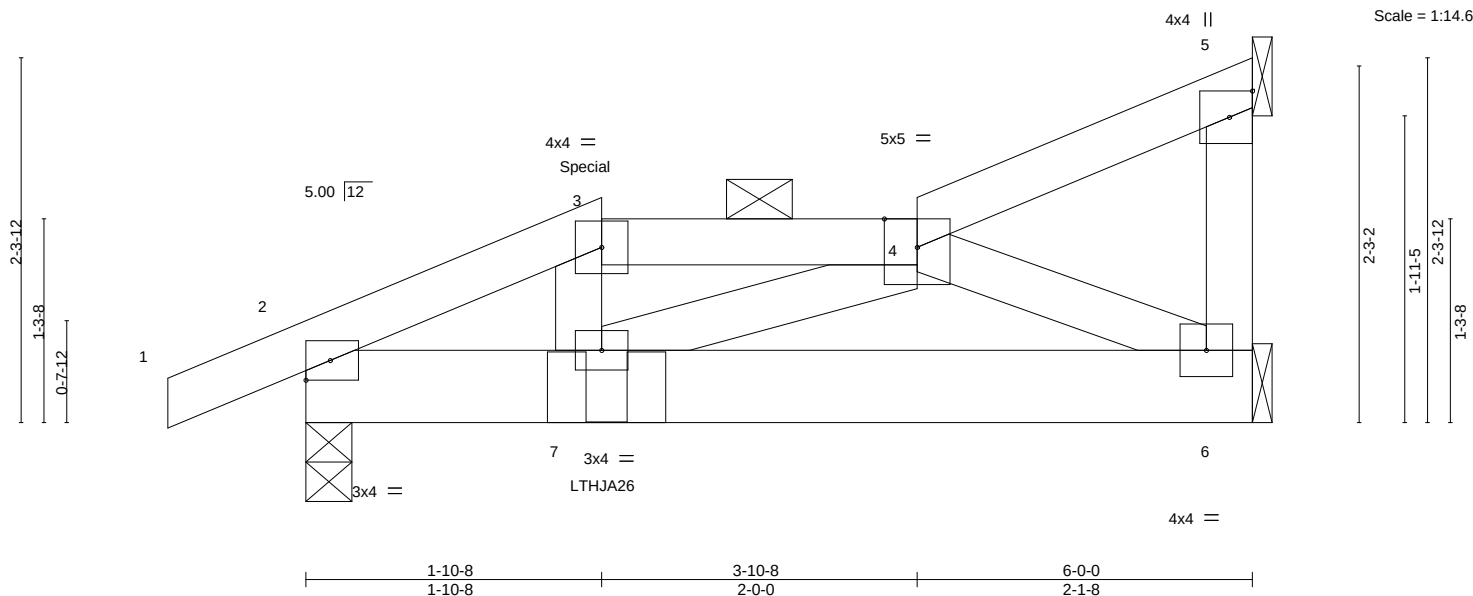
Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748603
2379052	J4	Roof Special Girder	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:42 2020 Page 1

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-0-10-8	1-10-8	3-10-8	6-0-0
0-10-8	1-10-8	2-0-0	2-1-8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00 6-7 >999 240	MT20		197/144	
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01 6-7 >999 180				
TCDL	10.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.00 5 n/a n/a				
BCLL	0.0	Code IRC2018/TPI2014		Matrix-MP							
BCDL	10.0										

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 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, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=59(LC 11)
Max Uplift 6=-5(LC 12), 2=-18(LC 12), 5=-15(LC 9)
Max Grav 6=196(LC 2), 2=344(LC 2), 5=83(LC 35)

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

TOP CHORD 2-3=-380/1, 3-4=-330/9
BOT CHORD 2-7=-12/333, 6-7=-26/306
WEBS 4-6=-341/43

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 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) 6, 2, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Right Hand Hip) or equivalent at 1-10-14 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 39 lb up at 1-10-8 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



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LEE'S SUMMIT, MISSOURI

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16023 Swingley Ridge Rd
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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748603
2379052	J4	Roof Special 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, 3-4=-61, 4-5=-51, 6-8=-20

Concentrated Loads (lb)

Vert: 7=-19(B)

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LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

16023 Swingley Ridge Rd
Chesterfield, MO 63017

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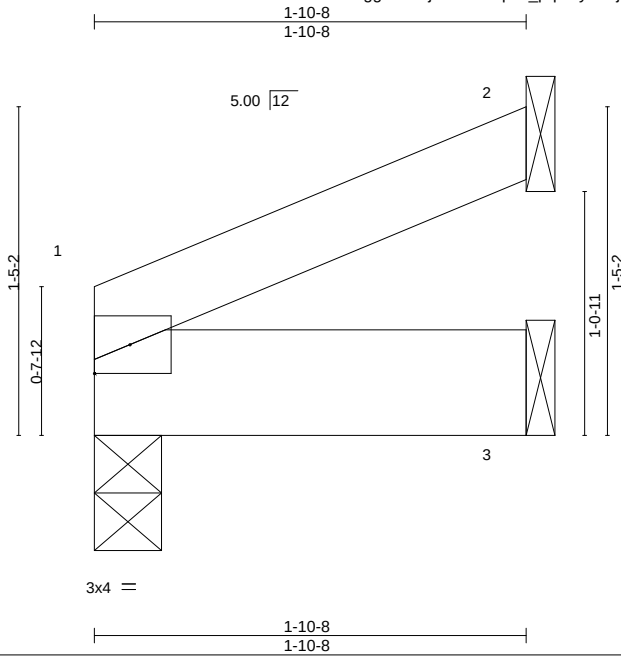
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	J5	Jack-Open	1	1	I41748604
Job Reference (optional)					

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:42 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-m2tLhSPGnUq?i5Cgje8X0TJTakQ_QfYSZnd02Pz3jRh



Scale = 1:10.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.03	Vert(LL)	-0.00	6	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	-0.00	6	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	2	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 6 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 1-10-8 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=20(LC 12)
Max Uplift 2=-12(LC 12)
Max Grav 1=84(LC 2), 2=48(LC 2), 3=40(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 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) 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.



June 22 2020

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CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

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Chesterfield, MO 63017

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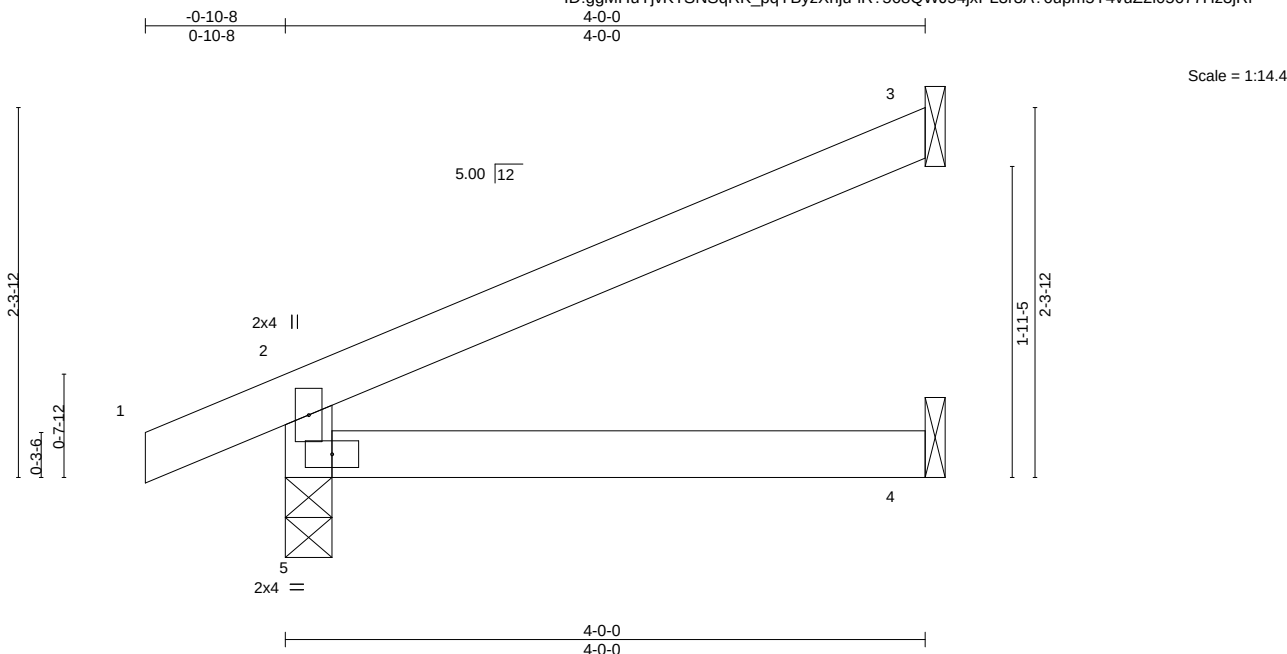
Job 2379052	Truss J6	Truss Type Jack-Open	Qty 6	Ply 1	Summit/63 Hawthorn Ridge I41748605
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:44 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-iR?568QWJ54jxPL3r3A?6upm5Y4vuZ2I05677Hz3jRf



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 0.13	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 4-0-0 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=46(LC 12)
Max Uplift 3=-30(LC 12), 5=-9(LC 8)
Max Grav 3=127(LC 17), 4=71(LC 7), 5=272(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.



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Chesterfield, MO 63017

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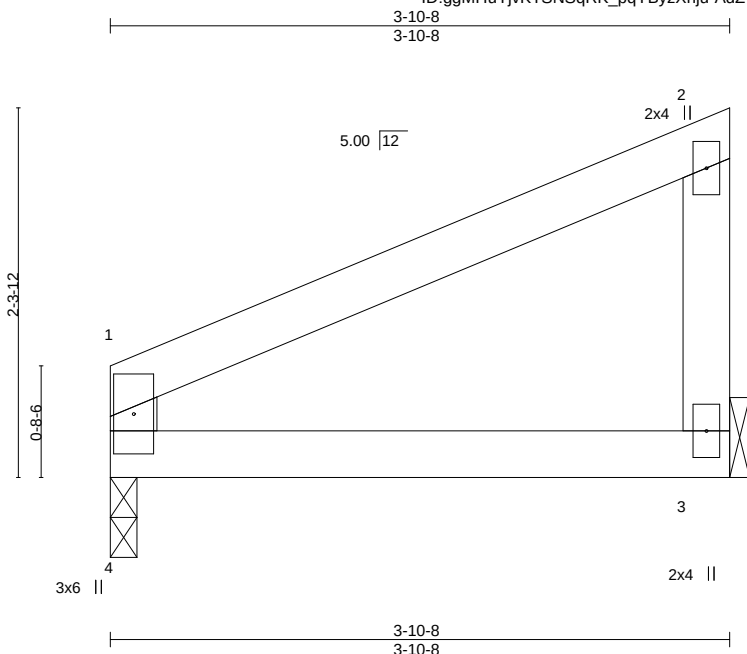
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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748606
2379052	J7	Jack-Open	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:45 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-AdZTKUR94PCaZZwFOMhEe5LyfxQcd0HuF1shfjz3jRe



Scale = 1:14.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.17	Vert(LL)	-0.01	3-4	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	-0.01	3-4	>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-R						
BCDL 10.0	Code IRC2018/TPI2014						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 3-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=0-2-0, 3=Mechanical
Max Horz 4=57(LC 9)
Max Uplift 4=-4(LC 12), 3=-14(LC 12)
Max Grav 4=167(LC 16), 3=167(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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
- 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.



June 22 2020

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Job 2379052	Truss J8	Truss Type Roof Special Girder	Qty 1	Ply 1	Summit/63 Hawthorn Ridge Job Reference (optional)	I41748607
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:46 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-ep6rXqSnrikRAIVryUDTBju8ZLmNMTm2UPbEBaz3jRd

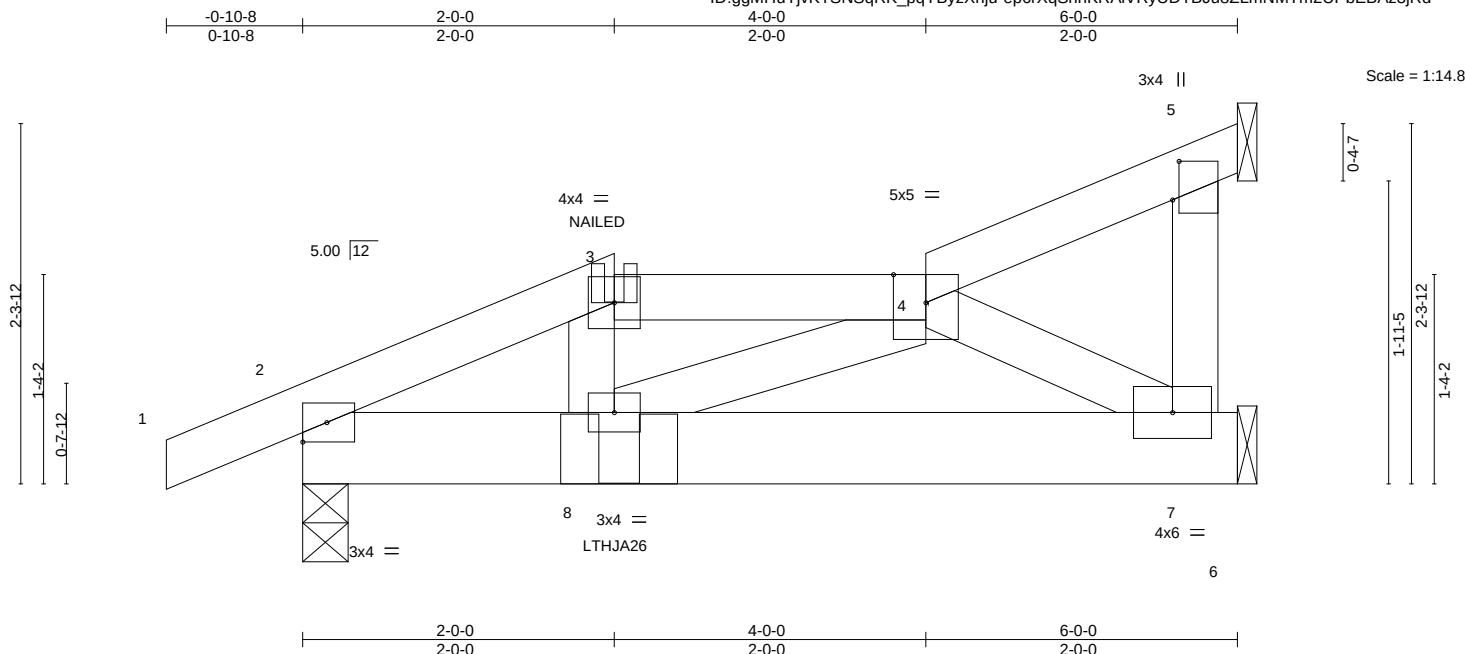


Plate Offsets (X,Y)-- [5:0-3-0,0-0-8]		2-0-0 2-0-0		4-0-0 2-0-0		6-0-0 2-0-0	
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00 8 >999 240
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01 7-8 >999 180
TCDL	10.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.00 5 n/a n/a
BCLL	0.0	Code IRC2018/TPI2014		Matrix-MP			
BCDL	10.0						
						PLATES	GRIP
						MT20	197/144
						Weight: 26 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 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, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 7=Mechanical, 2=0-3-8
Max Horz 2=57(LC 53)
Max Uplift 5=-14(LC 9), 7=-15(LC 12), 2=-40(LC 12)
Max Grav 5=73(LC 35), 7=231(LC 2), 2=394(LC 35)

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

TOP CHORD 2-3=-464/45, 3-4=-402/48
BOT CHORD 2-8=-50/408, 7-8=-37/301
WEBS 4-7=-350/57

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 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, 7, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 1 ply, Left Hand Hip) or equivalent at 2-0-6 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.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (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



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	J8	Roof Special Girder	1	1	I41748607
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, 3-4=-61, 4-5=-51, 6-9=-20

Concentrated Loads (lb)

Vert: 8=-101(F)

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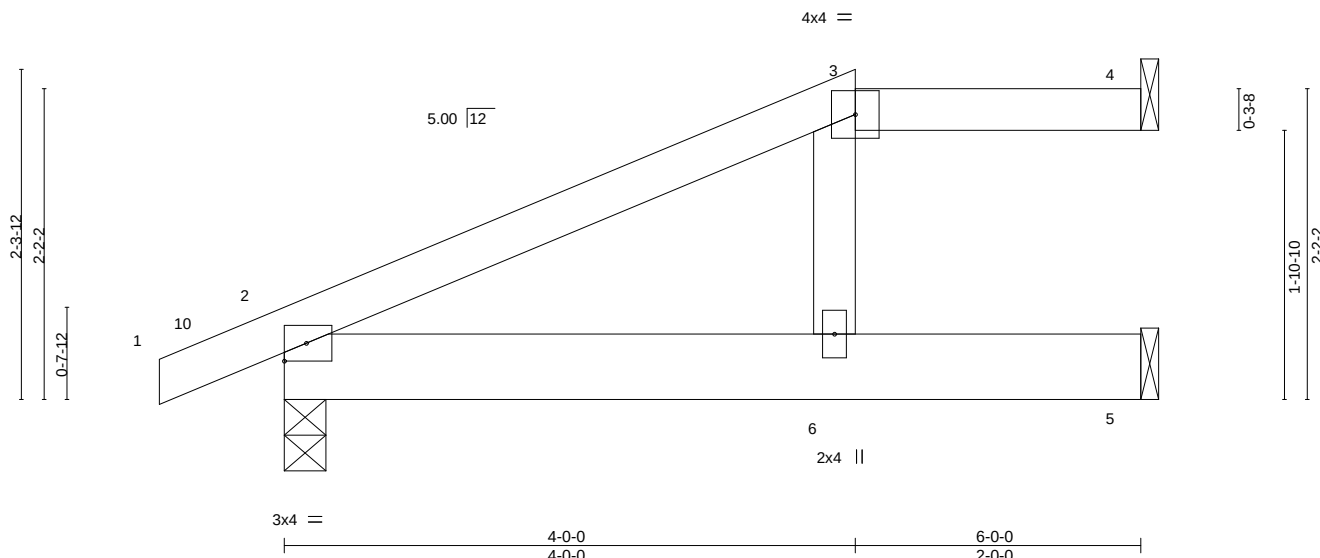
Job 2379052	Truss J9	Truss Type Jack-Open	Qty 2	Ply 1	Summit/63 Hawthorn Ridge I41748608
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:47 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-7?gEIATPc0Slos4eWBkijWRHEI2J5wNBj3Lnjcz3jRc



Scale: 3/4"=1'



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.04	MT20		197/144	
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.07				
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.04				
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL	10.0										

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

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=47(LC 12)
Max Uplift 4=-13(LC 8), 2=-13(LC 12), 5=-2(LC 12)
Max Grav 4=82(LC 31), 2=371(LC 32), 5=195(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=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) 4, 2, 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.
- 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.



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Job 2379052	Truss J10	Truss Type Jack-Open	Qty 6	Ply 1	Summit/63 Hawthorn Ridge I41748609
Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:25 2020 Page 1					
Job Reference (optional) ID:ggMHuYjvKTSNSqRK_pqYByzXhju-mnLv7eCcnFhP9UOPDZKXqtWREtYdxzLyfe0dyuz3jRy					

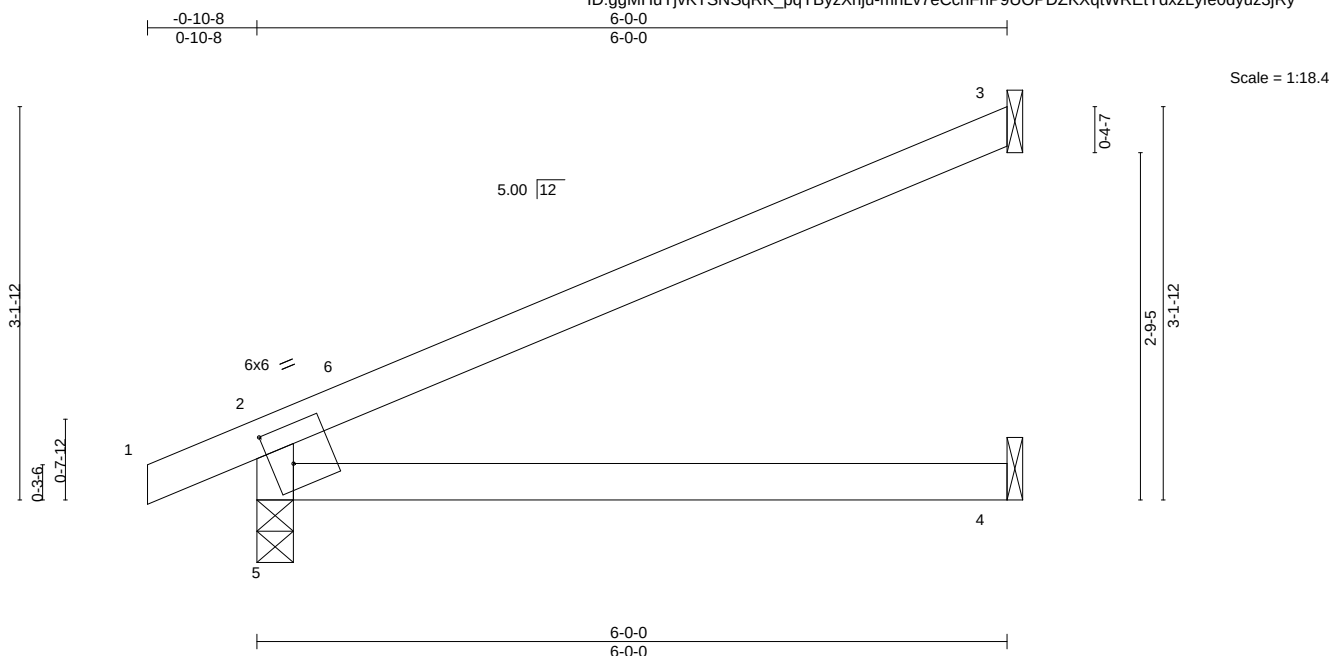


Plate Offsets (X,Y)-- [2:0-1-14,0-0-0], [2:0-2-1,0-3-10], [5:0-0-11,0-1-10]

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 0.52	Vert(LL)	-0.05	4-5	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.11	4-5	>626	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03	3	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL 10.0									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) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=68(LC 12)
Max Uplift 3=-45(LC 12), 5=-7(LC 12)
Max Grav 3=204(LC 17), 4=107(LC 7), 5=338(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-292/41

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) 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.
- 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.



June 22, 2020
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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.

AS NOTED ON PLANS REVIEW

**CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI**

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

07/21/2020

Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748610
2379052	J11	Roof Special Girder	1	1		

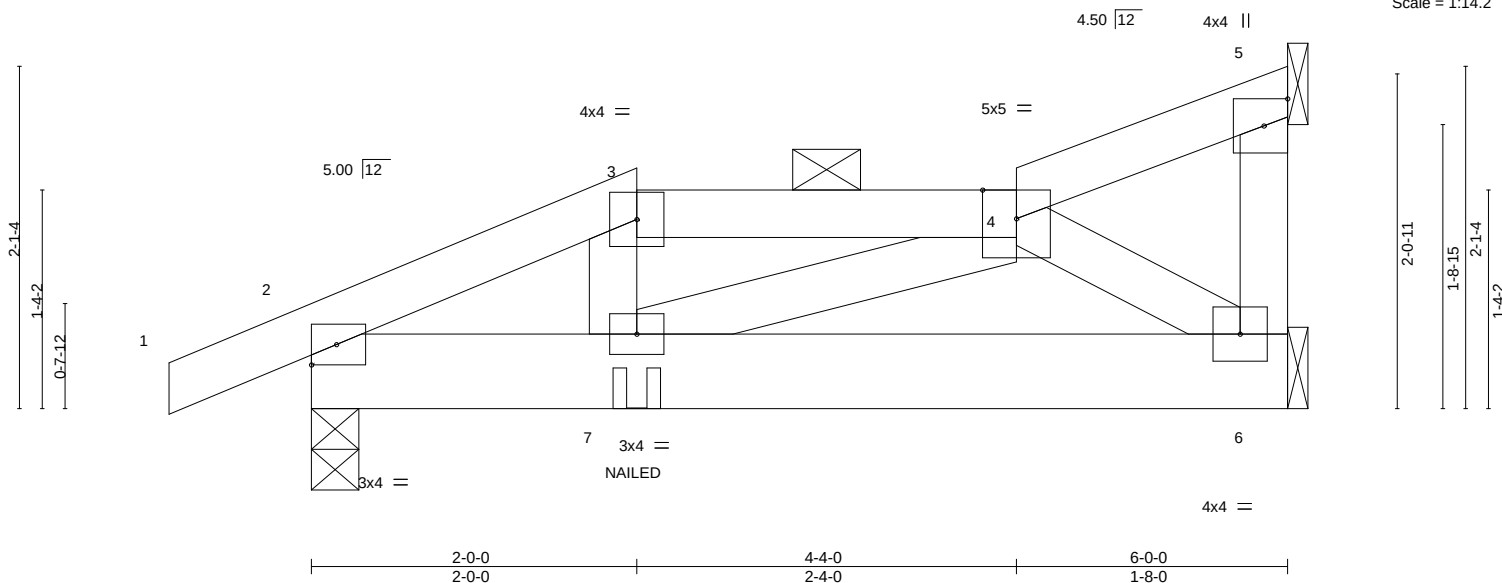
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:27 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-i9TgYKDsJtx7OnYoL_N?wlcsthHuPt6F6yVkmz3jRw

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

Scale = 1:14.2



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0	2-0-0	TC	0.13	in (loc)	I/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	20.4/20.0	Plate Grip DOL	1.15	BC	0.13	Vert(LL)	-0.00 7 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.05	Vert(CT)	-0.01 6-7 >999	180			
BCLL	0.0	Rep Stress Incr	NO	Matrix-MP		Horz(CT)	0.00 6 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014							Weight: 26 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 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, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=53(LC 11)
Max Uplift 6=-19(LC 12), 2=-42(LC 12), 5=-12(LC 9)
Max Grav 6=236(LC 2), 2=394(LC 2), 5=63(LC 36)

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

TOP CHORD 2-3=-469/47, 3-4=-409/50
BOT CHORD 2-7=-43/413, 6-7=-35/279
WEBS 4-6=-336/55

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.
- 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) 6, 2, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-51, 3-4=-61, 4-5=-51, 6-8=-20
Concentrated Loads (lb)
Vert: 7=-94(B)



June 22, 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

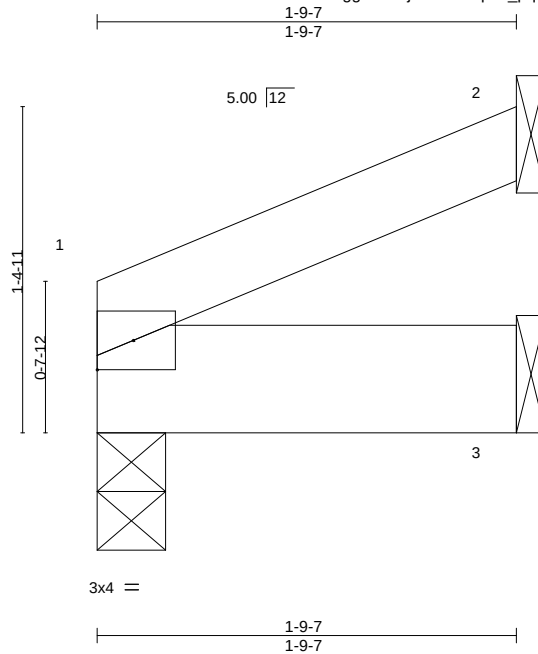
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Job 2379052	Truss J12	Truss Type Jack-Open	Qty 1	Ply 1	Summit/63 Hawthorn Ridge I41748611
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:27 2020 Page 1

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Scale = 1:9.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.03	Vert(LL)	-0.00	6	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	-0.00	6	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	1	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 6 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 1-9-7 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=19(LC 12)
Max Uplift 2=-12(LC 33)
Max Grav 1=224(LC 16), 2=46(LC 2), 3=38(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.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 167 lb down and 9 lb up at 0-0-0 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: 1-2=-51, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-156



June 22 2020

RELEASE FOR CONSTRUCTION

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CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

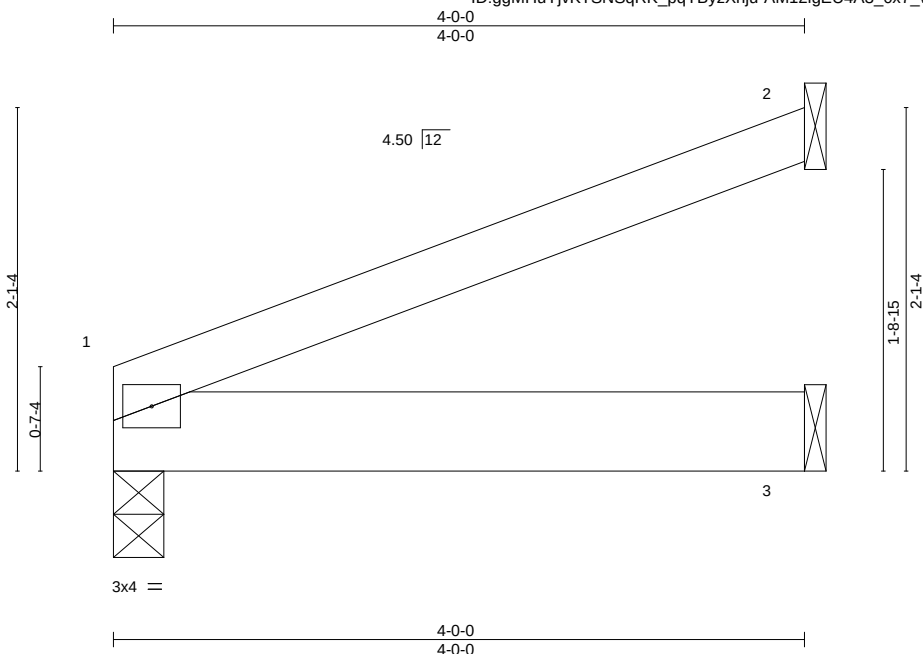
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Job 2379052	Truss J13	Truss Type Jack-Open	Qty 1	Ply 1	Summit/63 Hawthorn Ridge Job Reference (optional)	I41748612
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:28 2020 Page 1

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Scale = 1:13.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.16	Vert(LL)	-0.01	3-6	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	-0.01	3-6	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	1	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-AS						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 12 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) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=38(LC 12)
Max Uplift 1=-1(LC 12), 2=-25(LC 12)
Max Grav 1=183(LC 16), 2=110(LC 16), 3=83(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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



June 22, 2020

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CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

16023 Swingley Ridge Rd
Chesterfield, MO 63017

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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Job 2379052	Truss J14	Truss Type Jack-Open	Qty 3	Ply 1	Summit/63 Hawthorn Ridge Job Reference (optional)	I41748613
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:29 2020 Page 1

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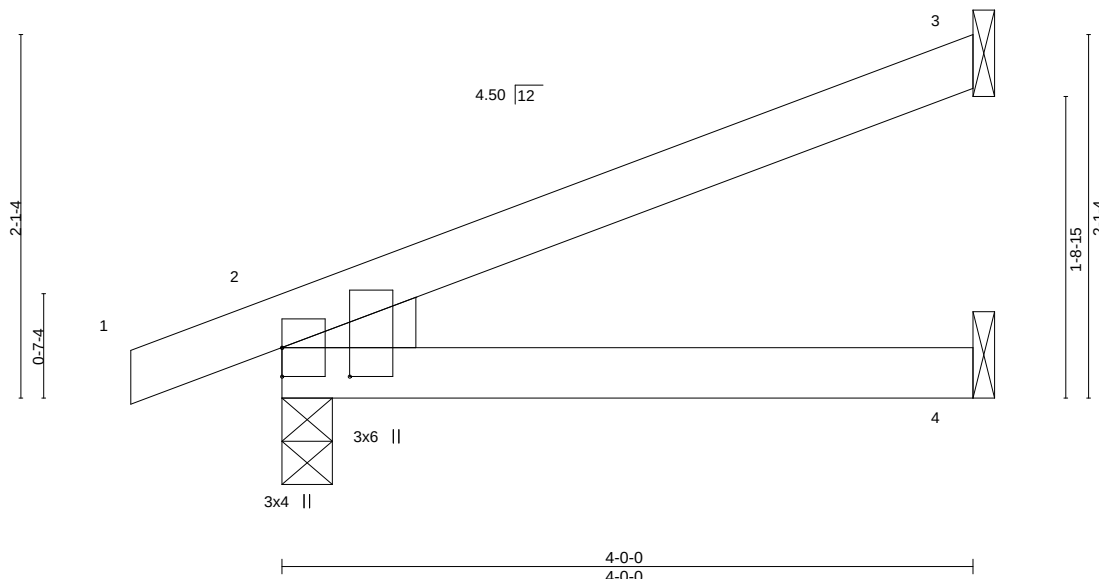


Plate Offsets (X,Y)-- [2:0-2-0,0-4-11]

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 0.20	Vert(LL)	-0.01	4-7	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.03	4-7	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL 10.0									Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEDGE
Left: 2x4 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=47(LC 8)
Max Uplift 3=25(LC 12), 2=21(LC 8)
Max Grav 3=124(LC 17), 2=261(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) 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) 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.



June 22, 2020

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CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

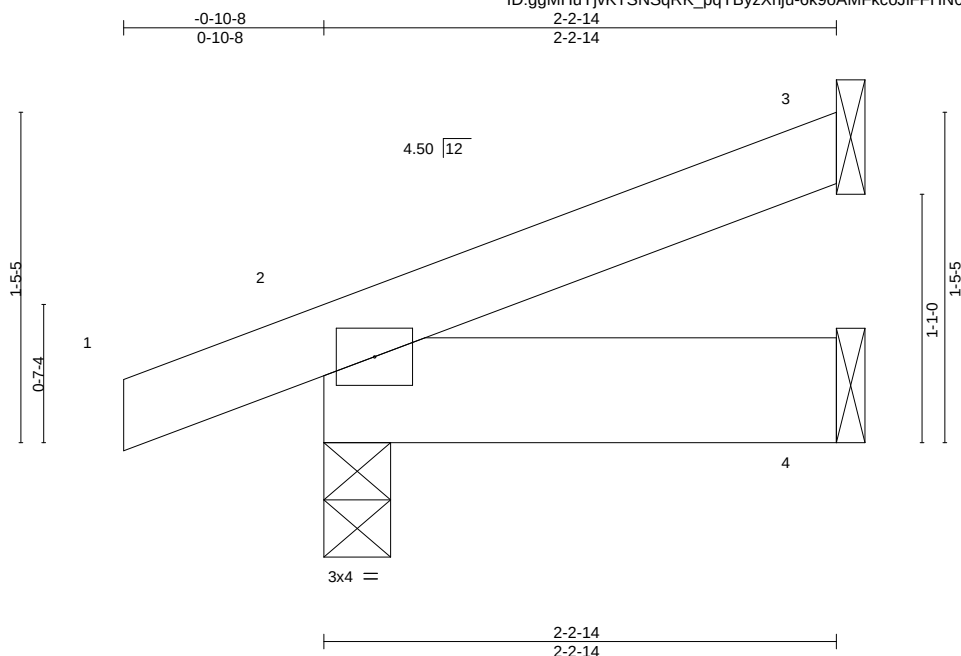
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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Job 2379052	Truss J15	Truss Type Jack-Open	Qty 2	Ply 1	Summit/63 Hawthorn Ridge I41748614
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:30 2020 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.05	in (loc)	l/defl	L/d			
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.02	Vert(LL)	-0.00 7 >999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.00 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/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 2-2-14 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=32(LC 8)
Max Uplift 3=-13(LC 12), 2=-23(LC 8)
Max Grav 3=53(LC 17), 2=172(LC 17), 4=44(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.



June 22, 2020

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

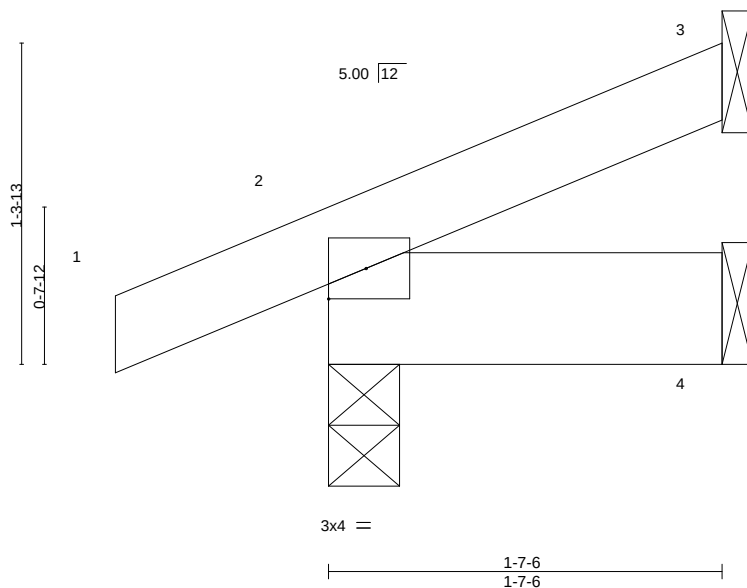
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Job 2379052	Truss J16	Truss Type Jack-Open	Qty 1	Ply 1	Summit/63 Hawthorn Ridge I41748615
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:31 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-bwiBOiGMN5RZtPsZaqRx48mb1ggLhq1aTx9Xz3jRs

0-10-8 1-7-6
0-10-8 1-7-6

Scale = 1:9.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.05	Vert(LL)	-0.00	7	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT)	-0.00	7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	2	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TP12014						Weight: 6 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 1-7-6 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=24(LC 12)
Max Uplift 3=-10(LC 12), 2=-14(LC 8)
Max Grav 3=37(LC 2), 2=150(LC 2), 4=31(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.



June 22 2020

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LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

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Chesterfield, MO 63017

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Job 2379052	Truss J17	Truss Type Jack-Open	Qty 3	Ply 1	Summit/63 Hawthorn Ridge Job Reference (optional)	I41748616
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:31 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-bwiBOiGMN5RZtPsZaqRx48mYsldWLhqq1aTx9Xz3jRs

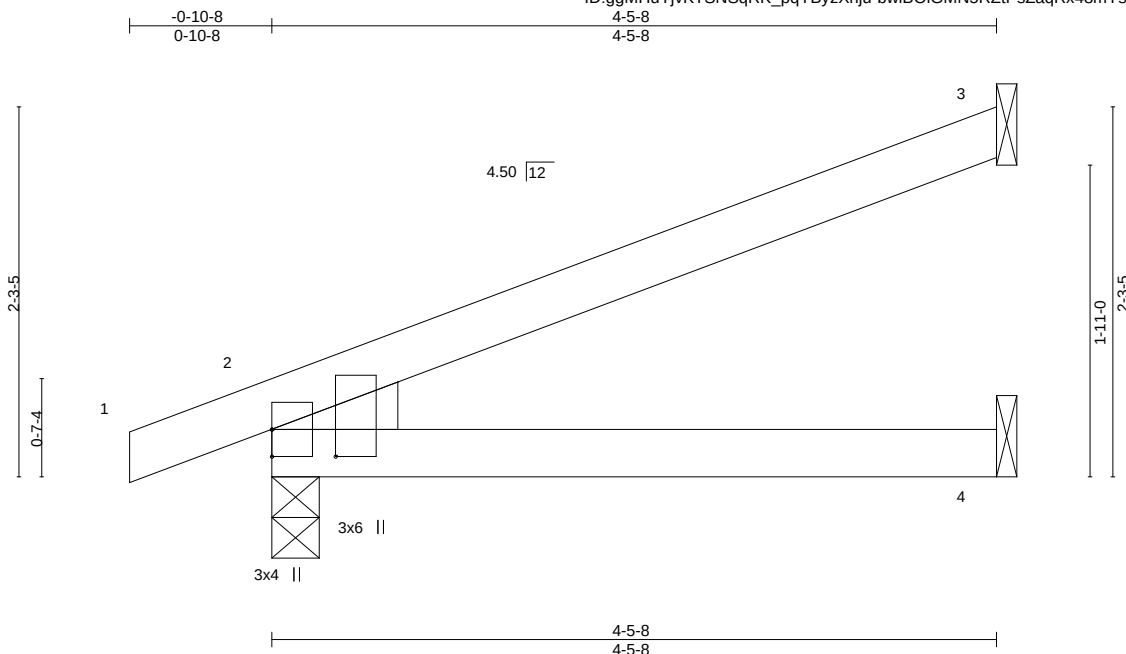


Plate Offsets (X,Y)-- [2:0-2-0,0-4-11]

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 0.25	Vert(LL)	-0.02	4-7	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.04	4-7	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-AS							
BCDL 10.0									Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEDGE
Left: 2x4 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=52(LC 8)
Max Uplift 3=-29(LC 12), 2=-21(LC 8)
Max Grav 3=141(LC 17), 2=284(LC 17), 4=79(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) 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) 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.



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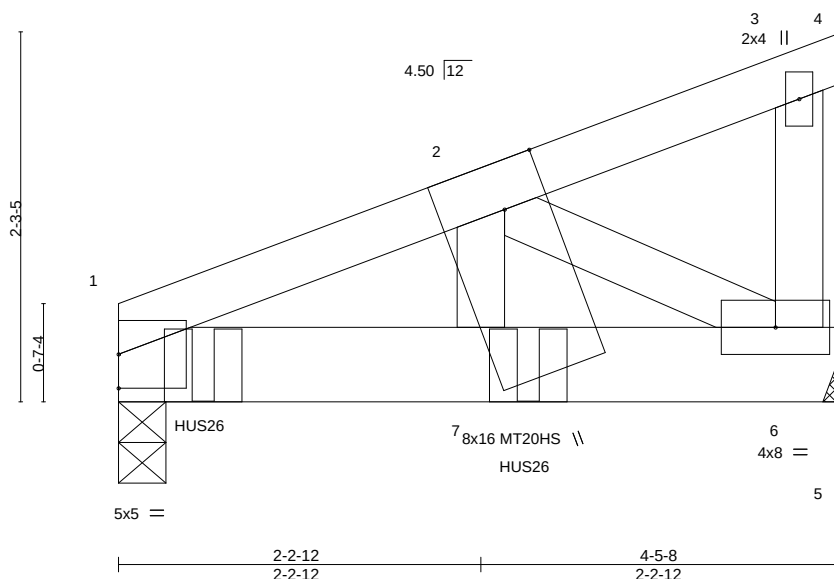
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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Job 2379052	Truss J18	Truss Type Jack-Closed Girder	Qty 1	Ply 1	Summit/63 Hawthorn Ridge I41748617
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

2-2-12 2-2-12 4-5-8 2-2-12



Scale = 1:14.2

Plate Offsets (X,Y)-- [7:0-0-10,0-1-10], [7:0-3-8,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	0.21	Vert(LL)	-0.01	7	>999	240		MT20	197/144		
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.02	7	>999	180		MT20HS	148/108		
TCDL	10.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.01	6	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 2x6 SP 2400F 2.0E
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 6=Mechanical
Max Horz 1=54(LC 11)
Max Uplift 1=-74(LC 12), 6=-46(LC 12)
Max Grav 1=2616(LC 2), 6=1335(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2150/62
BOT CHORD 1-7=-70/2006, 6-7=-70/2006
WEBS 2-7=-31/1678, 2-6=-2278/83

- 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.
 - 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.
 - 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.
 - Use Simpson Strong-Tie HUS26 (14-16d Girder, 6-16d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-6-4 from the left end to 2-6-4 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-51, 3-4=-51, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-1784(B) 10=-1400(B)



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AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

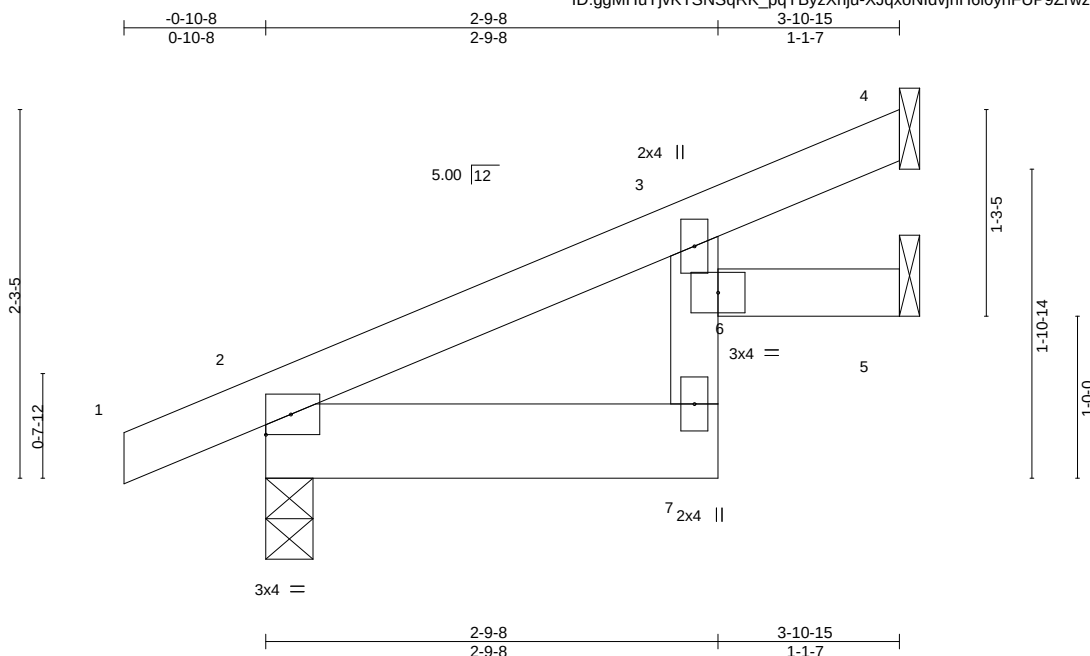
Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	J19	Jack-Open	2	1	I41748618

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:33 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-XJqxoNldvjH6i0yhFUP9Zrwz6JcpbJ7Uty2EQz3jRq



Scale = 1:14.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.09	Vert(LL)	-0.01	7	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.17	Vert(CT)	-0.01	7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	5	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MR						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-7: 2x6 SPF No.2

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=48(LC 12)
Max Uplift 4=-14(LC 12), 2=-6(LC 8), 5=-6(LC 12)
Max Grav 4=87(LC 17), 2=260(LC 17), 5=91(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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 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.



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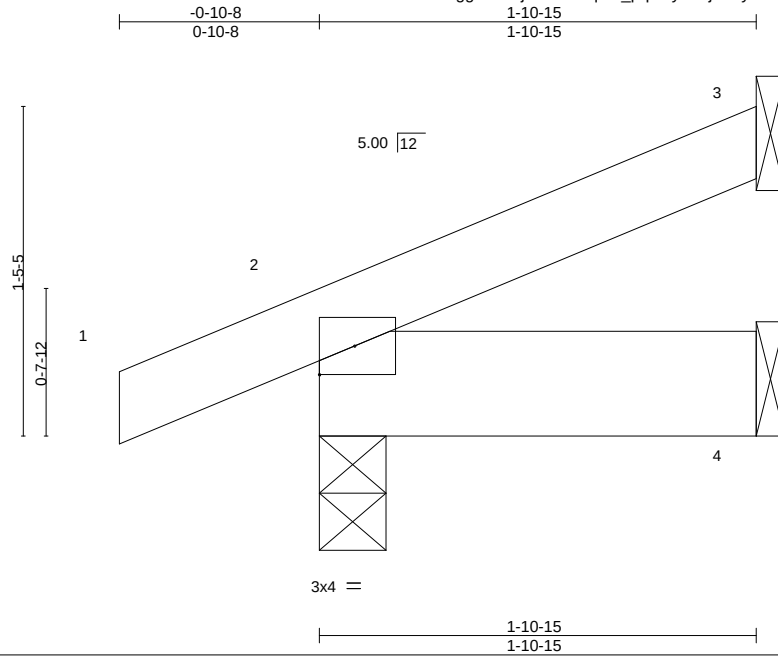
Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748619
2379052	J20	Jack-Open	2	1		

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:35 2020 Page 1

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Scale = 1:10.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.05	Vert(LL)	-0.00	7	>999	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT)	-0.00	7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	2	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 7 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 1-10-15 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=28(LC 12)
Max Uplift 3=-12(LC 12), 2=-13(LC 8)
Max Grav 3=47(LC 17), 2=162(LC 17), 4=38(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=1.00; 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.



June 22, 2020

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Job 2379052	Truss J21	Truss Type Jack-Open	Qty 3	Ply 1	Summit/63 Hawthorn Ridge I41748620
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:36 2020 Page 1
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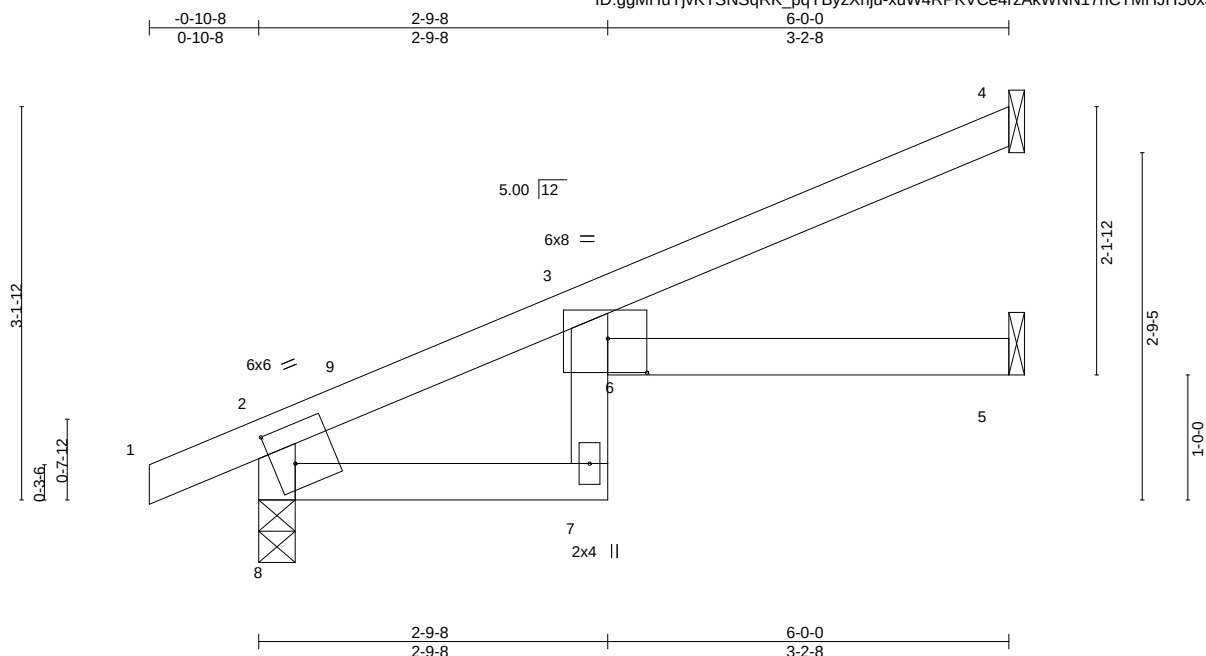


Plate Offsets (X,Y)-- [2:0-1-14,0-0-0], [2:0-2-1,0-3-10], [3:0-1-12,0-0-12], [3:0-3-12,0-3-4], [6:0-0-0,0-1-12], [8:0-0-11,0-1-10]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.08	5-6	>908	240	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.13	5-6	>532	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	5	n/a	n/a		
BCLL	0.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 17 lb	FT = 20%
BCDL	10.0											

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=Mechanical, 5=Mechanical, 8=0-3-8
Max Horz 8=68(LC 12)
Max Uplift 4=-33(LC 12), 8=-7(LC 12)
Max Grav 4=180(LC 17), 5=97(LC 7), 8=338(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-317/24, 2-3=-307/0

- 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) 8 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) 4, 8.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



June 22, 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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.

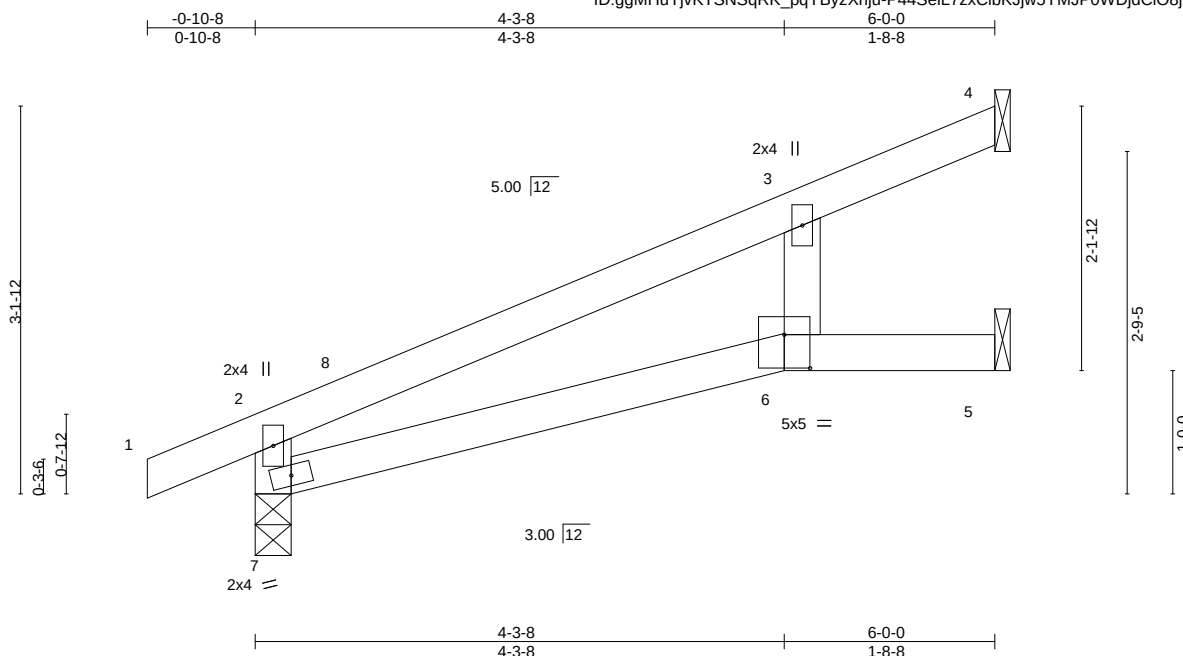
Job 2379052	Truss J22	Truss Type Jack-Open	Qty 11	Ply 1	Summit/63 Hawthorn Ridge I41748621
Job Reference (optional)					

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:37 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-P44SeIL7zxCibKJw5YMJP0WDjdC108jPVwGNBz3jRm



Scale = 1:18.7

Plate Offsets (X,Y)-- 6:0-2-8,0-3-4

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 0.45	Vert(LL)	-0.08	6-7	>824	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.15	6-7	>476	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.04	4	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) 4=Mechanical, 5=Mechanical, 7=0-3-8
Max Horz 7=67(LC 12)
Max Uplift 4=-19(LC 12), 5=-13(LC 12), 7=-6(LC 12)
Max Grav 4=155(LC 17), 5=121(LC 17), 7=338(LC 2)

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

TOP CHORD 2-7=-265/23

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) 4, 5, 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.



June 22 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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.

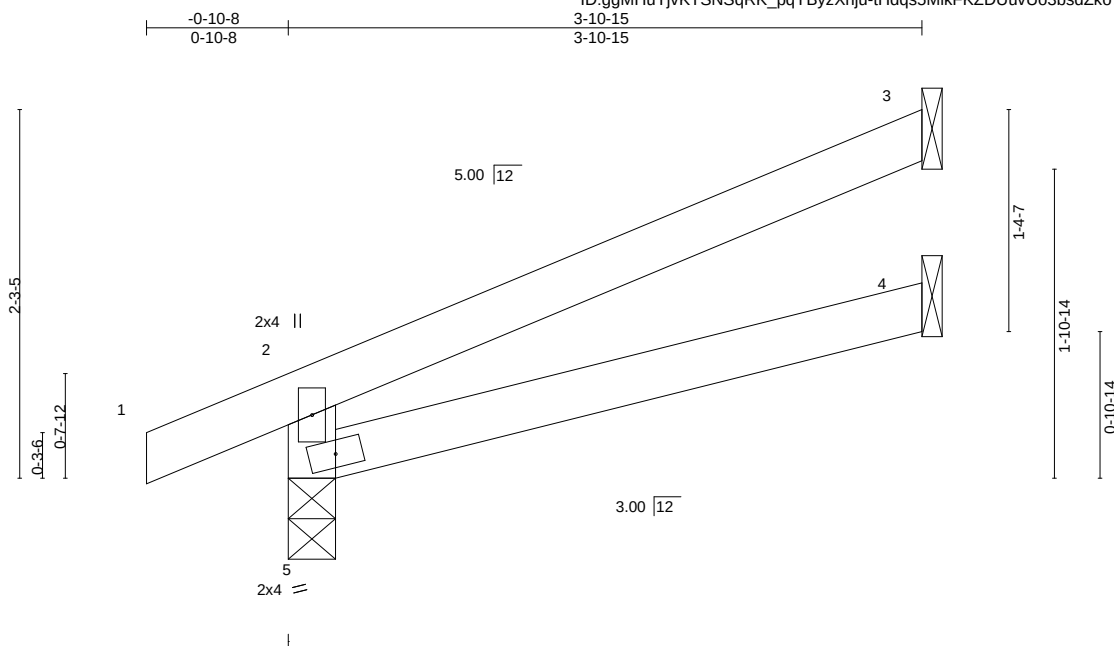
Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748622
2379052	J23	Jack-Open	2	1		

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:38 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-tHdqs5MikFKZDUuvUo3bsdZko71bUrZse9fpvdz3jRl



Scale = 1:14.2

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.21	in (loc)	l/defl	L/d	MT20	197/144	
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.12	Vert(LL)	-0.01 4-5 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.02 4-5 >999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-MR		Horz(CT)	0.01 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 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=45(LC 12)
Max Uplift 3=-30(LC 12), 5=-9(LC 8)
Max Grav 3=124(LC 17), 4=69(LC 7), 5=267(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.



June 22, 2020

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

16023 Swingley Ridge Rd

Chesterfield, MO 63017

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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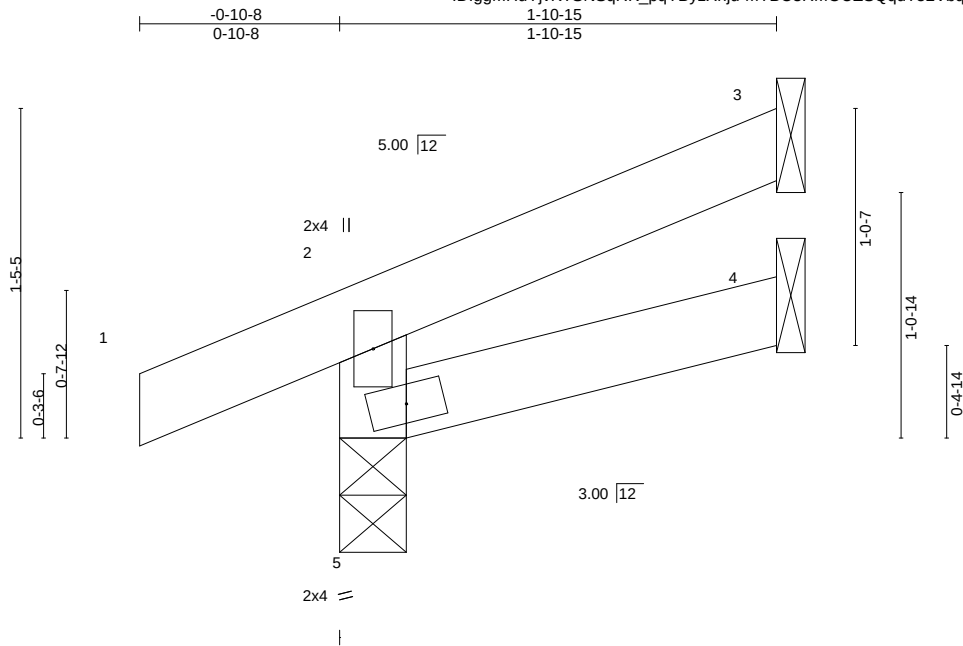
Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge
2379052	J24	Jack-Open	2	1	I41748623
Job Reference (optional)					

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:39 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-MTBC3RMOUZSQqdT52VbqPq5xkXOMDio0tpPMR4z3jRk



Scale = 1:10.1

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	2-0-0		TC	0.07	in (loc)	l/defl	L/d			
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.02	Vert(LL)	-0.00 5 >999	240	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	WB	0.00	Vert(CT)	-0.00 5 >999	180			
BCLL	0.0	Rep Stress Incr	YES	Matrix-MR		Horz(CT)	-0.00 3 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014							Weight: 6 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 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

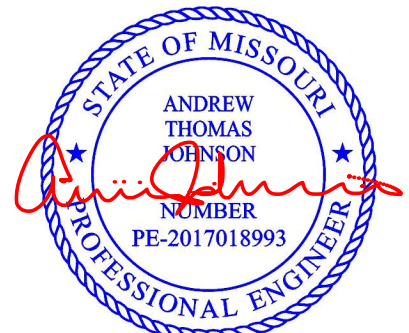
REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=27(LC 9)
Max Uplift 3=-15(LC 12), 5=-16(LC 8)
Max Grav 3=45(LC 17), 4=31(LC 7), 5=172(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.



June 22 2020

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

16023 Swingley Ridge Rd
Chesterfield, MO 63017

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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Job 2379052	Truss LG1	Truss Type GABLE	Qty 1	Ply 1	Summit/63 Hawthorn Ridge I41748624
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:49 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-3Oo_9rUf8dj?1AE0dcmApXWgUzPzpiUANquoVz3jRa

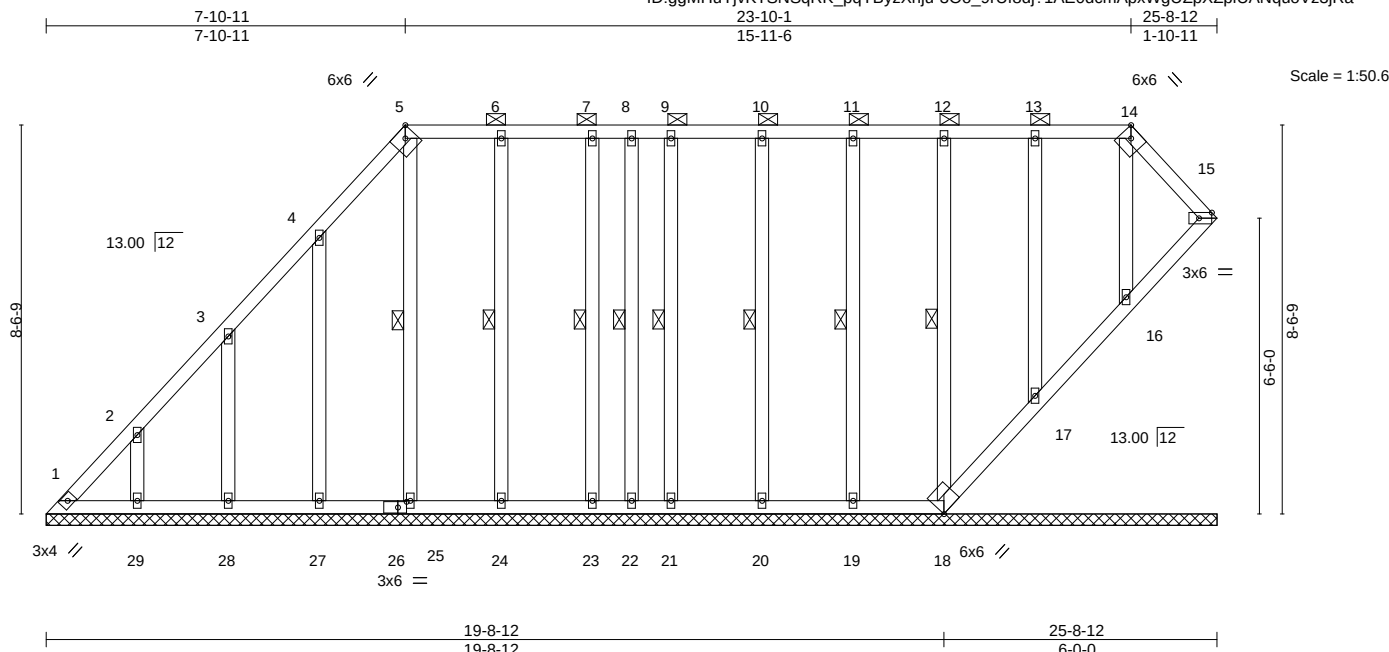


Plate Offsets (X,Y)-- [5:0-2-9,Edge], [14:0-2-9,Edge], [15:Edge,0-1-8], [26:0-2-5,0-1-8]		19-8-12 19-8-12		25-8-12 6-0-0	
LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.03
TCDL	10.0	Rep Stress Incr	YES	WB	0.10
BCLL	0.0	Code IRC2018/TPI2014		Matrix-S	
BCDL	10.0				
				DEFL.	
				in (loc)	l/defl L/d
				Vert(LL)	n/a - n/a 999
				Vert(CT)	n/a - n/a 999
				Horz(CT)	-0.00 15 n/a n/a
				PLATES	GRIP
				MT20	197/144
				Weight: 163 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.): 5-14.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-22, 12-18, 11-19, 10-20, 9-21, 5-25, 6-24, 7-23

REACTIONS. All bearings 25-8-12.
(lb) - Max Horz 1=180(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 22, 16, 17, 18, 19, 20, 21, 29, 28, 27, 24, 23
Max Grav All reactions 250 lb or less at joint(s) 1, 15, 22, 16, 17, 18, 19, 20, 21, 29, 28, 27, 25, 24, 23

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, 15, 22, 16, 17, 18, 19, 20, 21, 29, 28, 27, 24, 23.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15, 16, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 22 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

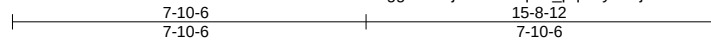
MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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Job 2379052	Truss LG2	Truss Type GABLE	Qty 1	Ply 1	Summit/63 Hawthorn Ridge I41748625
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:51 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-?nwkaXWvgFzjHUOP1oeuMb00MU61ikndhJ?sNz3jRY



4x4 =

Scale = 1:51.2

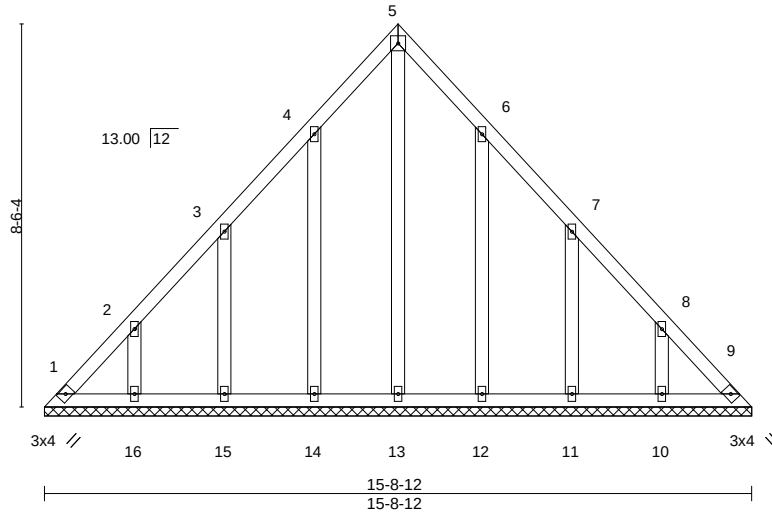


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0]

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 0.05	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 0.13	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 15-8-12.
(lb) - Max Horz 1=-157(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 10, 11, 12, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 10, 11, 12, 16, 15, 14

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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, 10, 11, 12, 16, 15, 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 22, 2020
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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.

AS NOTED ON PLANS REVIEW

**CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI**

MiTek®
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2379052	Truss LG3	Truss Type GABLE	Qty 1	Ply 1	Summit/63 Hawthorn Ridge I41748626
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:52 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-TzU7otXYRY5audybJkTQa8AqmpgmALwsL2YPpz3jRX

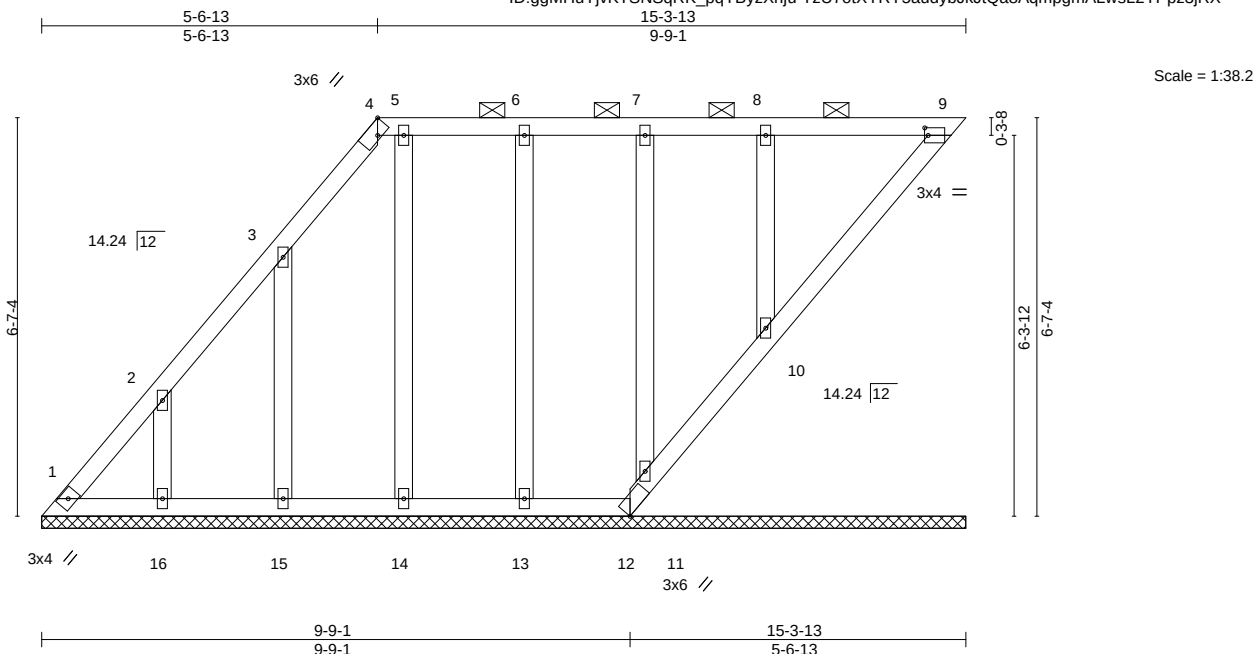


Plate Offsets (X,Y)-- [4:0-2-11,Edge], [9:0-0-11,0-1-8]

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 0.11	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	9	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-S						Weight: 72 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.): 4-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-3-13.
(lb) - Max Horz 1=162(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 16, 15, 13, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12, 16, 15, 14, 13, 11 except 10=286(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=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, 16, 15, 13, 11, 10.
 - 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.



June 22, 2020
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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.

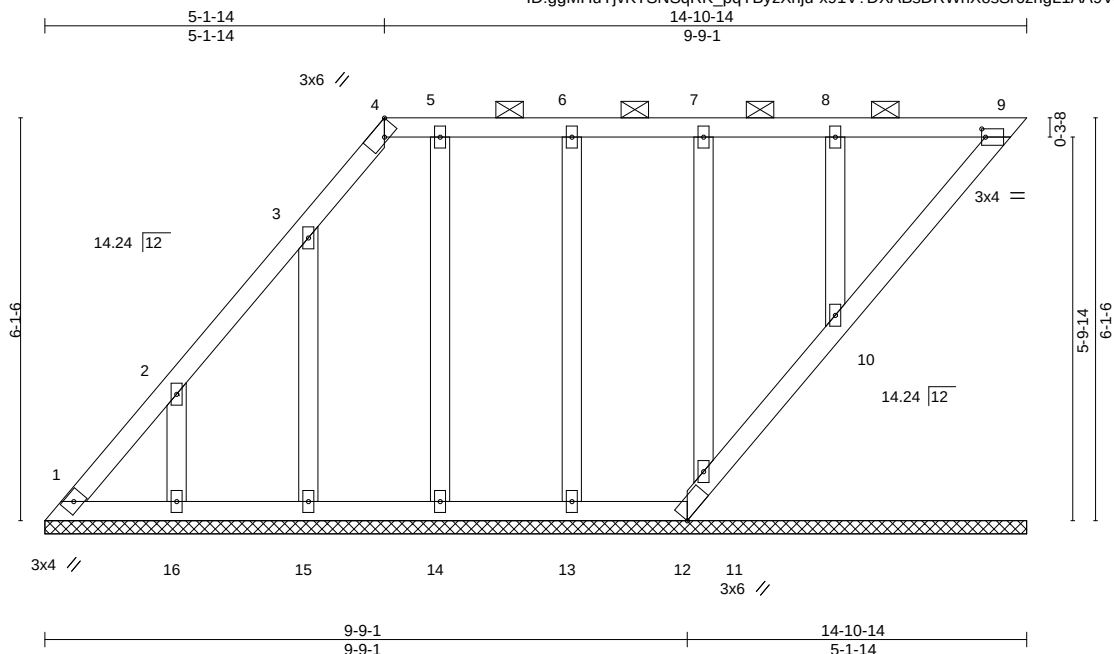
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI
MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2379052	Truss LG4	Truss Type GABLE	Qty 1	Ply 1	Summit/63 Hawthorn Ridge Job Reference (optional)	I41748627
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:53 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-x91V?DXABsDRWnXosSr6zngL1AA9Vcu45?o6xGz3jRW



Scale = 1:35.0

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

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 0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.00	9	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-S						Weight: 68 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.): 4-9.
BOT CHORD Rigid ceiling directly applied or 10'-0'-0 oc bracing.

REACTIONS. All bearings 14-10-14.
(lb) - Max Horz 1=150(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 16, 15, 14, 13, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12, 16, 15, 14, 13, 11 except 10=253(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=20.4 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, 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, 16, 15, 14, 13, 11, 10.
 - 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.



June 22, 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

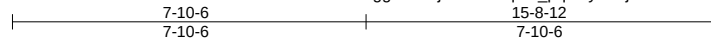
MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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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Job 2379052	Truss LG5	Truss Type GABLE	Qty 1	Ply 1	Summit/63 Hawthorn Ridge I41748628
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:54 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-PMbDZYoyALi8x6_Q9MLW?DWFaWpE2TDKxfTiz3jRV



4x4 =

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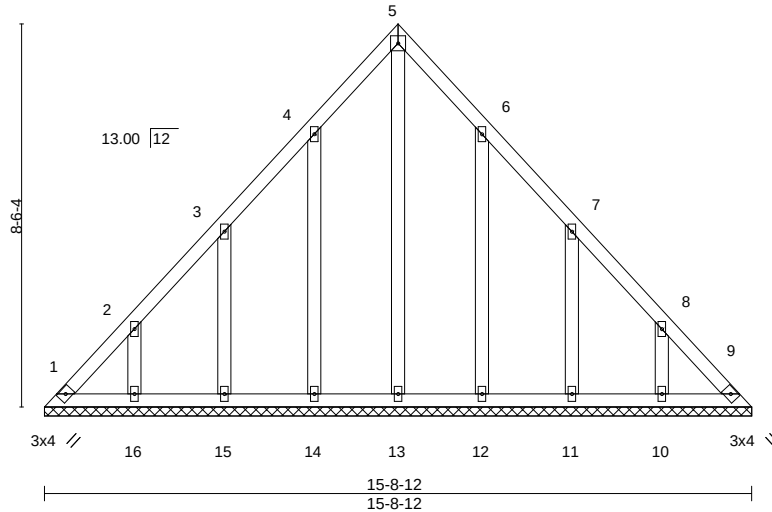


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0]

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 0.05	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 0.13	Horz(CT)	0.00	9	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-S							
BCDL 10.0									Weight: 78 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. All bearings 15-8-12.
(lb) - Max Horz 1=-157(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 10, 11, 12, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 10, 11, 12, 16, 15, 14

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=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, 10, 11, 12, 16, 15, 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 22 2020

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

MiTek

07/21/2020

16023 Swingley Ridge Rd
Chesterfield, MO 63017

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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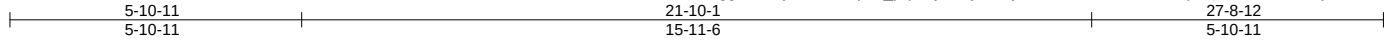
Job	Truss	Truss Type	Qty	Ply	Summit/63 Hawthorn Ridge	I41748629
2379052	LG6	GABLE	1	1		

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Jun 22 13:14:56 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-MkjddFa2Unb0NFGMYaOpbQlskNCJizRWny0mYbz3jRT

Job Reference (optional)



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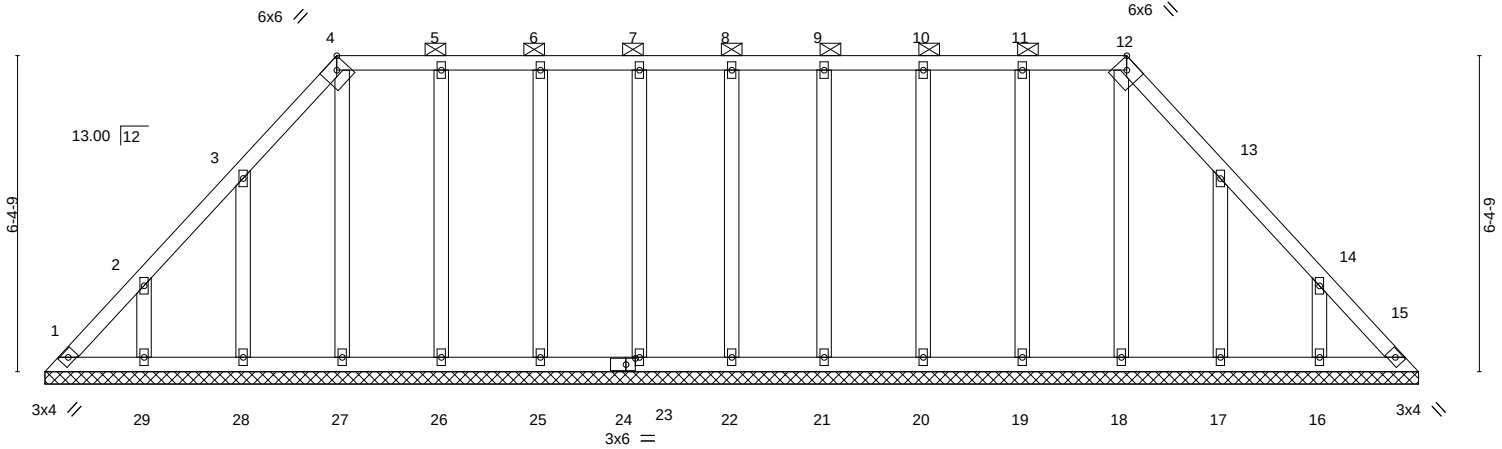


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-2-9,Edge], [12:0-2-9,Edge], [24:0-2-5,0-1-8]

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 0.02	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	15	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-S							
BCDL 10.0									Weight: 140 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.): 4-12.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 27-8-12.
(lb) - Max Horz 1=-116(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 22, 16, 17, 19, 20, 21, 29, 28, 27, 26, 25, 23
Max Grav All reactions 250 lb or less at joint(s) 1, 15, 22, 16, 17, 18, 19, 20, 21, 29, 28, 27, 26, 25, 23

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, 15, 22, 16, 17, 19, 20, 21, 29, 28, 27, 26, 25, 23.
- This truss 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.



June 22, 2020
RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

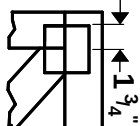
MiTek
07/21/2020
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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

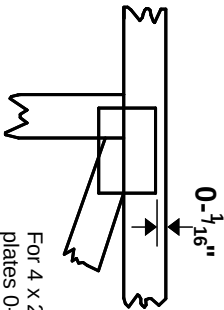
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Symbols

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- 3/16" from outside edge of truss.

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

* Plate location details available in **MiTek 20120** software or upon request.

PLATE SIZE

4 X 4

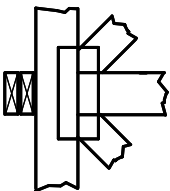
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



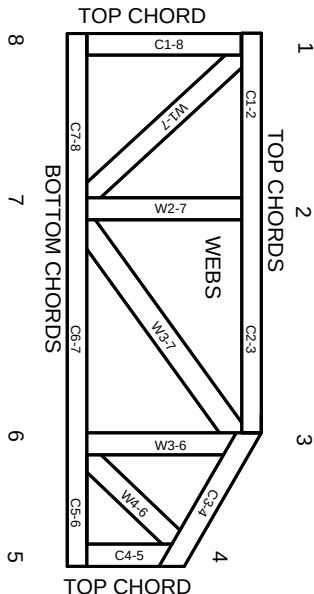
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
CODES ADMINISTRATION
LEE'S SUMMIT, MISSOURI

07/21/2020