



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

01/14/2021

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

Re: 2592336
Summit/16 Woodside/MO

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: I44187958 thru I44188019

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

Missouri COA: Engineering 001193



January 4, 2021

Sevier, Scott ,Engineer

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

Job

2592336

Truss

A1

Truss Type

Roof Special Girder

Summit/16 Woodside/MO

144187958

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

Job Reference (optional)

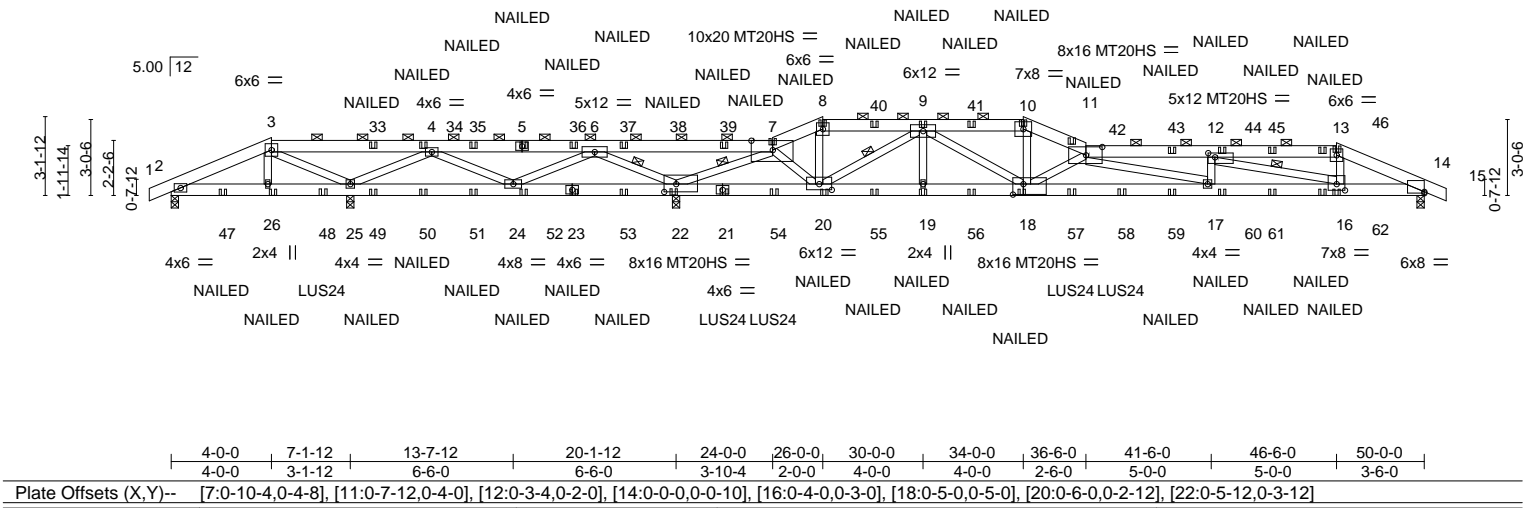
0-10-8 4-0-0 10-4-12 16-10-12 24-0-0 26-0-0 30-0-0 34-0-0 36-6-0 41-6-0 46-6-0 50-0-0 50-10-8

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

01/14/2021

8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:29:40 2020 Page 1

Scale = 1:91.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.45 17-18	>797	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-1.00 17-18	>359	180	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85	Horz(CT)	0.08 14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS					Weight: 266 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except* 3-5,11-13,5-7: 2x6 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 2-7-8 oc purlins, except 2-0-0 oc purlins (2-8-5 max.): 3-7, 8-10, 11-13.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 18-21: 2x6 SPF 2100F 1.8E, 21-23: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 24-25,20-22 2-11-8 oc bracing: 22-24.
WEBS 2x4 SPF No.2 *Except* 7-22: 2x4 SPF 1650F 1.5E	WEBS 1 Row at midpt 7-22, 9-20, 12-16, 6-22

REACTIONS. All bearings 0-3-8 except (jt=length) 22=0-8-13 (input: 0-3-8).
(lb) - Max Horz 2=26(LC 30)
Max Uplift All uplift 100 lb or less at joint(s) 25 except 22=-587(LC 4), 14=-210(LC 9)
Max Grav All reactions 250 lb or less at joint(s) except 2=669(LC 1), 25=801(LC 21), 22=5624(LC 1), 14=2322(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-825/26, 4-6=-328/2335, 6-7=-832/7692, 7-8=-1507/228, 8-9=-1330/210, 9-10=-5944/690, 10-11=-6439/737, 11-12=-8867/890, 12-13=-4467/447, 13-14=-5000/478
BOT CHORD 2-26=-13/742, 25-26=-14/714, 24-25=-687/43, 22-24=-4193/445, 20-22=-945/91, 19-20=-503/4265, 18-19=-503/4265, 17-18=-1044/9747, 16-17=-853/8865, 14-16=-410/4597
WEBS 3-26=0/349, 3-25=-1066/87, 7-22=-7481/879, 7-20=-317/3082, 9-20=-3495/412, 9-18=-169/2001, 10-18=-194/2028, 11-18=-4493/485, 11-17=-924/210, 12-17=0/682, 12-16=-4590/471, 13-16=-72/1417, 4-25=-176/735, 4-24=-1907/369, 6-24=-87/2117, 6-22=-4095/532

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING:** Required bearing size at joint(s) 22 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25 except (jt=lb) 22=587, 14=210.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- On the graphic representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 4,2021

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>01/14/2021</div> </div>		Ply	Summit/16 Woodside/MO
2592336	A1	Roof Special Girder			1	I44187958
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:29:40 2020 Page 2		Job Reference (optional)	
			ID:ggMHuYjvKTSNSqRK_bqYByzXhju-5aO3JPD21gl38mQy3nt?ynTfLttB6W9FYGAQhy3UaP			

NOTES-

- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 16-0-0 oc max. starting at 6-0-12 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-3=-90, 3-7=-90, 7-8=-90, 8-10=-90, 10-11=-90, 11-13=-90, 13-15=-90, 27-30=-20
 - Concentrated Loads (lb)
 - Vert: 5=-60(B) 8=-90(B) 10=-90(B) 13=-0(B) 23=-27(B) 26=-207(B) 20=-111(B) 19=-111(B) 18=-111(B) 9=-90(B) 16=-126(B) 21=-259(B) 33=-60(B) 34=-60(B) 35=-60(B) 36=-60(B) 37=-60(B) 38=-107(B) 40=-90(B) 41=-90(B) 43=-45(B) 44=-57(B) 45=-57(B) 46=-57(B) 47=-135(B) 48=-215(B) 49=-27(B) 50=-27(B) 51=-27(B) 52=-27(B) 53=-27(B) 54=-214(B) 55=-111(B) 56=-111(B) 57=-214(B) 58=-266(B) 59=-61(B) 60=-41(B) 61=-41(B) 62=-41(B)

Job

2592336

Truss

A2

Truss Type

Roof Special

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

8.240 s Mar 9 2020

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6/14/2021

Ply

1

Summit/16 Woodside/MO

144187959

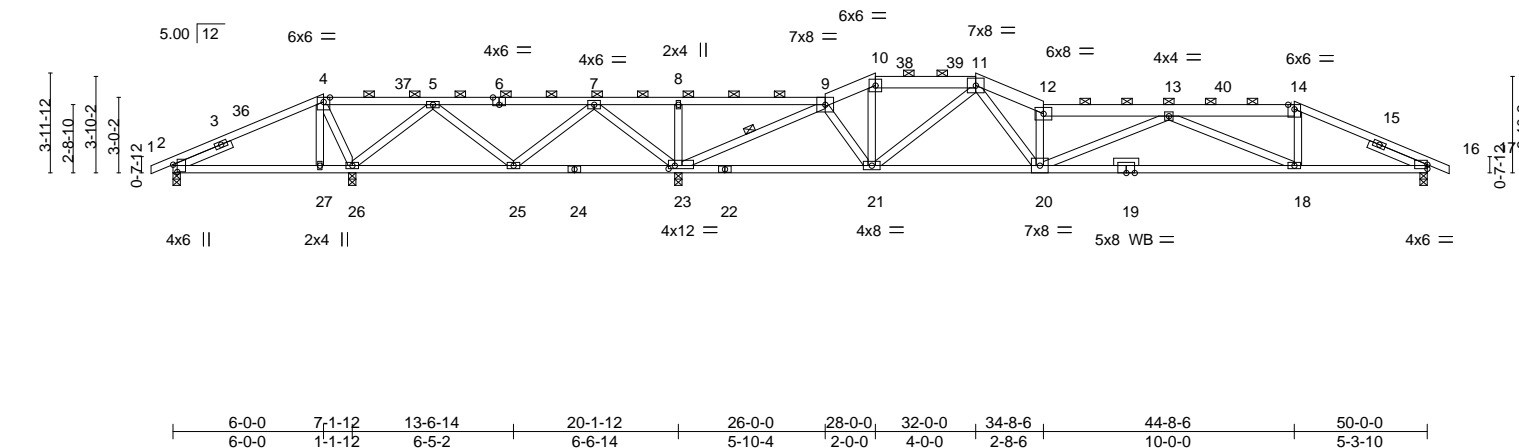
Builders FirstSource (Valley Center), Valley Center, KS - 67147,

Job Reference (optional)

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 = 1:91.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.30 18-20	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.75 18-20	>480	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.08 16	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 207 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except* 1-4,4-6,14-17: 2x4 SPF No.2, 6-9: 2x4 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-8-3 max.): 4-9, 10-11, 12-14.
BOT CHORD 2x4 SPF 1650F 1.5E *Except* 22-24: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 9-23
OTHERS 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 except (jt=length) 23=0-5-3 (input: 0-3-8).
 (lb) - Max Horz 2=33(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 26, 16
 Max Grav All reactions 250 lb or less at joint(s) except 2=592(LC 1), 26=498(LC 25), 16=1447(LC 1), 23=3327(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-525/133, 4-5=-322/129, 5-7=-7/739, 7-8=-174/2880, 8-9=-174/2880, 9-10=-1107/149, 10-11=-975/149, 11-12=-3579/302, 12-13=-3387/268, 13-14=-2293/200, 14-16=-2576/190
 BOT CHORD 2-27=-65/477, 26-27=-65/469, 25-26=-102/338, 23-25=-1521/123, 21-23=-32/505, 20-21=-106/1950, 18-20=-264/3502, 16-18=-114/2327
 WEBS 4-26=-427/57, 9-23=-3675/320, 9-21=0/1026, 11-21=-1304/103, 11-20=-120/2274, 12-20=-1605/177, 13-18=-1336/171, 14-18=0/701, 8-23=-441/78, 5-26=-113/470, 5-25=-971/161, 7-25=-42/1158, 7-23=-1867/174

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 28-0-0, Exterior(2R) 28-0-0 to 31-0-0, Interior(1) 31-0-0 to 32-0-0, Exterior(2E) 32-0-0 to 34-8-6, Interior(1) 34-8-6 to 44-8-6, Exterior(2R) 44-8-6 to 47-8-6, Interior(1) 47-8-6 to 50-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - WARNING: Required bearing size at joint(s) 23 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 26, 16.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2



January 4,2021

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION		Ply	Summit/16 Woodside/MO
2592336	A2	Roof Special	AS NOTED ON PLANS REVIEW		1	I44187959
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	LEE'S SUMMIT, MISSOURI		8.240 s Mar	Job Reference (optional)
NOTES-		ID:ggMHuYjvKTSNSqRK_pqY		9 2020 MiTek Industries, Inc.	Thu Dec 31 09:30:00 2020	Page 2
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and bottom chord.		01/14/2021		ByzXhju-WQbdWETbJpGDYvJG7G8Zp9cwzPkJtAs5rf6E7Xy3Ua5		
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.						

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job: 2592336

Truss: A3

Truss Type: Roof Special

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

01/14/2021

Ply: 1

Summit/16 Woodside/MO

144187960

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

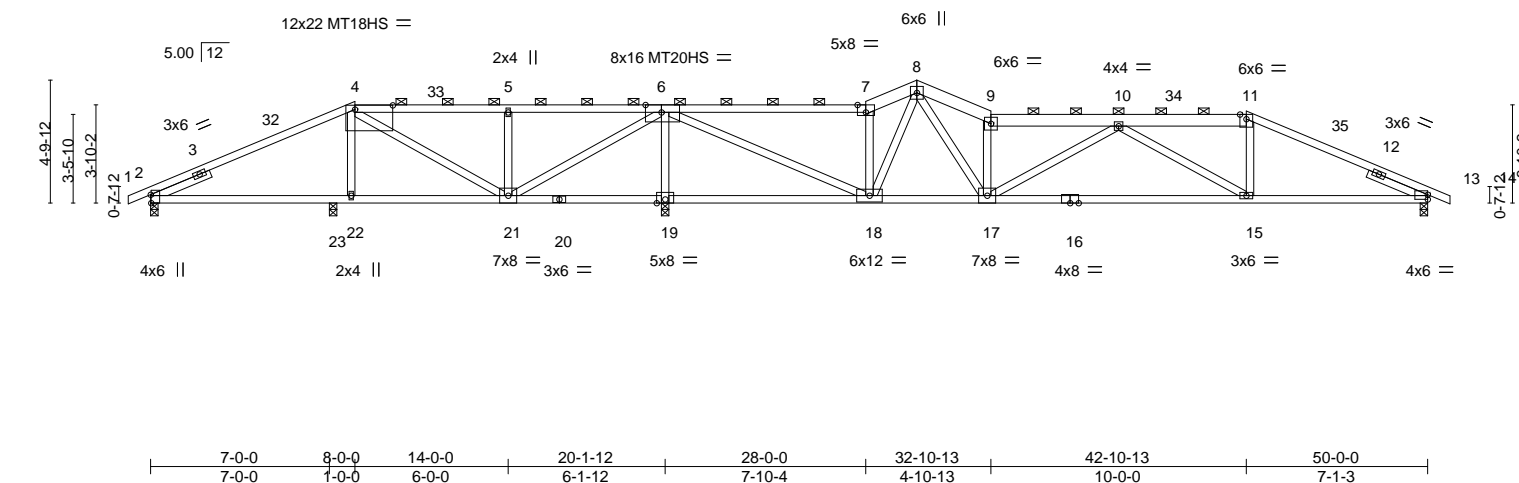
0-10-8 8-0-0 14-0-0 20-1-12 21-4-0 28-0-0 30-0-0 32-10-13 37-10-13 42-10-13 50-0-0 50-10-8

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

8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:02 2020 Page 1

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Scale = 1:90.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.96	Vert(LL)	-0.31 15-17	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-0.75 15-17	>480	180	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.04 13	n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 205 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 7-8,8-9,9-11: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-2-0 max.): 4-7, 9-11.
BOT CHORD 2x4 SPF No.2	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 13)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 13
 Max Grav All reactions 250 lb or less at joint(s) except 2=705(LC 25), 13=1490(LC 1), 23=368(LC 25), 19=3218(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-626/150, 4-5=-206/446, 5-6=-204/445, 6-7=-1387/173, 7-8=-1541/213,
 8-9=-2775/261, 9-10=-2578/222, 10-11=-2295/210, 11-13=-2512/197
 BOT CHORD 2-23=-82/580, 22-23=-82/580, 21-22=-84/586, 19-21=-1732/124, 18-19=-1858/135,
 17-18=-40/1424, 15-17=-193/2907, 13-15=-103/2313
 WEBS 4-21=-706/100, 5-21=-481/101, 6-21=-122/1847, 7-18=-1119/195, 8-18=-437/89,
 8-17=-133/2057, 9-17=-1381/170, 10-17=-464/90, 10-15=-723/109, 11-15=0/573,
 6-18=-213/3539, 6-19=-3058/274

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 30-0-0, Exterior(2E) 30-0-0 to 32-10-13, Interior(1) 32-10-13 to 42-10-13, Exterior(2R) 42-10-13 to 45-10-13, Interior(1) 45-10-13 to 50-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 19 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 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.



Job

2592336

Truss

A4

Truss Type

Roof Special

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

8,240 s

Mar 9 2020

MITek Industries, Inc.

Thu Dec 31 09:30:03 2020

Page 1

Summit/16 Woodside/MO

144187961

Job Reference (optional)

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-w?Hl8GVtckeoPN2qoPhGQoEPicl44ZKXXdKuksy3Ua2

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

-0-10-8

5-1-12

10-0-0

12-9-1

17-8-3

20-1-12

25-1-12

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

2-5-9

5-0-0

4-10-4

1-1-3

5-0-0

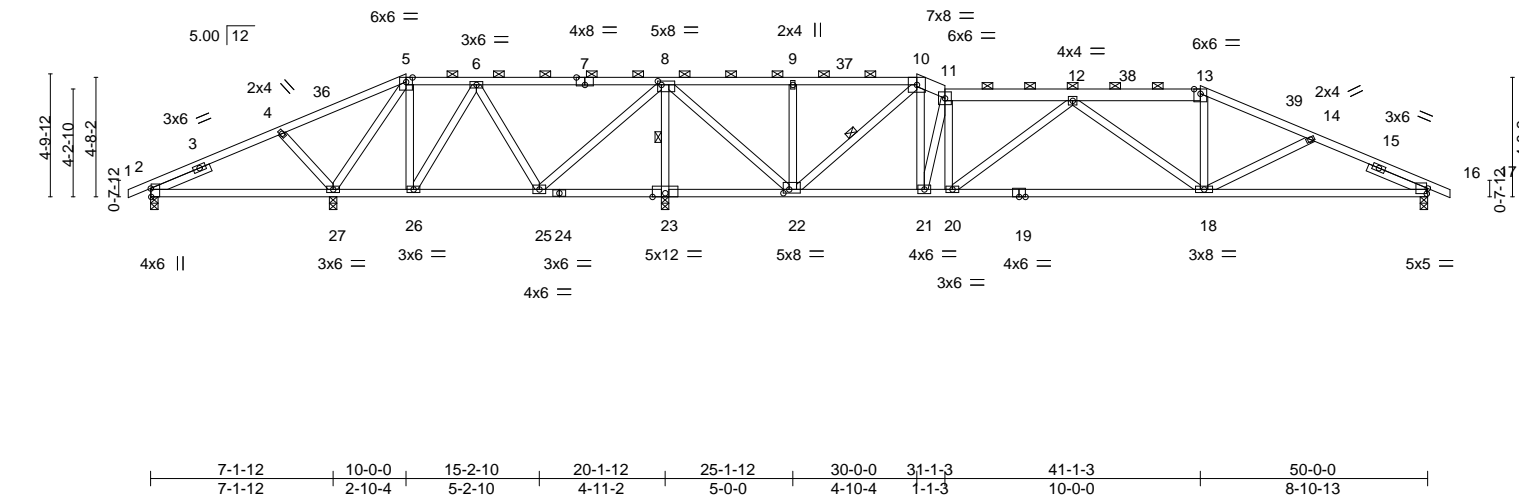
5-0-0

4-3-10

4-7-2

0-10-8

Scale = 1:90.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.21	18-20	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.52	18-20	>691	180	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.05	16	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 223 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 10-11,11-13: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-0-6 max.): 5-10, 11-13.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 8-23, 10-22
SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0	

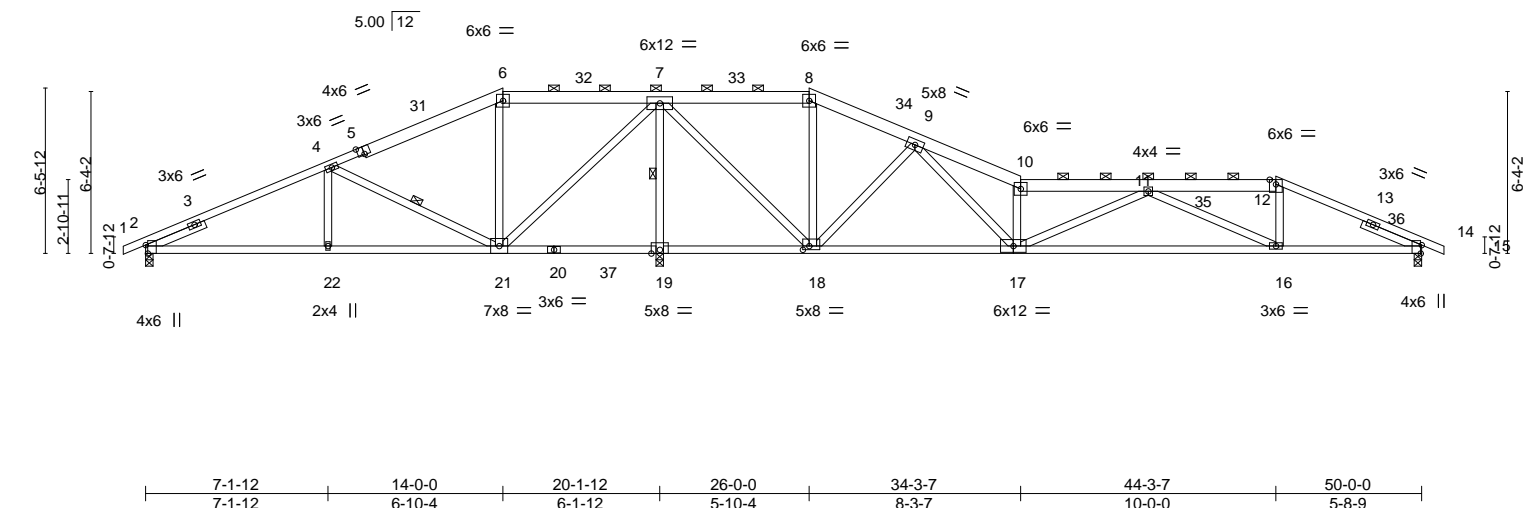
REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=42(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 16, 23
 Max Grav All reactions 250 lb or less at joint(s) except 2=402(LC 25), 27=809(LC 25), 16=1460(LC 26), 23=3167(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-502/88, 4-5=-21/300, 6-8=-4/722, 10-11=-1446/178, 11-12=-1711/164, 12-13=-2052/190, 13-14=-2271/185, 14-16=-2526/217
 BOT CHORD 25-26=-298/92, 23-25=-1685/177, 22-23=-1685/177, 21-22=-33/1316, 20-21=-39/1684, 18-20=-119/2237, 16-18=-141/2278
 WEBS 4-27=-523/121, 5-27=-338/49, 10-21=-69/1280, 11-21=-1367/29, 11-20=0/687, 12-20=-675/106, 13-18=0/460, 6-26=0/259, 6-25=-885/111, 8-25=-46/1309, 8-23=-3057/242, 8-22=-155/2387, 9-22=-395/85, 10-22=-1623/127

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 12-9-1, Interior(1) 12-9-1 to 30-0-0, Exterior(2E) 30-0-0 to 31-1-3, Interior(1) 31-1-3 to 41-1-3, Exterior(2R) 41-1-3 to 44-1-3, Interior(1) 44-1-3 to 50-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 23 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, 27, 16, 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.
 - 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.



January 4,2021



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.32 16-17 >999 240	MT20		197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.71 16-17 >506 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.03 2 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							
								Weight: 229 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 (4-7-13 max.): 6-8, 10-12.
BOT CHORD	2x4 SPF No.2 *Except* 2-20,14-17: 2x4 SPF 1650F 1.5E	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 4-21, 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, 14=0-3-8, 19=0-3-8
Max Horz 2=-57(LC 13)
Max Uplift 2=-57(LC 12), 14=-32(LC 13)
Max Grav 2=788(LC 25), 14=1312(LC 28), 19=3951(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-880/377, 4-6=-28/973, 6-7=0/850, 7-8=0/422, 8-9=0/510, 9-10=-2357/239,
10-11=-2266/204, 11-12=-2043/189, 12-14=-2293/170
BOT CHORD 2-22=-286/812, 21-22=-286/812, 19-21=-2151/172, 18-19=-2151/172, 17-18=-31/635,
16-17=-203/2703, 14-16=-98/2069
WEBS 4-22=0/304, 4-21=-1104/108, 6-21=-775/112, 7-21=-110/2053, 7-19=-3705/287,
7-18=-132/2464, 8-18=-523/70, 9-18=-1428/157, 9-17=-111/2317, 10-17=-1244/160,
11-17=-546/109, 11-16=-799/129, 12-16=0/610

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 26-0-0, Exterior(2R) 26-0-0 to 29-0-0, Interior(1) 29-0-0 to 44-3-7, Exterior(2R) 44-3-7 to 47-3-7, Interior(1) 47-3-7 to 50-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 19 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, 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.



Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>01/14/2021</div> </div>		Ply	Summit/16 Woodside/MO
2592336	A7	ROOF SPECIAL			1	I44187964
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			Job Reference (optional)	

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:09 2020 Page 2

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NOTES-

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27 except (jt=lb) 2=491, 16=187.
- This truss 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 LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 40-0-12 from the left end to connect truss(es) to front face of bottom chord, 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 209 lb down and 121 lb up at 46-1-1 on top chord, and 187 lb down and 29 lb up at 45-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-8=-90, 8-9=-90, 9-11=-90, 11-15=-90, 15-17=-90, 33-34=-20, 31-32=-20, 30-38=-20

Concentrated Loads (lb)

Vert: 15=-91(F) 18=-187(F) 19=-48(F) 14=-76(F) 41=-76(F) 42=-653(F) 43=-48(F)

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd

Chesterfield, MO 63017

Scale = 1:72.8

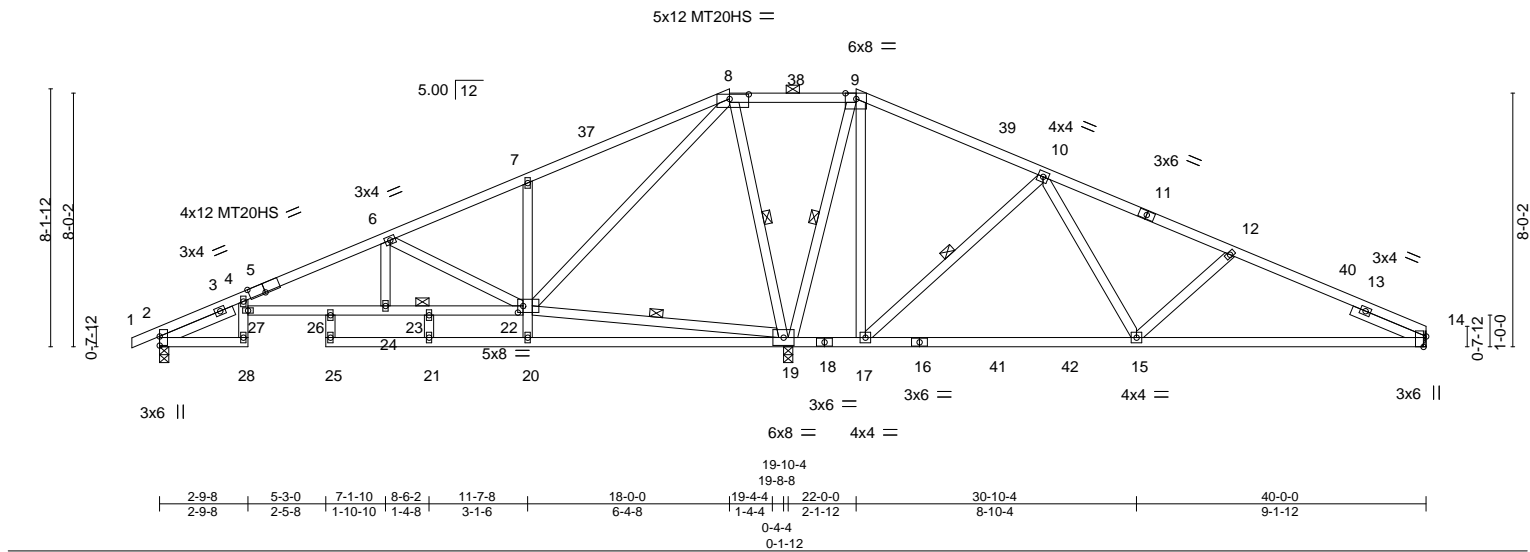


Plate Offsets (X,Y)-- [5:0-6-0,Edge], [8:0-7-4,0-1-12], [9:0-4-2,Edge], [14:0-3-15,Edge], [22:0-2-0,0-2-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.28	28	>863	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.53	28	>446	180	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.20	19	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							Weight: 190 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (10-0-0 max.): 8-9.
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
SLIDER	Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0	WEBS	1 Row at midpt 19-22, 10-17, 9-19, 8-19
		JOINTS	1 Brace at Jt(s): 23

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

REACTIONS. (size) 2=0-3-8, 19=0-3-8 (req. 0-6-3), 14=Mechanical
 Max Horz 2=129(LC 12)
 Max Uplift 2=-23(LC 13), 19=-341(LC 12), 14=-154(LC 13)
 Max Grav 2=435(LC 27), 19=3956(LC 2), 14=654(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=553/101, 6-7=179/985, 7-8=86/1016, 8-9=210/2095, 9-10=240/1756,
 10-12=475/934, 12-14=831/702
BOT CHORD 17-19=1590/341, 15-17=1068/311, 14-15=579/757
WEBS 20-22=0/263, 7-22=488/174, 19-22=1706/281, 9-17=76/904, 10-17=1082/205,
 10-15=5/862, 12-15=614/166, 8-22=178/1271, 6-22=991/174, 6-24=0/278,
 9-19=1958/134, 8-19=1700/289

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2E) 18-0-0 to 22-0-0. Exterior(2R) 22-0-0 to 26-2-15, Interior(1) 26-2-15 to 40-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- 8) WARNING: Required bearing size at joint(s) 19 greater than input bearing size.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 19=341, 14=154.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 4, 2021



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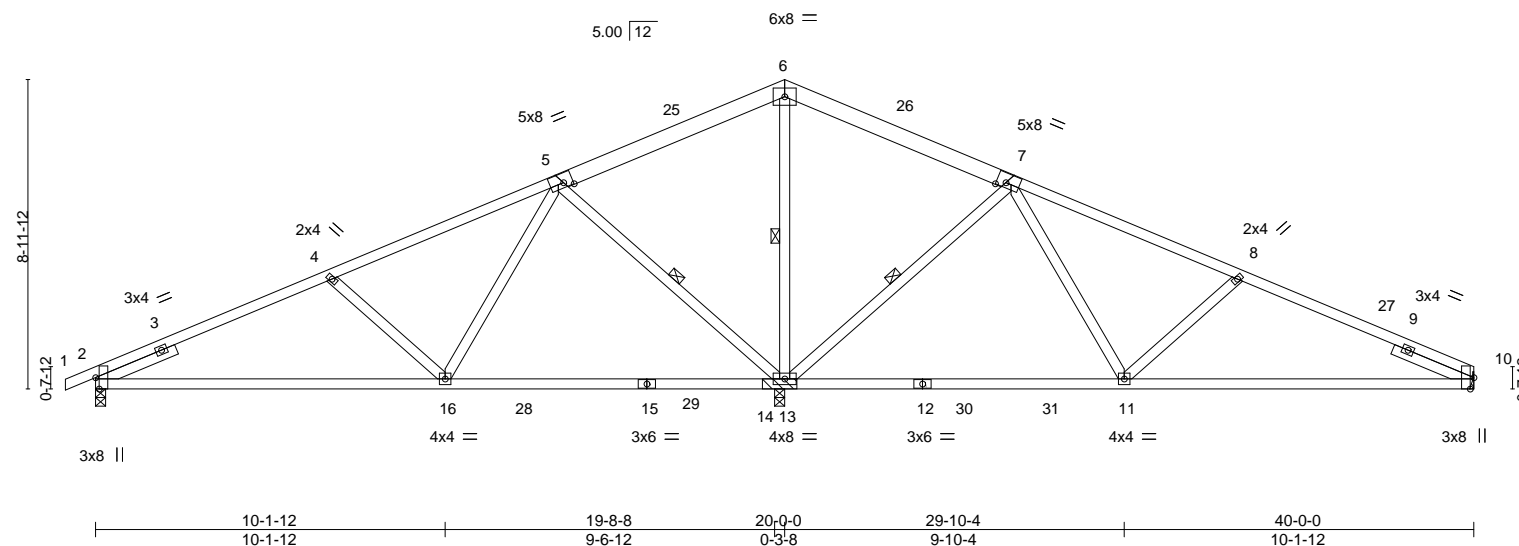
Safety Information available from Truss Plate Institute, 2602 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	Summit/16 Woodside/MO
2592336	A9	Common			1	144187966
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:13 2020 Page 1 ID:ggMHuYjvKTSNSqRKpqYByzXhju-dwtXFhdIFpvNbvplOVscqvFC9e9FQ8F?rAIQ3Hy3UZu			
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			<div style="text-align: center;"> 01/14/2021 </div>			

Scale = 1:66.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.21 13-16	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.34 11-23	>714	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.03 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 167 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SPF No.2 *Except*
 1-5,7-10: 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 SLIDER Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 6-13, 7-13, 5-13

REACTIONS. (size) 2=0-3-8, 13=(0-3-8 + bearing block) (req. 0-4-11), 10=Mechanical
 Max Horz 2=142(LC 12)
 Max Uplift 2=97(LC 12), 13=-159(LC 12), 10=-102(LC 13)
 Max Grav 2=933(LC 25), 13=2989(LC 2), 10=864(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1201/156, 4-5=-848/103, 5-6=-17/873, 6-7=0/873, 7-8=-855/159, 8-10=-1223/210
 BOT CHORD 2-16=-205/1108, 13-16=-99/302, 11-13=-102/307, 10-11=-124/1120
 WEBS 6-13=-1133/99, 7-13=-1150/237, 7-11=-20/892, 8-11=-639/198, 5-13=-1148/239, 5-16=-23/887, 4-16=-633/200

NOTES-

- 2x4 SPF No.2 bearing block 12" long at jt. 13 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 13=159, 10=102.
- This truss 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.



January 4, 2021

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

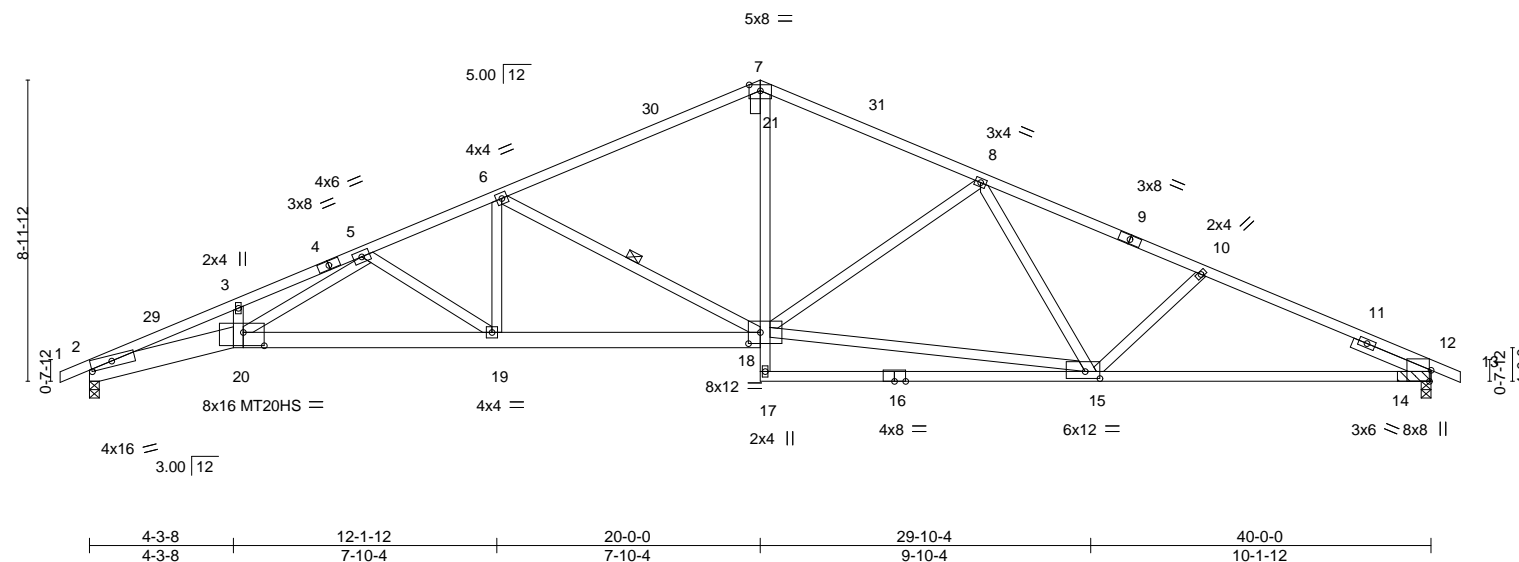
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss A10	Truss Type Roof Special	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply 1 Summit/16 Woodside/MO 144187967
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:ggMHuYjvKTSNSqRK_pqYByzXhju-1yWpk4FIYH?nN8xo4UpL4Nsn88aXf_ARisIHUay3UaN 01/14/2021		
0-10-8 4-3-8 8-3-6 12-1-12 0-10-8 4-3-8 3-11-14 3-10-6			20-0-0 26-6-13 33-1-11 40-0-0 40-10-8 7-10-4 6-6-13 6-6-13 6-10-5 0-10-8		

Scale = 1:68.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.41 15-17 >999	MT20	197/144		
TCDL	20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-1.10 15-17 >435	MT20HS	148/108		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.35 12 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 189 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 1650F 1.5E *Except* 7-9: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SPF 1650F 1.5E *Except* 2-20: 2x8 SP 2400F 2.0E, 18-20: 2x6 SPF 2100F 1.8E 16-17: 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2 *Except* 7-17: 2x4 SPF 1650F 1.5E	WEBS	1 Row at midpt 6-18
SLIDER	Right 2x4 SPF No.2 2-6-0		

REACTIONS.	
(size)	2=0-3-8, 12=(0-3-8 + bearing block) (req. 0-3-9)
Max Horz	2=-138(LC 17)
Max Uplift	2=-177(LC 12), 12=-177(LC 13)
Max Grav	2=2277(LC 1), 12=2277(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-7705/608, 3-5=-7621/665, 5-6=-4842/348, 6-7=-3311/285, 7-8=-3293/289, 8-10=-4021/290, 10-12=-4355/336
BOT CHORD	2-20=-648/7112, 19-20=-431/5241, 18-19=-295/4428, 12-15=-228/3930
WEBS	7-18=-59/1809, 6-19=0/849, 6-18=-1712/253, 15-18=-135/3587, 8-18=-872/227, 8-15=0/310, 10-15=-459/190, 5-20=-252/2177, 5-19=-981/165

- NOTES-**
- 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 12 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) except (jt=lb) 2=177, 12=177.
 - This truss 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.



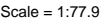
January 4, 2021

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017



NOTES-

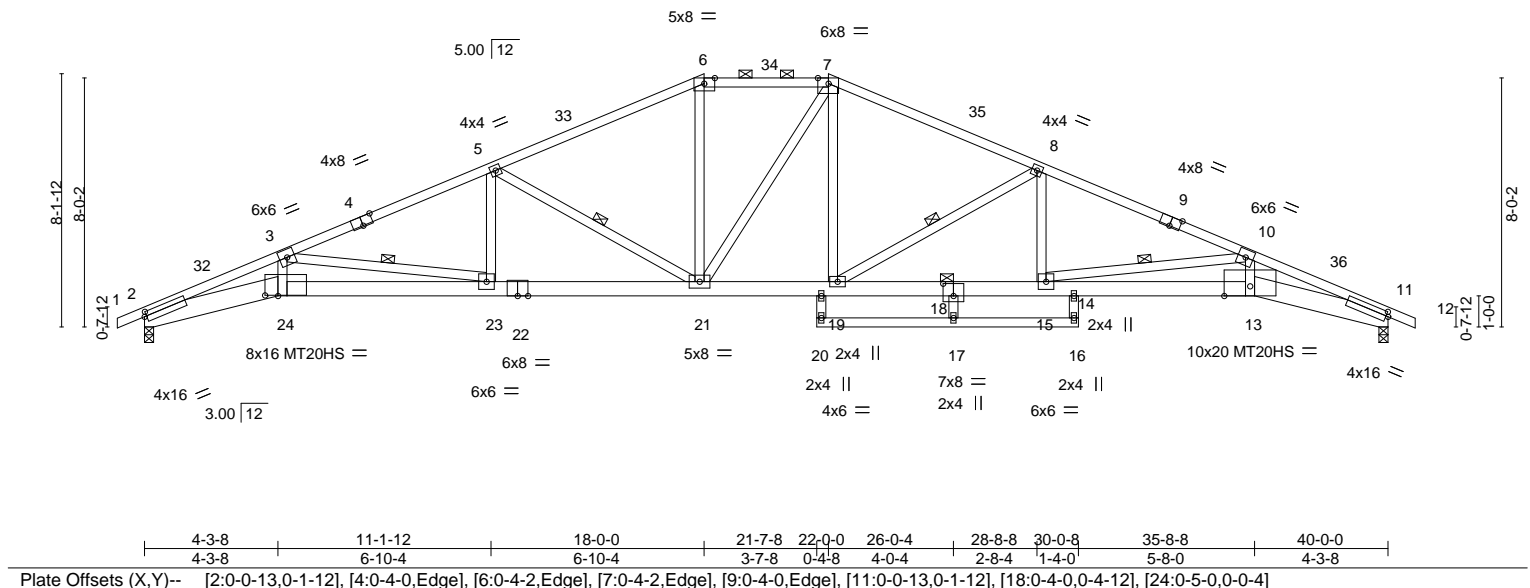
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 40-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=176, 12=176.
- 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.



January 4, 2021

Job	Truss	Truss Type	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Ply	Summit/16 Woodside/MO
2592336	A12	Hip	<div style="text-align: center;"> 01/14/2021 </div>		1	144187969
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8,240 sq ft ID: ggMHuYjvKTSNSqRK_pqYByzXhju-wklKaSlpcWVCsmFZJKtHED1Wglwmbms_1dUjVdLy3UaJ		
Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:29:46 2020 Page 1 Job Reference (optional)						

Scale = 1:74.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.68	20	>707	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-1.69	20	>284	180	MT20HS	148/108
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.50	11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS							
									Weight: 212 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except* 6-7: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-10-14 max.): 6-7.
BOT CHORD 2x4 SPF No.2 *Except* 2-24,11-13: 2x8 SP 2400F 2.0E, 22-24,13-18: 2x6 SPF 2100F 1.8E 18-22: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied. Except: 2-2-0 oc bracing: 18-19 1 Row at midpt 3-23, 5-21, 8-19, 10-15
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt JOINTS 1 Brace at Jt(s): 18

REACTIONS.	(size) 2=0-3-8, 11=0-3-8 Max Horz 2=-123(LC 13) Max Uplift 2=-158(LC 12), 11=-148(LC 13) Max Grav 2=2314(LC 1), 11=2331(LC 1)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-8245/572, 3-5=-5626/305, 5-6=-3789/235, 6-7=-3366/248, 7-8=-3826/213, 8-10=-5336/225, 10-11=-8251/432
BOT CHORD	2-24=-607/7642, 23-24=-596/7539, 21-23=-265/4797, 19-21=0/3399, 18-19=-88/4865, 15-18=-88/4865, 14-15=-344/7545, 13-14=-344/7545, 11-13=-351/7644
WEBS	3-24=-37/1286, 3-23=-2780/335, 5-23=0/721, 5-21=-1632/244, 6-21=-4/931, 10-13=-2/1247, 17-18=0/359, 7-19=0/1002, 7-21=-320/194, 8-19=-1671/204, 8-15=0/787, 10-15=-2716/280

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 18-0-0, Exterior(2E) 18-0-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-2-15, Interior(1) 26-2-15 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=158, 11=148.
 - This truss 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.



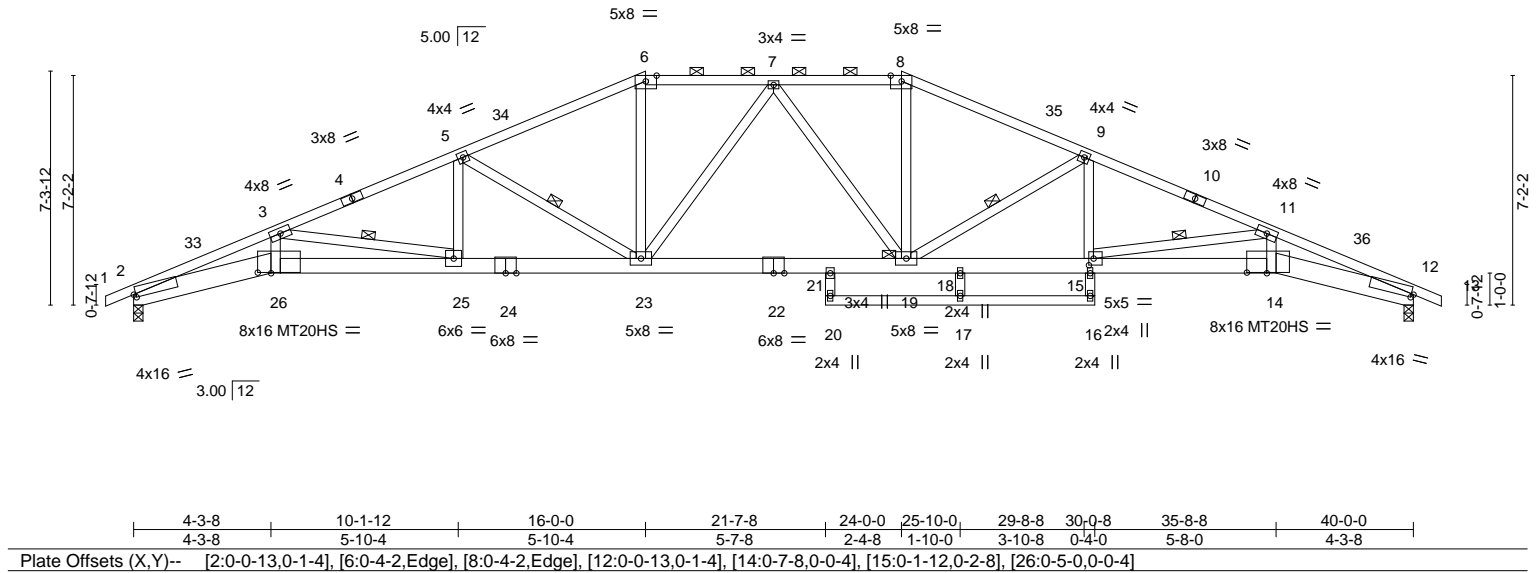
January 4, 2021

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MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Summit/16 Woodside/MO
2592336	A13	Hip			1	144187970
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,	Job Reference (optional)			
-0-10-8 4-3-8 10-1-12 16-0-0 20-0-0 21-7-8 24-0-0 29-8-8 30-0-8 35-8-8 40-0-0 40-10-8		0-10-8 4-3-8 5-10-4 5-10-4 4-0-0 1-7-8 2-4-8 5-8-8 0-4-0 5-8-0 4-3-8 0-10-8	ID:ggMHuYjvKTSNSqRK_pqYByzXhju-s6t5?8J387lw63OyQlwlJe6u8ZcY3pNK5nCcIey3UaH			
			8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:29:48 2020 Page 1			

Scale = 1:72.0



LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL)	-0.43 21-23	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.91	Vert(CT)	-0.98 21-23	>491	180	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr YES	WB 0.47	Horz(CT)	0.46 12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS						
								Weight: 211 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 (2-10-3 max.): 6-8.
BOT CHORD 2x4 SPF No.2 *Except* 2-26,12-14: 2x8 SP 2400F 2.0E, 24-26,14-22: 2x6 SPF 2100F 1.8E 22-24: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 3-25, 5-23, 9-19, 11-15 JOINTS 1 Brace at Jt(s): 19

REACTIONS.	(size) 2=0-3-8, 12=0-3-8 Max Horz 2=-109(LC 13) Max Uplift 2=-182(LC 12), 12=-182(LC 13) Max Grav 2=2279(LC 1), 12=2279(LC 1)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-8036/647, 3-5=-5368/400, 5-6=-4054/297, 6-7=-3630/300, 7-8=-3610/298, 8-9=-4033/294, 9-11=-5370/365, 11-12=-8038/552
BOT CHORD	2-26=-660/7441, 25-26=-647/7339, 23-25=-348/4907, 21-23=-120/3774, 19-21=-109/3688, 18-19=-195/4813, 15-18=-195/4813, 14-15=-451/7341, 12-14=-459/7443
WEBS	3-26=-51/1237, 3-25=-2478/305, 5-25=-5/706, 5-23=-1467/231, 6-23=-22/1110, 11-14=-15/1242, 8-19=-29/1102, 9-19=-1482/219, 11-15=-2480/249, 7-23=-460/129, 7-19=-487/136, 9-15=0/722

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-0-0, Exterior(2R) 16-0-0 to 20-0-0, Interior(1) 20-0-0 to 24-0-0, Exterior(2R) 24-0-0 to 28-2-15, Interior(1) 28-2-15 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) except (jt=lb) 2=182, 12=182.
 - This truss 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.



January 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

			RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI					
Job	Truss	Truss Type	Ply		Summit/16 Woodside/MO			
2592336	A14	Hip	1		144187971			
Builders FirstSource (Valley Center),			Valley Center, KS - 67147,			Job Reference (optional)		
-0-10-8			4-3-8			9-1-12		
0-10-8			4-3-8			4-10-4		
14-0-0			20-0-8			26-0-0		
4-10-4			6-0-8			5-11-8		
32-10-4			6-10-4			40-0-0		
40-10-8			7-1-12			0-10-8		

Scale = 1:73.8

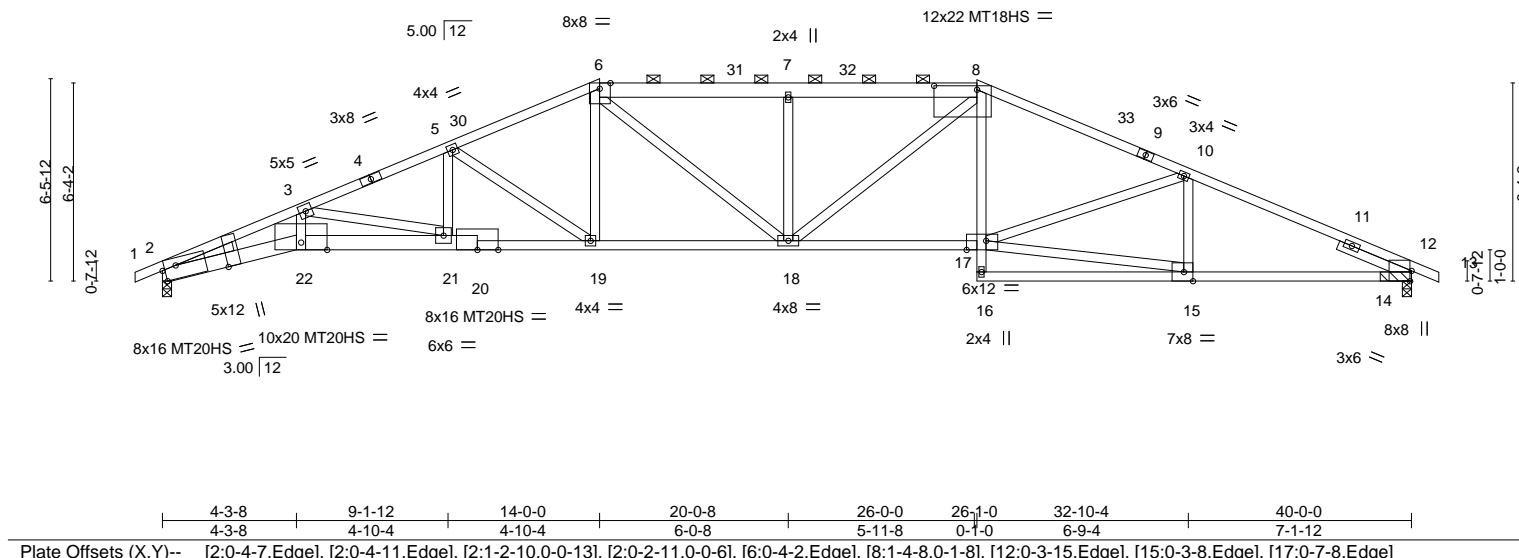


Plate Offsets (X,Y)--		[2:0-4-7,Edge], [2:0-4-11,Edge], [2:1-2-10,0-13], [2:0-2-11,0-0-6], [6:0-4-2,Edge], [8:1-4-8,0-1-8], [12:0-3-15,Edge], [15:0-3-8,Edge], [17:0-7-8,Edge]
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 20.0	Lumber DOL	1.15
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	IRC2018/TPI2014
	CSI.	
	TC	0.94
	BC	0.89
	WB	0.95
	Matrix-AS	
	DEFL.	
	in (loc)	l/defl
	Vert(LL)	-0.39 18-19 >999 240
	Vert(CT)	-0.88 18-19 >544 180
	Horz(CT)	0.42 12 n/a n/a
	PLATES	GRIP
	MT20	197/144
	MT20HS	148/108
	MT18HS	197/144
	Weight: 185 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except*	TOP CHORD Structural wood sheathing directly applied, except
4-6: 2x4 SPF No.2, 6-8: 2x6 SPF No.2	2-0-0 oc purlins (3-1-7 max.): 6-8.
BOT CHORD 2x4 SPF 1650F 1.5E *Except*	BOT CHORD Rigid ceiling directly applied.
2-22,20-22: 2x6 SPF 2100F 1.8E	
WEBS 2x4 SPF No.2	
WEDGE	
Left: 2x4 SPF No.2	
SLIDER Right 2x4 SPF No.2 2-6-0	

REACTIONS.	(size) 2=0-3-8, 12=(0-3-8 + bearing block) (req. 0-3-9)
	Max Horz 2=97(LC 16)
	Max Uplift 2=-129(LC 12), 12=-128(LC 13)
	Max Grav 2=2279(LC 1), 12=2279(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-7946/435, 3-5=-5501/341, 5-6=-4357/313, 6-7=-4492/357, 7-8=-4490/356, 8-10=-4406/313, 10-12=-4353/276
BOT CHORD	2-22=-441/7368, 21-22=-431/7257, 19-21=-219/5042, 18-19=-159/3939, 17-18=-154/3977, 12-15=-186/3927
WEBS	8-17=-11/694, 3-22=-42/1319, 6-19=-36/779, 6-18=-87/899, 7-18=-756/179, 15-17=-183/3862, 10-17=-33/325, 10-15=-493/119, 3-21=-2276/238, 5-21=-1/716, 5-19=-1301/180, 8-18=-75/872

- NOTES-**
- 1) 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 12 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
 - 2) Unbalanced roof live loads have been considered for this design.
 - 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-2-11, Interior(1) 2-2-11 to 14-0-0, Exterior(2R) 14-0-0 to 18-2-15, Interior(1) 18-2-15 to 26-1-0, Exterior(2R) 26-1-0 to 30-3-15, Interior(1) 30-3-15 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) except (jt=lb)

Continued on page 2



January 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>01/14/2021</div> </div>		Ply	Summit/16 Woodside/MO
2592336	A14	Hip			1	I44187971
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc.	Thu Dec 31 09:29:49 2020 Page 2
					ID:ggMHuYjvKTSNSqRK_bqYByzXhju-KlRTCUKhvRtnjDz8_SR_srf?4zz5o9CTJRx9Egy3UaG	Job Reference (optional)
NOTES-						
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.						
11) This truss 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.						

Job
2592336

Truss
A15

Truss Type
HIP

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

Ply
1

Summit/16 Woodside/MO
144187972

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

0-10-8 4-3-8 12-0-0 19-0-8 26-1-0 28-0-0 33-10-4 40-0-0 40-10-8

0-10-8 4-3-8 7-8-8 7-0-8 7-0-8 1-11-0 5-10-4 6-1-12 0-10-8

8,240 sq ft
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-GhYDd9MyR27VzX7X5tSxGkLJmenG3vmmIQQGJYy3UaE

01/14/2021

Job Reference (optional)
Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:29:51 2020 Page 1

Scale = 1:72.3

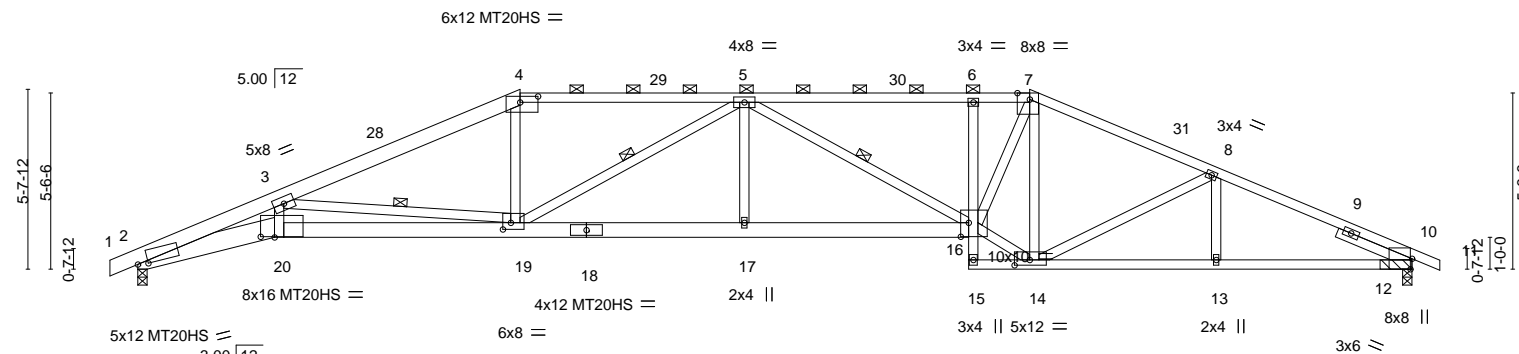


Plate Offsets (X,Y)--		[2:0-3-15,0-0-8], [4:0-6-12,0-2-4], [7:0-4-11,Edge], [10:0-3-15,Edge], [14:0-5-12,0-2-0], [16:0-3-0,0-5-4], [19:0-3-0,0-2-8], [20:0-5-4,0-0-4]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.95	in (loc) l/defl L/d
TCDL 20.0	Plate Grip DOL 1.15	BC 0.94	Vert(LL) -0.42 16-17 >999 240
BCLL 0.0 *	Lumber DOL 1.15	WB 0.93	Vert(CT) -0.93 16-17 >517 180
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.42 10 n/a n/a
Code IRC2018/TPI2014			
			PLATES GRIP
			MT20 197/144
			MT20HS 148/108
			Weight: 196 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 1650F 1.5E *Except* 1-4: 2x6 SPF No.2	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* 2-20: 2x8 SP 2400F 2.0E, 18-20,16-18: 2x6 SPF 2100F 1.8E 6-15: 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 3-19, 5-19, 5-16
SLIDER	Right 2x4 SPF No.2 2-6-0		

REACTIONS.	
(size)	2=0-3-8, 10=(0-3-8 + bearing block) (req. 0-3-9)
Max Horz	2=87(LC 12)
Max Uplift	2=149(LC 8), 10=149(LC 9)
Max Grav	2=2279(LC 1), 10=2279(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-8618/523, 3-4=-5037/381, 4-5=-4590/379, 5-6=-4815/416, 6-7=-4748/409, 7-8=-3928/327, 8-10=-4348/293
BOT CHORD	2-20=-460/8040, 19-20=-455/7873, 17-19=-349/5365, 16-17=-349/5365, 6-16=-521/133, 14-15=-51/279, 13-14=-206/3929, 10-13=-206/3929
WEBS	3-20=-5/1633, 3-19=-3315/363, 4-19=-0/1164, 5-19=-1117/129, 5-17=0/270, 5-16=-805/77, 14-16=-152/3810, 7-16=-232/2958, 7-14=-1558/128, 8-14=-446/156

- NOTES-**
- 2x4 SPF 1650F 1.5E bearing block 12" long at jt. 10 attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8
Total fasteners. Bearing is assumed to be SPF 1650F 1.5E.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-4-13, Interior(1) 2-4-13 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior(1) 16-2-15 to 28-0-0, Exterior(2R) 28-0-0 to 32-2-15, Interior(1) 32-2-15 to 40-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) except (jt=lb) 2=149, 10=149.
 - 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.



January 4,2021

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>01/14/2021</div> </div>		Ply	Summit/16 Woodside/MO
2592336	A15	HIP			1	I44187972
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			<div> <div>8,240 s Mar 9 2020</div> <div>MiTek Industries, Inc.</div> <div>Thu Dec 31 09:29:51 2020</div> <div>Page 2</div> </div>		Job Reference (optional)	
NOTES- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and bottom chord. 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.			<div> <div>ID:ggMHuYjvKTSNSqRK_pqY</div> <div>ByzXhju-GhYDd9MyR27VzX7X5tTSxGkLJmenG3vmnlQGJYy3UaE</div> </div>			

Job

2592336

Truss

A16

Truss Type

Hip

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

8.240 s Mar 9 2020

MITek Industries, Inc.

Thu Dec 31 09:29:53 2020

Page 1

Summit/16 Woodside/MO

144187973

Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

0-10-8

4-3-8

10-0-0

14-11-2

15-4-5

20-0-0

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

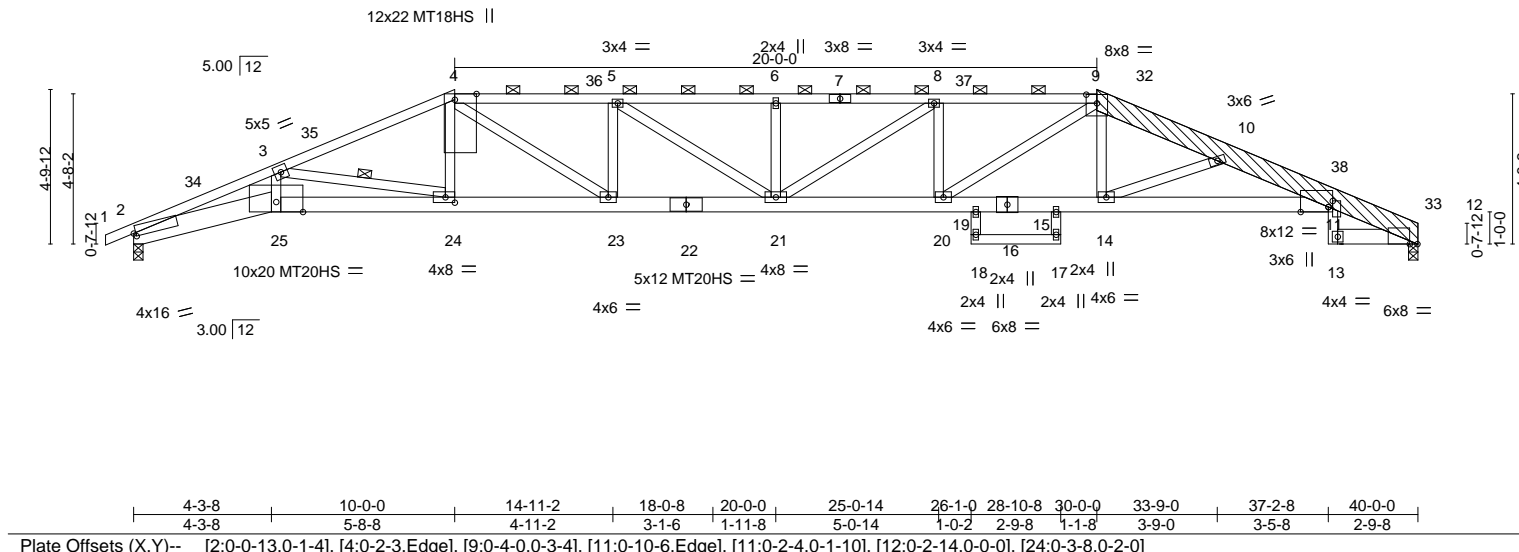
2-9-8

0-10-8

01/14/2021

20-0-0

Scale = 1:71.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.60	MT20	197/144		
TCDL	20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-1.31	MT20HS	148/108		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.55	MT18HS	197/144		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS					Weight: 241 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF 1650F 1.5E *Except* 9-12: 2x8 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-2-0 max.): 4-9.
BOT CHORD	2x4 SPF No.2 *Except* 2-25: 2x8 SP 2400F 2.0E, 22-25,11-16,16-22: 2x6 SPF 2100F 1.8E 12-13: 2x6 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 3-24
OTHERS	2x8 SP 2400F 2.0E		
LBR SCAB	9-12 2x8 SP 2400F 2.0E one side		

REACTIONS.	
(size)	2=0-3-8, 12=0-3-8
Max Horz	2=75(LC 16)
Max Uplift	2=-171(LC 8), 12=-147(LC 9)
Max Grav	2=2278(LC 1), 12=2198(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-8016/576, 3-4=-5530/467, 4-5=-6234/593, 5-6=-6666/633, 6-8=-6666/633, 8-9=-6234/592, 9-10=-5544/466, 10-11=-6928/548, 11-12=-1095/98
BOT CHORD	2-25=-5077/423, 24-25=-499/7325, 23-24=-349/5037, 21-23=-489/6231, 20-21=-482/6234, 19-20=-342/5082, 15-19=-343/5025, 14-15=-342/5082, 11-14=-475/6766, 11-13=-29/556
WEBS	3-25=-16/1178, 3-24=-2302/235, 4-24=0/784, 9-14=0/779, 6-21=-456/124, 5-21=-61/622, 5-23=-863/167, 4-23=-183/1594, 8-21=-58/627, 8-20=-798/159, 9-20=-179/1513, 10-14=-1774/169

- 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 3-4-15 from end at joint 9, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 6-6-12 from end at joint 9, nail 2 row(s) at 2" o.c. for 4-3-0.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 30-0-0, Exterior(2R) 30-0-0 to 34-0-14, Interior(1) 34-0-14 to 39-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) except (jt=lb)

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>01/14/2021</div> </div>		Ply	Summit/16 Woodside/MO
2592336	A16	Hip			1	I44187973
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			Job Reference (optional)	
NOTES-					8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:29:53 2020 Page 2	
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2					ID:ggMHuYjvKTSNSqRK_pqYBxyzXhju-D4g_2rNCzgNDCqHvDIVw0hqhGaKQk463E3vNNRy3UaC	
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	
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.						

Job
2592336

Truss
A17

Truss Type
Hip

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

01/14/2021

Ply
1

Summit/16 Woodside/MO
144187974

Job Reference (optional)

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

8-240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:29:54 2020 Page 1

ID:ggMHuYjvKTSNSqRK_pqYByzXhju-hGEMGBOqkzV4q_s6n019ZvMsa_hETUxCTjfwvty3UaB

0-10-8 4-3-8 8-0-0 14-0-5 19-7-12 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 5-7-7 0-4-14 5-2-9 0-9-12 2-9-8 3-1-8 2-6-15 2-7-9 2-9-8 0-10-8

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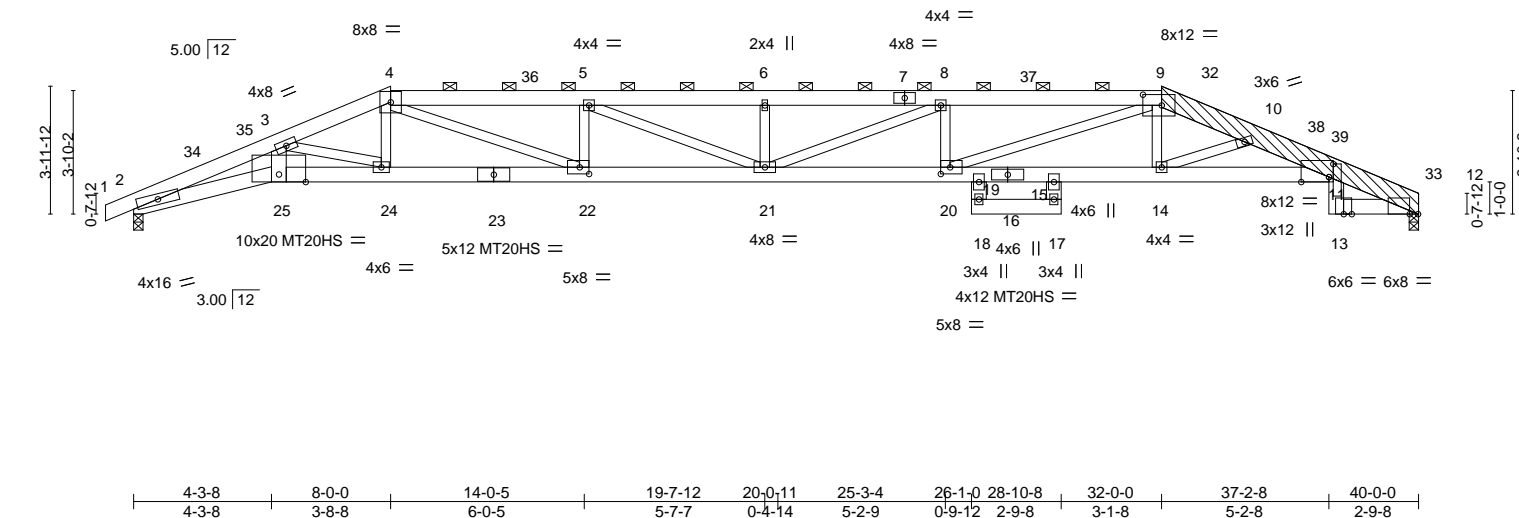


Plate Offsets (X,Y)--		[9:0-7-0,0-4-0], [11:0-10-6,Edge], [11:0-4-14,0-1-10], [12:0-3-2,0-0-0], [20:0-3-8,0-2-8], [22:0-3-8,0-2-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.95
TCDL 20.0	Lumber DOL	1.15	BC 0.83
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS
		DEFL.	in (loc)
		Vert(LL)	-0.71 20-21 >680 240
		Vert(CT)	-1.55 20-21 >309 180
		Horz(CT)	0.58 12 n/a n/a
		PLATES	GRIP
		MT20	197/144
		MT20HS	148/108
		Weight: 242 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF No.2 *Except* 4-7: 2x6 SPF 2100F 1.8E, 9-12: 2x8 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins: 4-9.
BOT CHORD	2x6 SPF No.2 *Except* 2-25,23-25,11-16,16-23: 2x6 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2 *Except* 3-25: 2x6 SPF No.2		
OTHERS	2x8 SP 2400F 2.0E		
LBR SCAB	9-12 2x8 SP 2400F 2.0E one side		

REACTIONS.	
(size)	2=0-3-8, 12=0-3-8
Max Horz	2=62(LC 16)
Max Uplift	2=-192(LC 8), 12=-169(LC 9)
Max Grav	2=2278(LC 1), 12=2198(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-8136/673, 3-4=-6423/588, 4-5=-8344/843, 5-6=-9198/931, 6-8=-9198/931, 8-9=-8486/861, 9-10=-6381/592, 10-11=-7159/625, 11-12=-1275/122
BOT CHORD	2-25=-594/7513, 24-25=-579/7364, 22-24=-486/5957, 21-22=-762/8342, 20-21=-774/8486, 19-20=-493/6118, 15-19=-484/5829, 14-15=-493/6118, 11-14=-558/6990, 17-18=-10/289, 11-13=-45/701
WEBS	3-25=-69/1349, 3-24=-1429/159, 4-24=0/770, 4-22=-309/2694, 5-22=-961/197, 9-14=0/538, 8-20=-868/188, 9-20=-309/2645, 10-14=-973/108, 5-21=-106/1024, 6-21=-496/130, 8-21=-84/869

- NOTES-**
- 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 2-1-12 from end at joint 9, nail 2 row(s) at 2" o.c. for 6-6-0.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 32-0-0, Exterior(2R) 32-0-0 to 36-2-15, Interior(1) 36-2-15 to 39-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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.

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>01/14/2021</div> </div>		Ply	Summit/16 Woodside/MO
2592336	A17	Hip			1	I44187974
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			8,240 s Mar 9 2020 MiTek Industries, Inc.	Thu Dec 31 09:29:54 2020 Page 2
					ID:ggMHuYjvKTSNSqRK_pqYByzXhju-hGEMGBOqkzV4q_s6n019ZvMsa_hETUxCTjfwwty3UaB	Job Reference (optional)
NOTES-						
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=192, 12=169.						
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.						

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply	Summit/16 Woodside/MO
2592336	A18	HIP GIRDER		2	144187975
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)		
			8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:29:58 2020 Page 1		
			ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Z1Tt5ZRLnC0Vlc9t0r55jkXXhb1FPH2oOLd72ey3Ua7		
			01/14/2021		
			28-10-8		
			0-10-8 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 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		

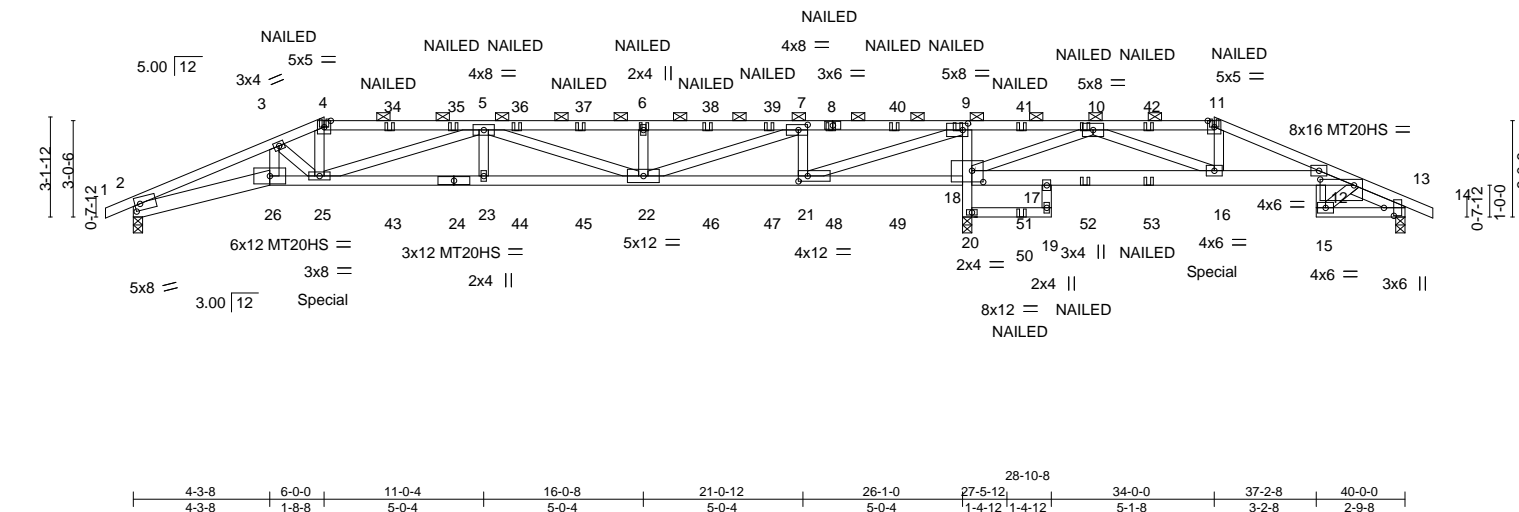


Plate Offsets (X,Y)-- [2:0-1-15,0-2-8], [7:0-3-8,0-2-0], [9:0-2-0,0-2-8], [12:1-0-12,0-2-3], [13:0-3-0,0-3-12], [18:0-4-4,0-4-4], [21:0-3-8,0-2-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.31 22-23	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.66 22-23	>473	180	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.15 13	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS						Weight: 322 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except
8-11: 2x4 SPF 1650F 1.5E	2-0-0 oc purlins (4-2-9 max.): 4-11.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 4-11-5 oc bracing. Except:
2-26: 2x6 SPF 2100F 1.8E, 24-26,18-24: 2x4 SPF 1650F 1.5E	10-0-0 oc bracing: 12-16
12-18: 2x6 SPF No.2	
WEBS 2x4 SPF No.2 *Except*	
5-25,9-21: 2x4 SPF 1650F 1.5E	
SLIDER Right 2x4 SPF No.2 1-9-0	

REACTIONS.	(size) 2=0-3-8, 13=0-3-8, 20=0-3-8
	Max Horz 2=44(LC 8)
	Max Uplift 2=-375(LC 8), 13=-96(LC 9), 20=-977(LC 4)
	Max Grav 2=2256(LC 21), 13=480(LC 22), 20=5870(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-7324/1267, 3-4=-6760/1203, 4-5=-6244/1120, 5-6=-5851/1061, 6-7=-5851/1061, 7-9=-974/233, 9-10=-1176/7435, 10-11=-421/173, 11-12=-475/193
BOT CHORD	2-26=-1163/6702, 25-26=-1133/6542, 23-25=-1317/7662, 22-23=-1317/7662, 21-22=-164/974, 18-21=-7572/1240, 18-20=-5782/982, 9-18=-3544/634, 17-18=-2779/469, 16-17=-2924/491, 12-16=-80/407
WEBS	3-26=-94/690, 3-25=-315/185, 4-25=-307/1790, 5-25=-1560/308, 5-23=-29/370, 5-22=-1961/330, 6-22=-664/152, 7-22=-897/5207, 7-21=-2327/426, 9-21=-1481/8824, 11-16=-368/124, 10-18=-4890/856, 10-16=-459/3563

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Job		Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply	Summit/16 Woodside/MO	
2592336		A18	HIP GIRDER			2	I44187975	
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8.240 s Mar 9 2020		MiTek Industries, Inc. Thu Dec 31 09:29:58 2020 Page 2		
				ID:ggMHuYjvKTSNSqRK		pqYByzXhju-Z1Tt5ZRLnC0Vlc9t0r55jkXXhb1FPH2oOLd72ey3Ua7		
<div>NOTES-</div> <div>9) Bearing at joint(s) 2, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.</div> <div>10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=375, 20=977.</div> <div>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.</div> <div>12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</div> <div>13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.</div> <div>14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 473 lb down and 105 lb up at 6-0-0, 116 lb down and 45 lb up at 6-0-12, 116 lb down and 45 lb up at 8-0-12, 116 lb down and 45 lb up at 10-0-12, 116 lb down and 45 lb up at 12-0-12, 116 lb down and 45 lb up at 14-0-12, 116 lb down and 45 lb up at 16-0-12, 116 lb down and 45 lb up at 18-0-12, 116 lb down and 45 lb up at 20-0-0, 116 lb down and 45 lb up at 21-11-4, 116 lb down and 45 lb up at 23-11-4, and 116 lb down and 45 lb up at 26-2-12, and 611 lb down and 148 lb up at 33-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.</div>								

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-11=-90, 11-12=-90, 12-14=-90, 26-27=-20, 18-26=-20, 19-20=-20, 12-17=-20, 15-30=-20

Concentrated Loads (lb)

Vert: 4=-84(F) 8=-84(F) 24=-116 9=-84(F) 18=-116 25=-589(F=-473) 22=-116 6=-84(F) 11=-116(F) 16=-611(F) 10=-116(F) 34=-84(F) 35=-84(F) 36=-84(F) 37=-84(F) 38=-84(F) 39=-84(F) 40=-84(F) 41=-90(F) 42=-116(F) 43=-116 44=-116 45=-116 46=-116 47=-116 48=-116 49=-116 50=-111(F) 52=-85(F) 53=-85(F)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2592336	Truss B1	Truss Type Common	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021 </div>		Summit/16 Woodside/MO 144187976 Job Reference (optional) 8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:13 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-dwtXFhdIFpvNbvplOVscqvIFkeH?QE2?rAlQ3Hy3UZu
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			

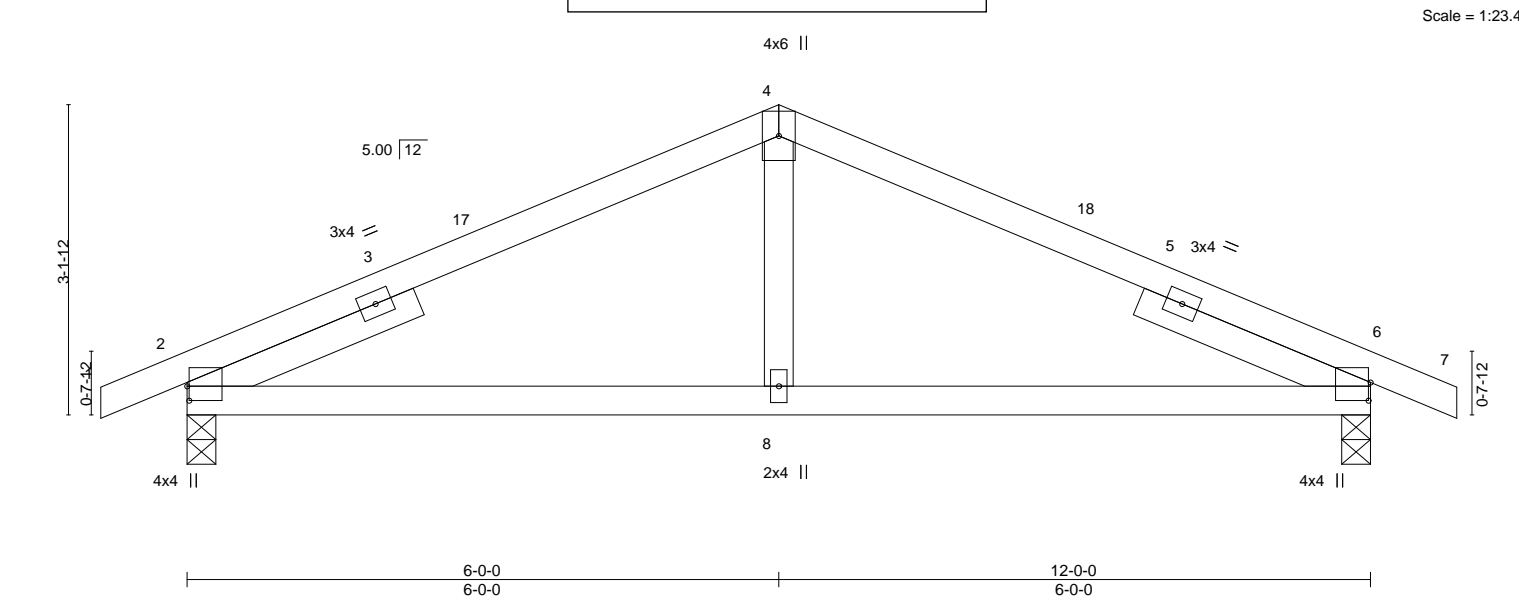


Plate Offsets (X, Y)--		[2:0-1-12,0-0-4], [6:0-2-3,0-0-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.38
TCDL 20.0	Lumber DOL	1.15	BC 0.36
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.04 8-15 >999 240
			Vert(CT) -0.07 8-15 >999 180
			Horz(CT) 0.02 2 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 40 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SPF No.2	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.	(size) 2=0-3-8, 6=0-3-8
	Max Horz 2=45(LC 12)
	Max Uplift 2=-64(LC 12), 6=-64(LC 13)
	Max Grav 2=739(LC 1), 6=739(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-863/228, 4-6=-863/228
BOT CHORD	2-8=-112/786, 6-8=-112/786
WEBS	4-8=0/257

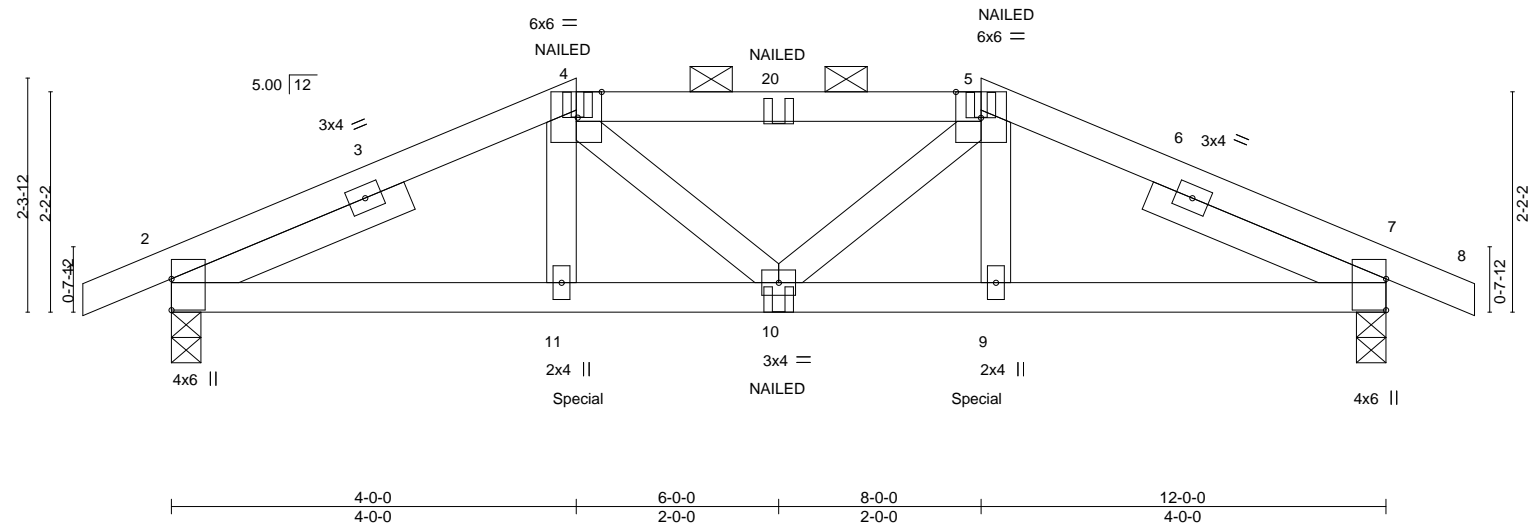
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



January 4, 2021

Job 2592336	Truss B2	Truss Type Hip Girder	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021 </div>	Ply 1	Summit/16 Woodside/MO 144187977
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:ggMHuYjvKTSNSqRK_pqYByzXhju-ZJ?IgNe?nQ95rDy8Vvv4vKkV6StTu8WIIUEX89y3UZs 8,240 sq ft 01/14/2021		
-0-10-8 0-10-8			4-0-0 4-0-0		
12-0-0 4-0-0			12-10-8 0-10-8		

Scale = 1:22.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.04	9-10	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.08	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS						Weight: 46 lb	FT = 20%

LUMBER-			BRACING-	
TOP CHORD	2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied or 4-0-6 oc purlins, except
BOT CHORD	2x4 SPF No.2			2-0-0 oc purlins (3-7-7 max.): 4-5.
WEBS	2x4 SPF No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER	Left 2x4 SPF No.2 2-6-0, Right 2x4 SPF No.2 2-6-0			

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=31(LC 9)
 Max Uplift 2=159(LC 8), 7=159(LC 9)
 Max Grav 2=1131(LC 1), 7=1131(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1842/278, 4-5=-1743/248, 5-7=-1842/278
 BOT CHORD 2-11=-233/1681, 10-11=-233/1663, 9-10=-208/1663, 7-9=-207/1681

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=159, 7=159.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 290 lb down and 66 lb up at 4-0-0, and 290 lb down and 66 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

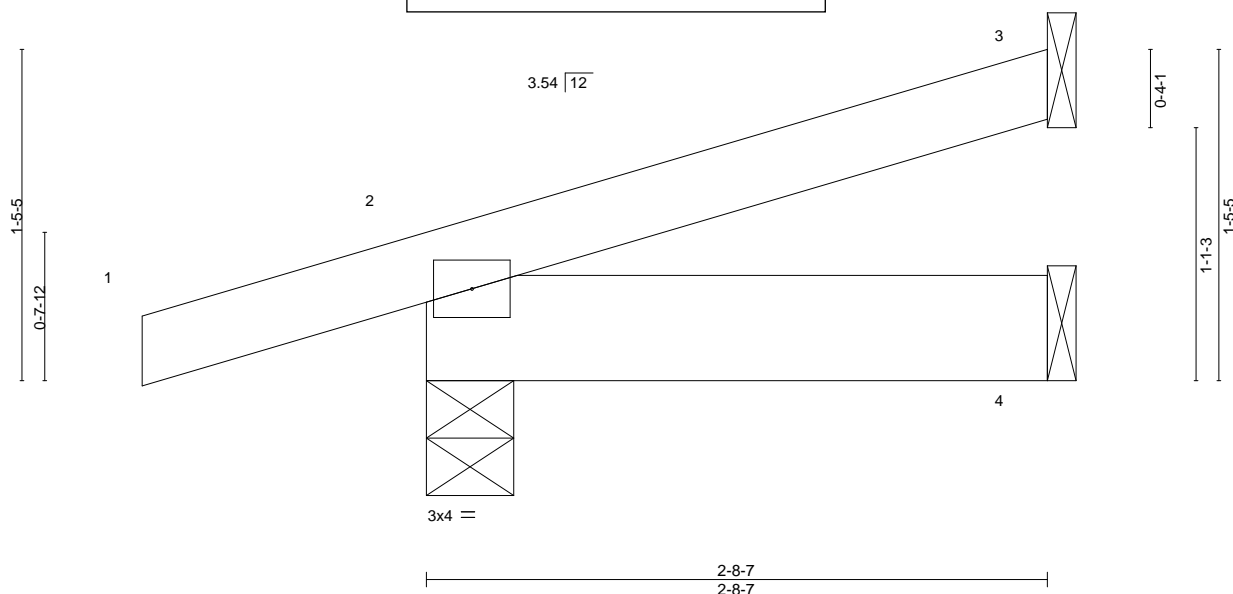
Vert: 1-4=-90, 4-5=-90, 5-8=-90, 12-16=-20

Concentrated Loads (lb)

Vert: 4=-60(F) 5=-60(F) 11=-290(F) 9=-290(F) 10=-27(F) 20=-60(F)



Job 2592336	Truss CJ1	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:ggMHuYjvKTSNSqRK_bqYByzXhju-2VZgtjfdYkHySNXK3dQJSXHpxrOodbhSX8_4gcy3UZr 01/14/2021	Ply 1 Summit/16 Woodside/MO I44187978 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:16 2020 Page 1
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						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=46(LC 8)
Max Uplift 3=-25(LC 12), 2=-65(LC 8)
Max Grav 3=83(LC 1), 2=283(LC 1), 4=54(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4, 2021

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

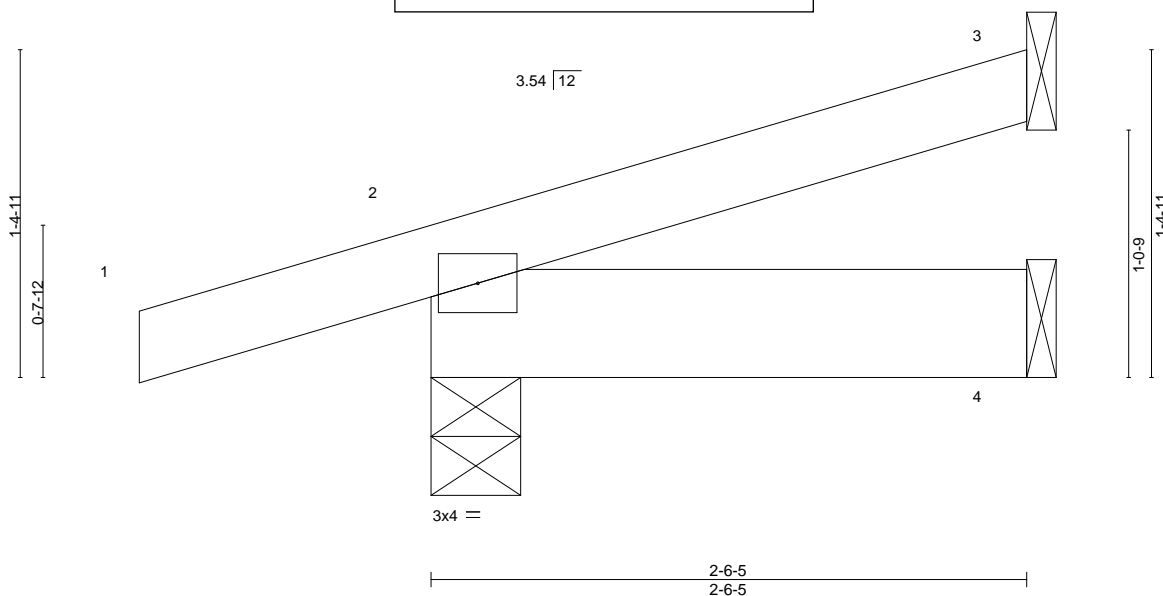
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2592336	Truss CJ2	Truss Type Jack-Open	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>	Ply 1	Summit/16 Woodside/MO 144187979
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:ggMHuYjvKTSNSqRK_pqYByzXhju-2VZgtjfdYkHySNXK3dQJSXHpxrOtdbhSX8_4gcy3UZr 01/14/2021		



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						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=44(LC 8)
 Max Uplift 3=23(LC 12), 2=65(LC 8)
 Max Grav 3=76(LC 1), 2=275(LC 1), 4=50(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4, 2021

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

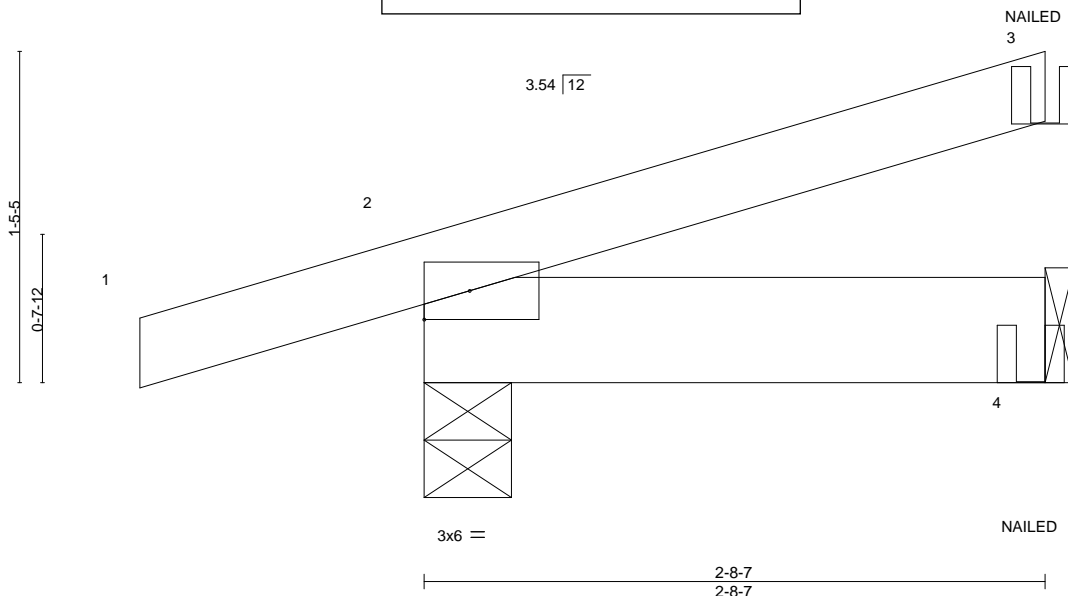
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss CJ3	Truss Type Diagonal Hip	Girder	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021 </div>	Ply 1 Summit/16 Woodside/MO 144187980 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:17 2020 Page 1 ID:ggMHuYjvKTSNSqRK...bpqYByzXhju-Wh7242gFJ2Pp4X6XdLxY?lptOFh8M2xblajeC2y3UZq
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	-0.00	4-7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						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=43(LC 4)
Max Uplift 2=-61(LC 21), 4=-37(LC 5)
Max Grav 2=283(LC 1), 4=150(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for 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.
- "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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-90, 4-5=-20
Concentrated Loads (lb)
Vert: 4=-25(B)



January 4, 2021

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

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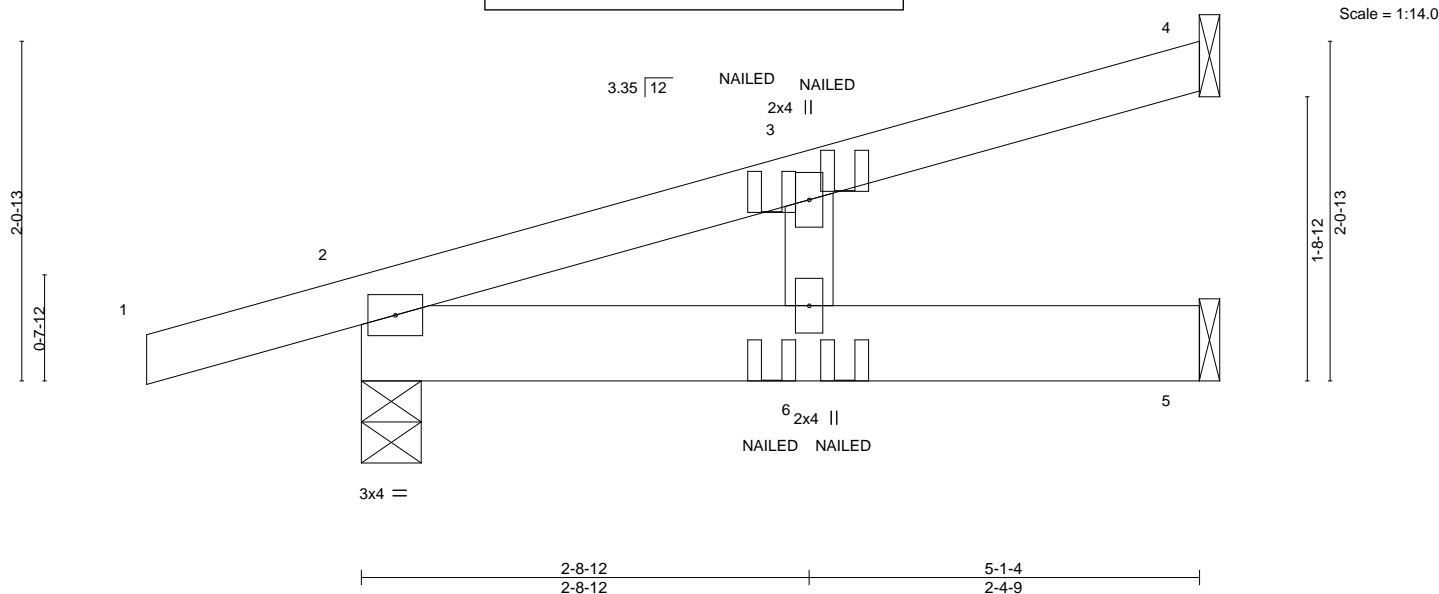
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2592336	Truss CJ4	Truss Type Diagonal Hip	Girder	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>	Ply 1	Summit/16 Woodside/MO 144187981
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8,240 sq ft ID:ggMHuYjvKTSNSqRK_pqYByzXhju-uhQlOht4LXgighjB2SnXyM8sf0I5VrI_STBIUy3UZp			
-1-3-11 1-3-11			2-8-12 2-8-12		5-1-4 2-4-9	



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	-0.02	6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.04	6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 18 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 5-1-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-4-6, 5=Mechanical
 Max Horz 2=69(LC 21)
 Max Uplift 4=30(LC 8), 2=76(LC 4), 5=9(LC 8)
 Max Grav 4=115(LC 1), 2=416(LC 1), 5=153(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 1-4=90, 5-7=20
- Concentrated Loads (lb)
 Vert: 6=12(F=-9, B=-2)



January 4, 2021

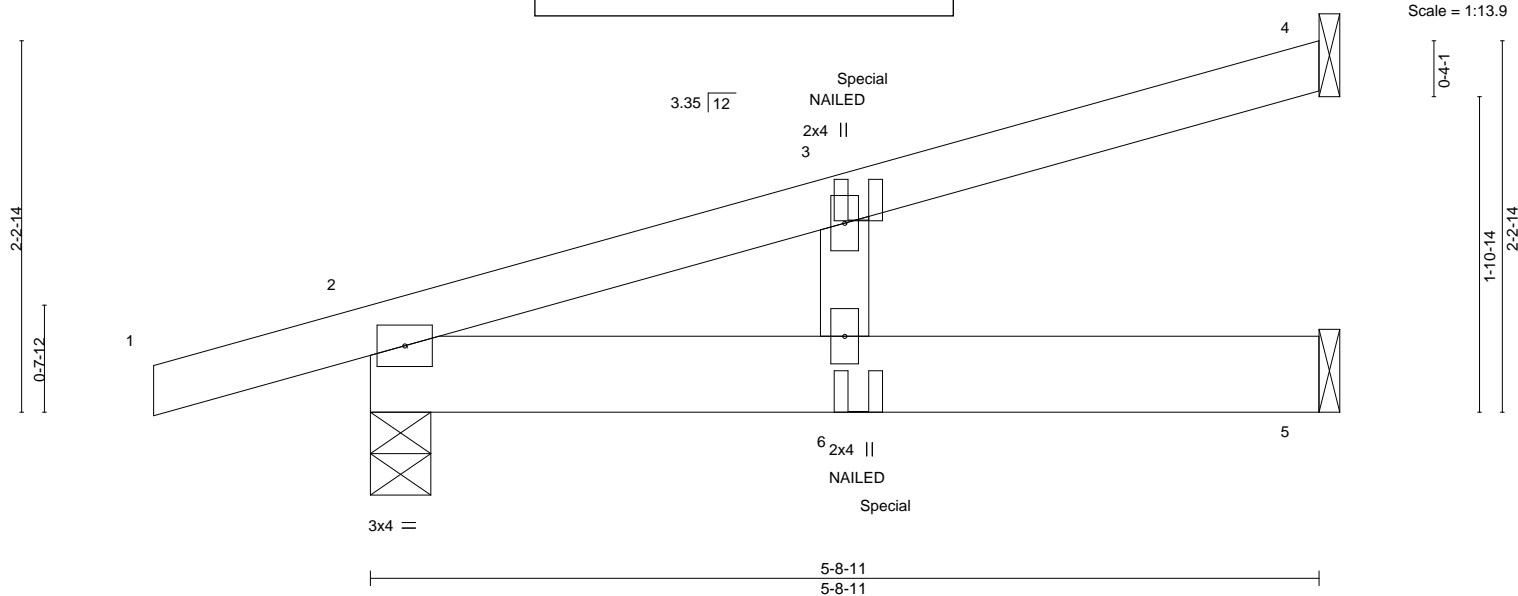
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss CJ5	Truss Type Diagonal Hip	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:ggMHuYjvKTSNSqRK_pqYByzXhju-VMxn?SZ6pQjWfcqqXzXQOruaBrvKiHgTES3sWBy3PYx 01/14/2021 </div>	Ply 1	Summit/16 Woodside/MO	I44187982
					Job Reference (optional) 8.240 s Aug 6 2020 MiTek Industries, Inc. Thu Dec 31 15:12:34 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-VMxn?SZ6pQjWfcqqXzXQOruaBrvKiHgTES3sWBy3PYx	



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.03	6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.06	6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						Weight: 19 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 5-8-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=136/Mechanical, 2=447/0-4-6, 5=166/Mechanical
Max Horz 2=76(LC 21)
Max Uplift 4=-36(LC 8), 2=-78(LC 4), 5=-8(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 4, 78 lb uplift at joint 2 and 8 lb uplift at joint 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 24 lb down and 30 lb up at 3-1-6 on top chord, and 1 lb down and 1 lb up at 3-1-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-90, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-9(F=1, B=-9)



January 4, 2021

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017



Job 2592336	Truss CJ7	Truss Type Diagonal Hip	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>	Ply 1	Summit/16 Woodside/MO 144187984
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:ggMHuYjvKTSNSqRK_pqYByzXhju-OSMZwQjrmNGvFZ8QIsA0U9b_bls1zIqoBgQhRLpy3UZm 01/14/2021		
-1-2-14 1-2-14			3-1-7 3-1-7		
5-11-5 2-9-15			8-4-5 2-5-0		

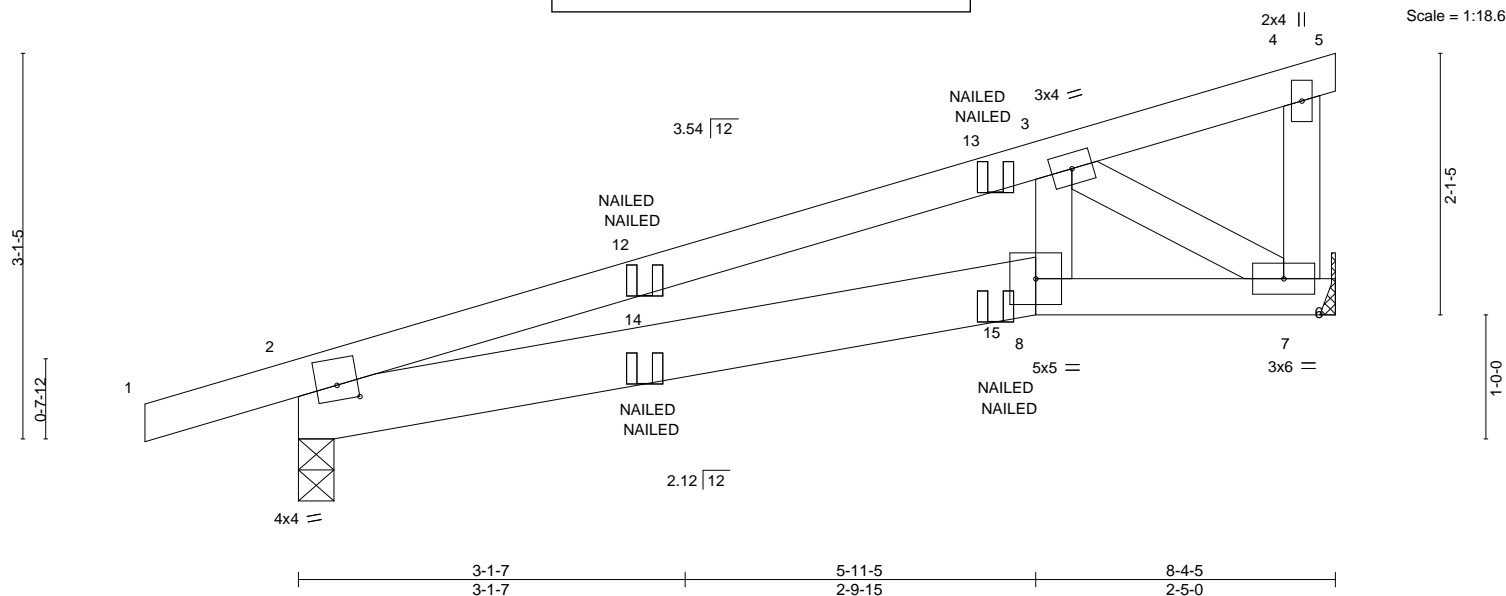


Plate Offsets (X,Y)--		[2:0-2-0,0-1-7]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 25.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.01	8-11	>999	240	MT20	197/144	
TCDL 20.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.04	8-11	>999	180			
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.14	Horz(CT)	0.01	7	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP								
										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 5-7-0 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=92(LC 5)
 Max Uplift 7=-77(LC 8), 2=-97(LC 4)
 Max Grav 7=501(LC 1), 2=585(LC 1)

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

TOP CHORD 2-3=-945/137
 BOT CHORD 2-8=-154/863, 7-8=-148/805
 WEBS 3-8=0/278, 3-7=-927/188

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-90, 4-5=-40, 8-9=-20, 6-8=-20
 Concentrated Loads (lb)
 Vert: 13=-36(F=-18, B=-18) 14=2(F=1, B=1) 15=-35(F=-18, B=-18)



January 4, 2021

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss CJ8	Truss Type DIAGONAL HIP GIRDER	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021 </div>	Ply 1	Summit/16 Woodside/MO 144187985
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:22 2020 Page 1 ID:ggMHuYjvKTSNSqRK_bqYByzXhju-sfwx8mkO8a15BI?UQuXjioXq7GQv1IEKv4RPuFy3UZI		
-1-2-14 1-2-14			2-9-3 2-9-3		

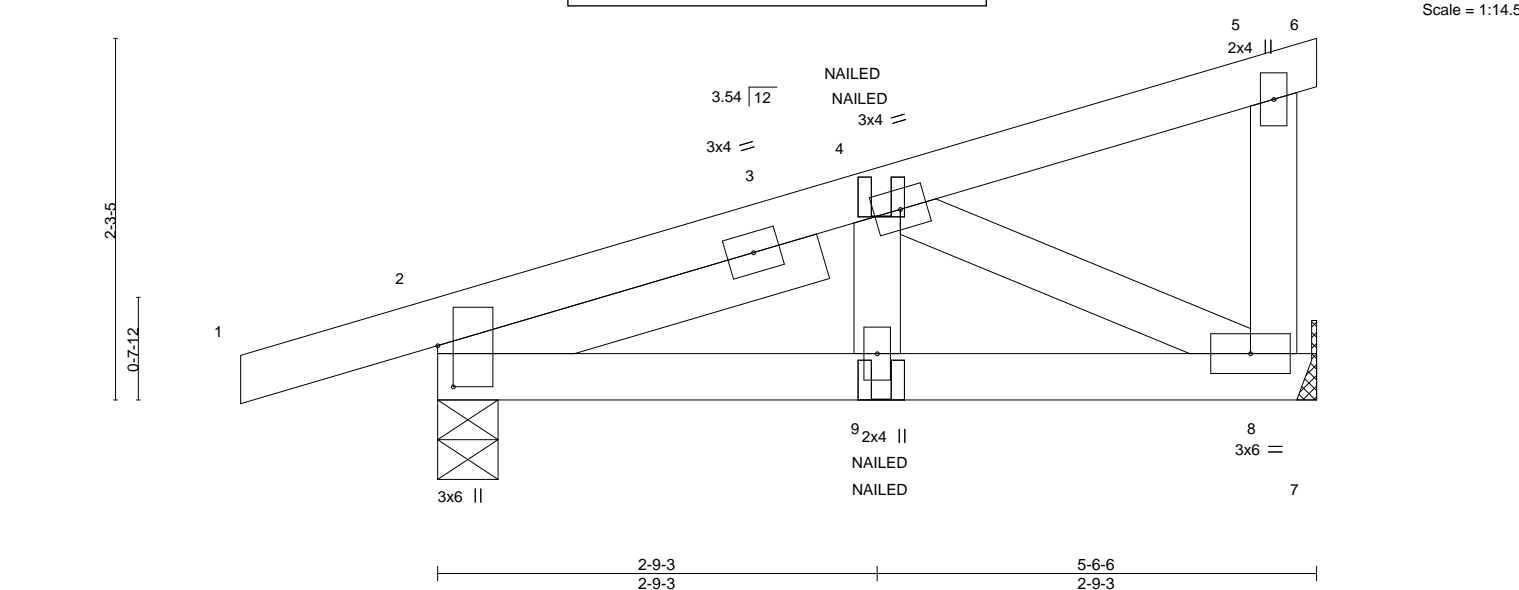


Plate Offsets (X,Y)--		[2:0-3-2,0-1-3]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.15	in (loc) l/defl L/d
TCDL 20.0	Lumber DOL 1.15	BC 0.12	Vert(LL) -0.00 9 >999 240
BCLL 0.0 *	Rep Stress Incr NO	WB 0.06	Vert(CT) -0.01 9 >999 180
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP	Horz(CT) 0.00 8 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 23 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 2-6-0		

REACTIONS.	
(size)	2=0-4-9, 8=Mechanical
Max Horz	2=78(LC 7)
Max Uplift	2=77(LC 4), 8=40(LC 8)
Max Grav	2=413(LC 1), 8=292(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-324/34
BOT CHORD	2-9=-37/329, 8-9=-37/329
WEBS	4-8=-363/59

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

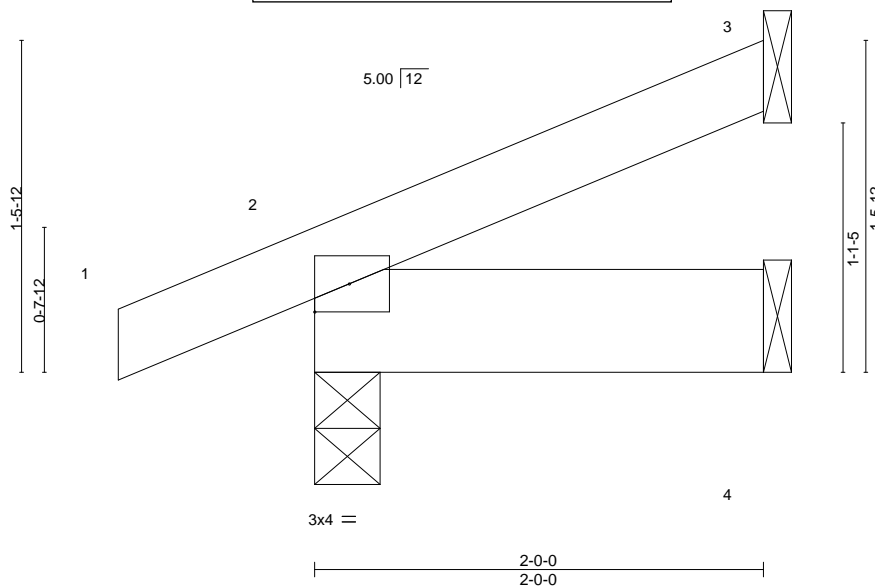
LOAD CASE(S) Standard	
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-5=-90, 5-6=-40, 7-10=-20	
Concentrated Loads (lb)	
Vert: 9=2(F=1, B=1)	



January 4, 2021

Job 2592336	Truss J1	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply 1 Summit/16 Woodside/MO I44187986
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:23 2020 Page 1 ID:ggMHuYjvKTSNSqRK_bqYByzXhju-KrUJL6k0vu9yoSagzb2yE0306gndmlQU8kAyQiy3UZk		
-0-10-8 0-10-8			01/14/2021 2-0-0 2-0-0		

Scale = 1:10.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	7	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	7	>999	180	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						
								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=42(LC 12)
Max Uplift 3=22(LC 12), 2=23(LC 8)
Max Grav 3=63(LC 1), 2=205(LC 1), 4=42(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4, 2021

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

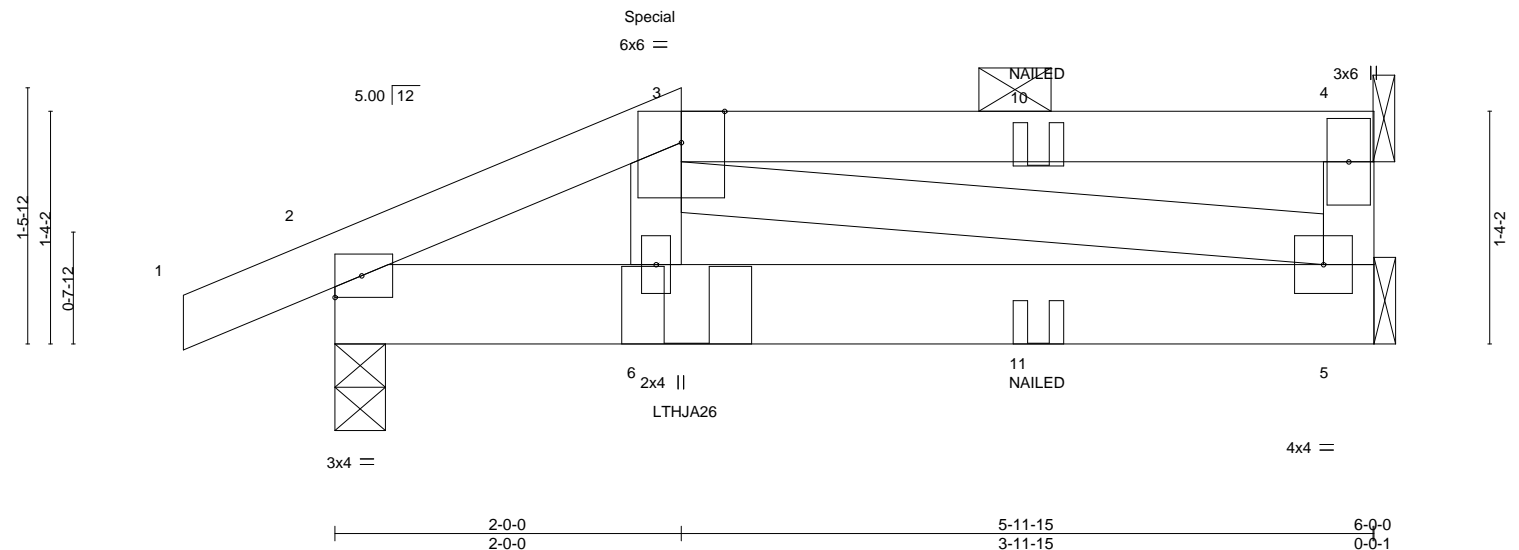


16023 Swingley Ridge Rd
Chesterfield, MO 63017

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/14/2021

Job 2592336	Truss J2	Truss Type Half Hip Girder	Ply 1	Summit/16 Woodside/MO 144187987
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)	
<div style="display: flex; justify-content: space-between;"> -0-10-8 0-10-8 2-0-0 2-0-0 </div>			<div style="display: flex; justify-content: space-between;"> 6-0-0 4-0-0 8-240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:32 2020 Page 1 </div>	

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Scale = 1:13.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCCL	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.00	MT20		197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP							
								Weight: 25 lb FT = 20%			

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

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=41(LC 7)
Max Uplift 2=44(LC 4), 4=48(LC 4)
Max Grav 5=160(LC 3), 2=421(LC 1), 4=173(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-446/15
BOT CHORD 2-6=-27/385, 5-6=-34/383
WEBS 3-5=-396/27

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 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) 60 lb down and 61 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
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



January 4,2021

Continued on page 2

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021		Ply	Summit/16 Woodside/MO
2592336	J2	Half Hip Girder	8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:32 2020 Page 2 ID:ggMHuYjvkTSSnSqRK_pqYBzXhju-aaXjEBrfnfhNqmP?_i36vxTalpwNproCesxEgy3UZb		1	I44187987
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			Job Reference (optional)			
LOAD CASE(S) Standard Uniform Loads (plf) Vert: 1-3=-90, 3-4=-90, 5-7=-20 Concentrated Loads (lb) Vert: 6=-18(F) 11=-9(F)						

Job
2592336

Truss
J3

Truss Type
Half Hip

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

01/14/2021

Ply
1

Summit/16 Woodside/MO
144187988

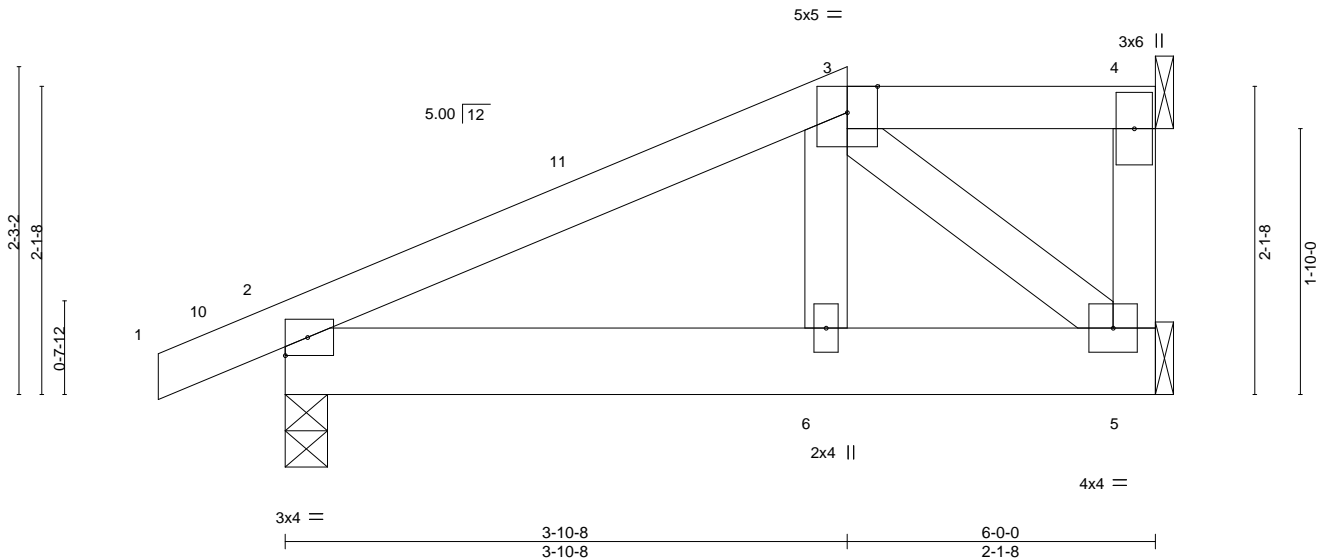
Job Reference (optional)
8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:38 2020 Page 1
ID:ggMHuYjvKTSNSqRK_pqYByzXhju-Oku_VEwQMV2q5IDZMFpTLABZUjtmnYJhaZJFSKy3UZV

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

3-10-8
3-10-8

6-0-0
2-1-8

Scale: 3/4"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.00	6-9	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.01	6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 25 lb	FT = 20%

LUMBER-			BRACING-	
TOP CHORD	2x4 SPF No.2		TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x6 SPF No.2			2-0-0 oc purlins: 3-4.
WEBS	2x4 SPF No.2		BOT CHORD	Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 5=Mechanical, 4=Mechanical
 Max Horz 2=71(LC 11)
 Max Uplift 2=45(LC 12), 5=-7(LC 9), 4=-25(LC 8)
 Max Grav 2=407(LC 1), 5=227(LC 1), 4=89(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-340/86
 WEBS 3-5=-327/151

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-8, Exterior(2E) 3-10-8 to 5-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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, 5, 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



January 4,2021

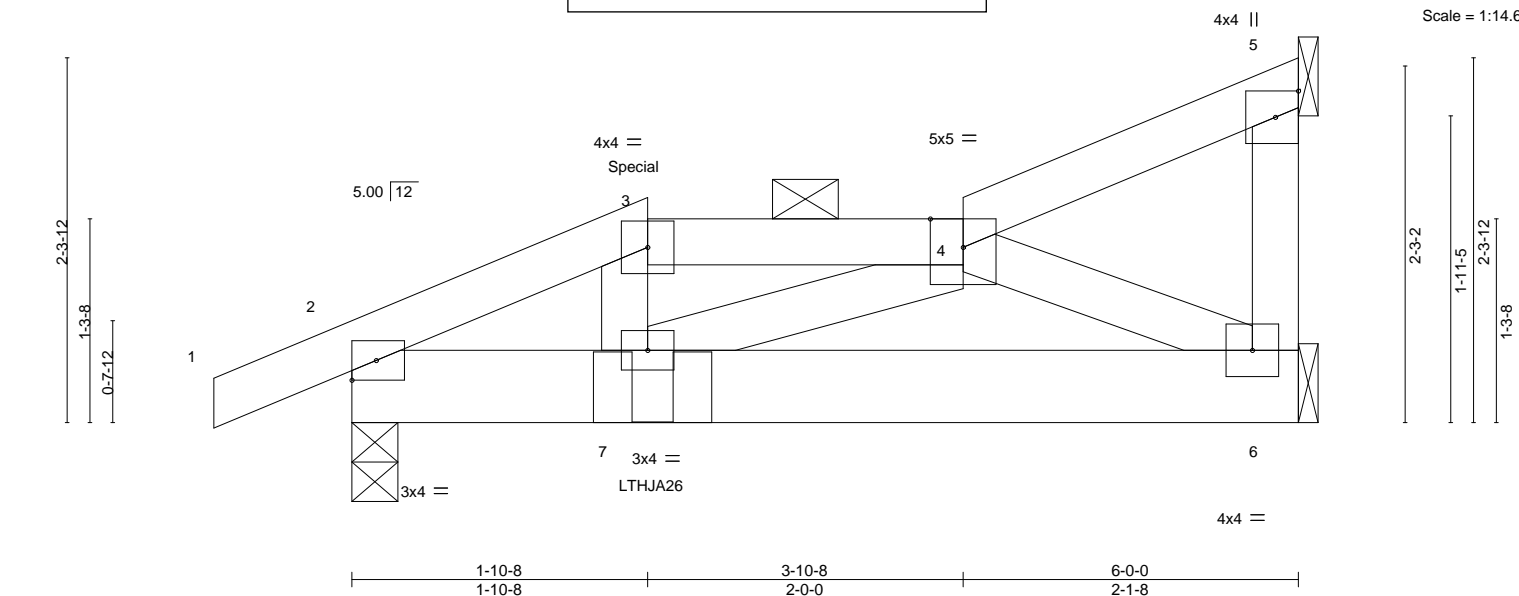
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss J4	Truss Type Roof Special	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>	Ply 1	Summit/16 Woodside/MO 144187989
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:ggMHuYjvKTSNSqRK_pqYByZXhju-twSMiax27oAhjvolyKiuOkIW7CgW?QqpD2o_my3UZU 01/14/2021		
-0-10-8 0-10-8			1-10-8 1-10-8		
6-0-0 2-1-8			6-0-0 2-1-8		



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	6-7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.01	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						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=77(LC 7)
Max Uplift 6=21(LC 8), 2=59(LC 8), 5=24(LC 8)
Max Grav 6=235(LC 1), 2=425(LC 1), 5=89(LC 1)

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

TOP CHORD 2-3=-458/36, 3-4=-397/45
BOT CHORD 2-7=-44/399, 6-7=-65/380
WEBS 4-6=-424/91

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) 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) 6, 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 10) 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.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 58 lb up at 1-10-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-90, 3-4=-90, 4-5=-90, 6-8=-20



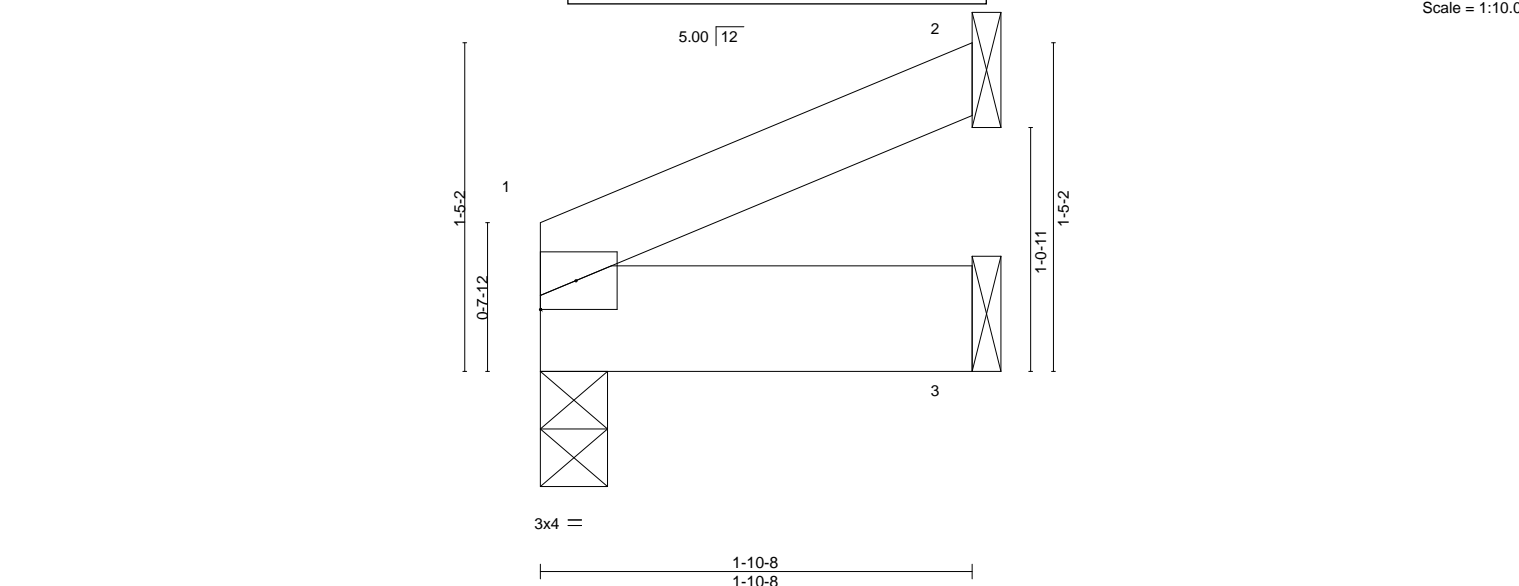
January 4, 2021

Continued on page 2

Job 2592336	Truss J4	Truss Type Roof Special	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021</div>		Ply 1	Summit/16 Woodside/MO 144187989 Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:39 2020 Page 2 ID:ggMHuYjvKTSNSqRK_pqYBYzXhju-twSMiax27oAhjvolvyKiuOkIW7CgW?QqpD2o_my3UZU			

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-25(B)

Job 2592336	Truss J5	Truss Type Jack-Open	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>	Ply 1	Summit/16 Woodside/MO 144187990
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:ggMHuYjvKTSNSqRK_pdyByzXhju-L60lvwyhu6iYL3NyTgrxQbGxGPFRd_2toMWDy3UZT 01/14/2021		



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00 6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00 6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 2	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP					Weight: 6 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins.
BOT CHORD 2x6 SPF No.2	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=28(LC 12)
 Max Uplift 1=-2(LC 12), 2=-21(LC 12), 3=-1(LC 12)
 Max Grav 1=102(LC 1), 2=62(LC 1), 3=45(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 3.
 - 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.



January 4, 2021

Job 2592336	Truss J6	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021		Summit/16 Woodside/MO 144187991 Job Reference (optional) 8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:40 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-L60lvwyhu6iYL3NyTgrxQbGu5XYqFRd_2toMWDy3UZT
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			

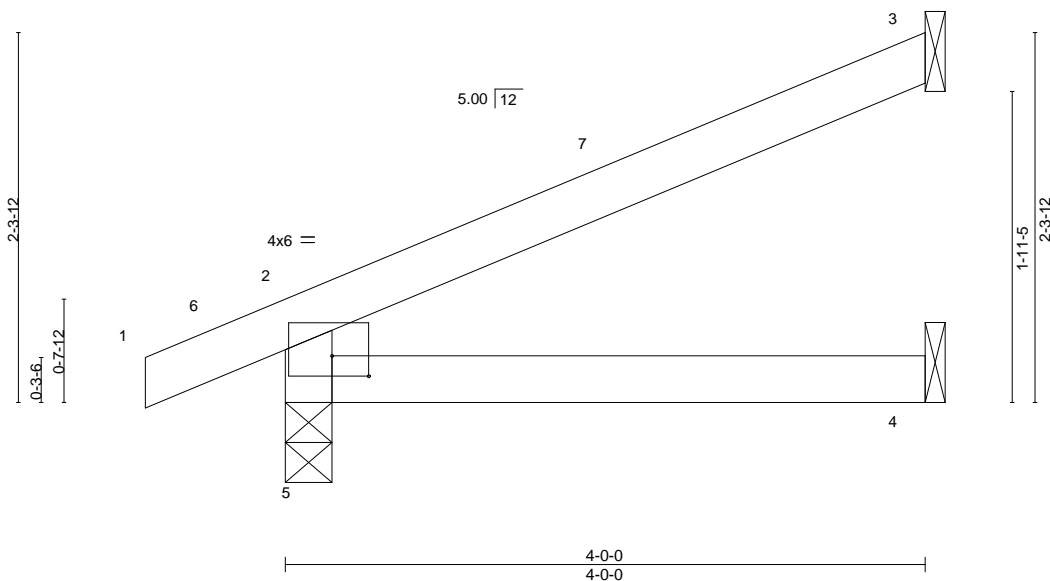


Plate Offsets (X,Y)--		[2:0-1-12,0-0-12], [2:0-2-12,0-1-8], [5:0-0-0,0-1-12]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24
TCDL 20.0	Lumber DOL	1.15	BC 0.13
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-AS
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.01 4-5 >999 240
			Vert(CT) -0.02 4-5 >999 180
			Horz(CT) 0.01 3 n/a n/a
			PLATES MT20 GRIP 197/144
			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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=66(LC 12)
Max Uplift 3=-52(LC 12), 5=-28(LC 12)
Max Grav 3=150(LC 1), 4=73(LC 3), 5=313(LC 1)

FORCES.

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

TOP CHORD 2-5=-284/150

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



January 4, 2021

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

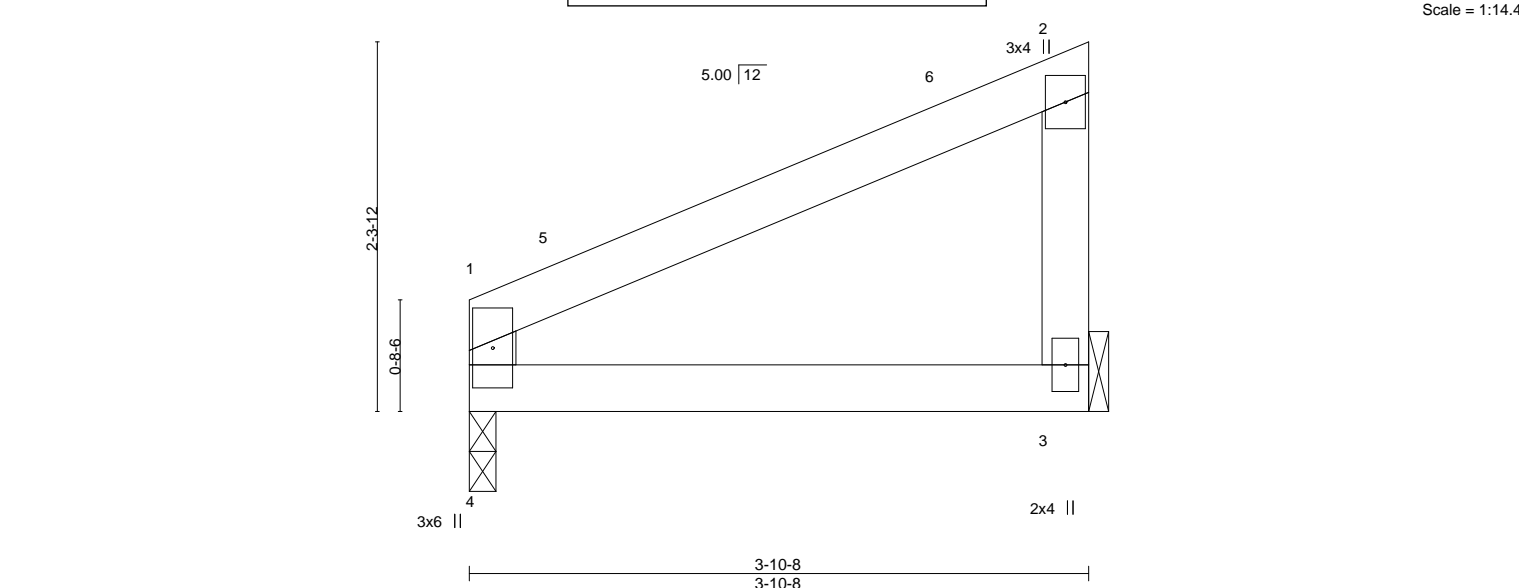
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2592336	Truss J7	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:ggMHuYjvKTSNSqRK_pdyByzXhju-pJa77GyJfQQPyDy81NNAzpp3MmwS_ut7HXXv3fy3UZS 01/14/2021 3-10-8 3-10-8		Summit/16 Woodside/MO I44187992 Job Reference (optional) 8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:41 2020 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.01	3-4	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.01	3-4	>999	180	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

REACTIONS. (size) 4=0-2-0, 3=Mechanical
 Max Horz 4=74(LC 9)
 Max Uplift 4=-14(LC 12), 3=-31(LC 12)
 Max Grav 4=197(LC 1), 3=197(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 3-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
 - 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.



January 4, 2021

Job 2592336	Truss J8	Truss Type Roof Special	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021 </div>	Ply 1	Summit/16 Woodside/MO 144187993
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:ggMHuYjvKTSNSqRK_pqYBzXhju-HV8VKczxQjYGaMXKb5uPW0MGjKE_jL9HVBHSb5y3UZR 8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:42 2020 Page 1 Job Reference (optional)		

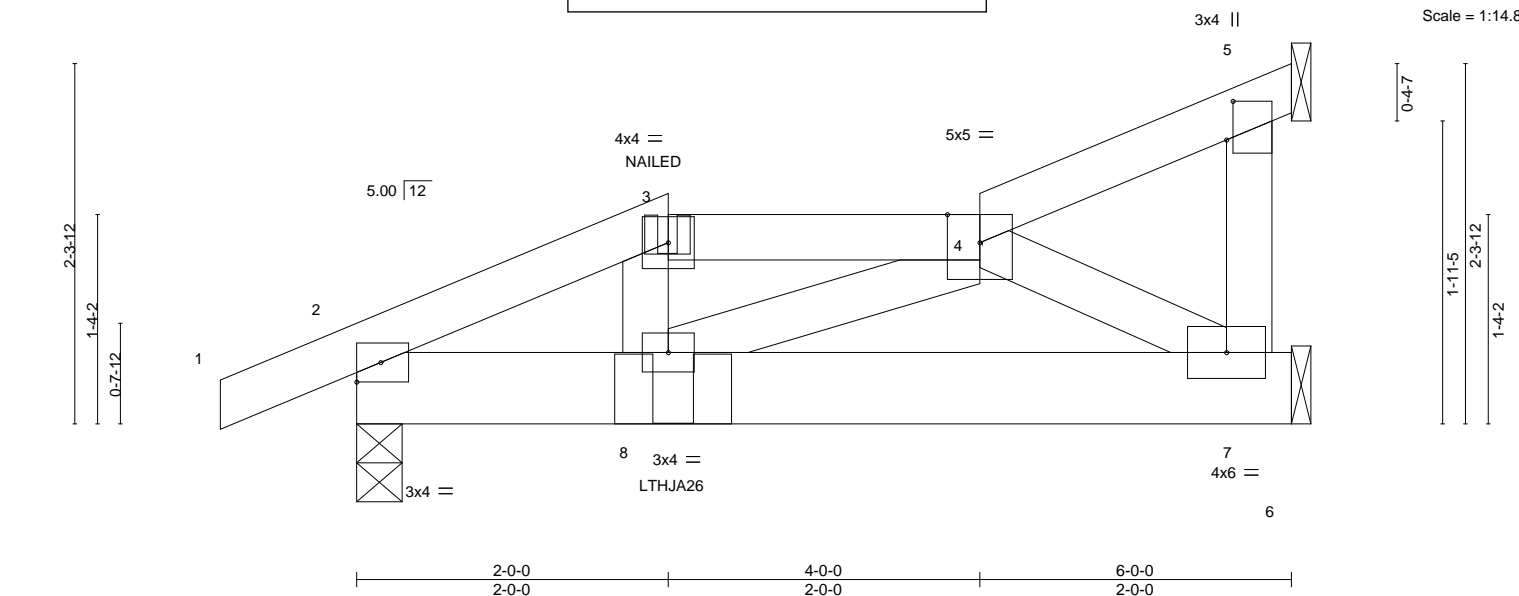


Plate Offsets (X,Y)-- [5:0-3-0,0-0-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	8	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MP							Weight: 26 lb	FT = 20%

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

REACTIONS. (size) 5=Mechanical, 7=Mechanical, 2=0-3-8
 Max Horz 2=74(LC 7)
 Max Uplift 5=-21(LC 5), 7=-34(LC 8), 2=-85(LC 8)
 Max Grav 5=78(LC 1), 7=279(LC 1), 2=488(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-569/88, 3-4=-493/91
 BOT CHORD 2-8=-86/500, 7-8=-74/377
 WEBS 4-7=-438/105

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) 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) 5, 7, 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 10) 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.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-90, 3-4=-90, 4-5=-90, 6-9=-20



January 4, 2021

Continued on page 2

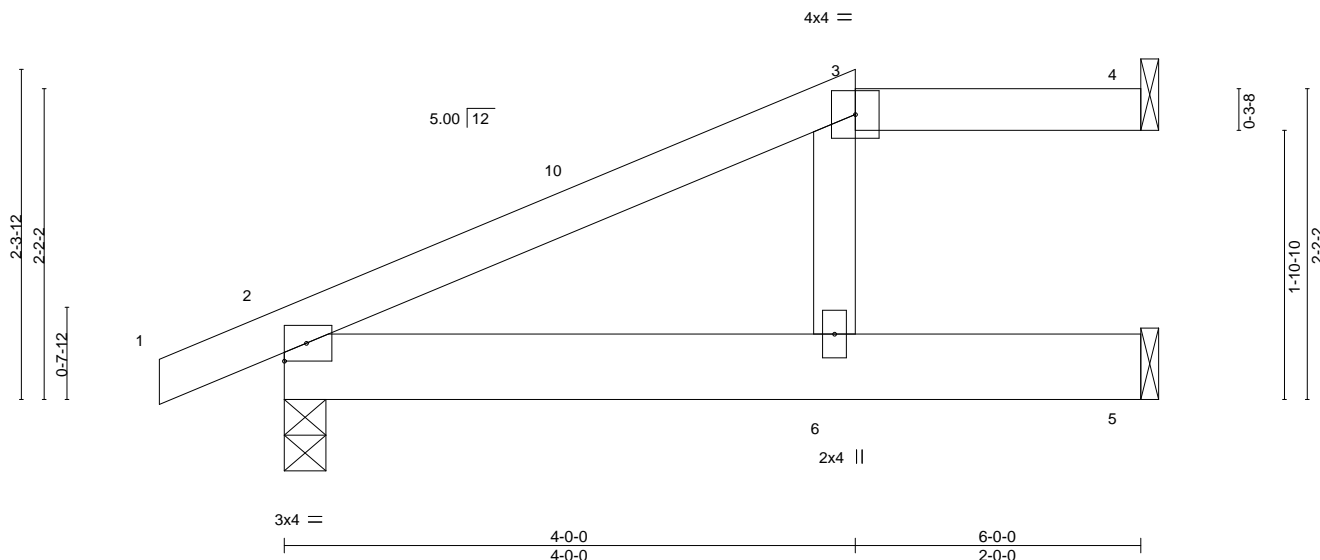
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job		Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021</div>		Ply	Summit/16 Woodside/MO
2592336		J8	Roof Special			Girder	I44187993
Builders FirstSource (Valley Center), Valley Center, KS - 67147,				8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:42 2020 Page 2 ID:ggMHuYjvKTSNSqRK_pqYB yzXhju-HV8VKczxQjYGaMXKb5uPW0MGjKE_jL9HVBHSb5y3UZR			
LOAD CASE(S) Standard Concentrated Loads (lb)				Job Reference (optional)			

Job 2592336	Truss J9	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:ggMHuYjvKTSNSqRK_pqYByzXhju-lhhtYx_ZB1h7CW5W8oPe2EuPAkWSosQkr007Yy3UZQ 01/14/2021		Summit/16 Woodside/MO 144187994 Job Reference (optional) 8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:43 2020 Page 1 ByZxHju-lhhtYx_ZB1h7CW5W8oPe2EuPAkWSosQkr007Yy3UZQ
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					

Scale: 3/4"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	-0.04	6-9	>999	240	MT20	197/144
BCLL 20.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.09	6-9	>825	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.05	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 21 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
 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=69(LC 12)
 Max Uplift 4=24(LC 8), 2=40(LC 12), 5=12(LC 12)
 Max Grav 4=87(LC 1), 2=411(LC 1), 5=234(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2E) 4-0-0 to 5-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 4, 2021

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

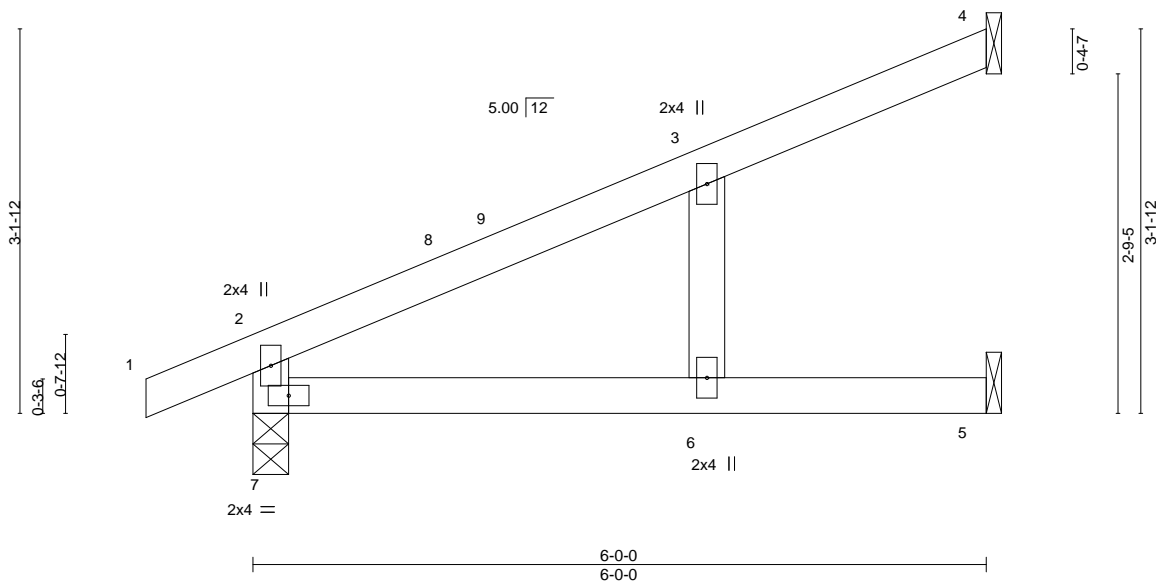
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss J10	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:ggMHuYjvKTSNSqRK_pqYByzXhju-p12iZSlefBHpQb9tXJZBnDc634?5VCmMOWWy8y3UZj 01/14/2021		Summit/16 Woodside/MO 144187995 Job Reference (optional) 8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:24 2020 Page 1
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:24 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-p12iZSlefBHpQb9tXJZBnDc634?5VCmMOWWy8y3UZj	
-0-10-8 0-10-8		3-8-9 3-8-9		6-0-0 2-3-7	

Scale = 1:18.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	0.09	6-7	>790	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.17	6-7	>402	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.04	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 5=Mechanical, 7=0-3-8
 Max Horz 7=97(LC 12)
 Max Uplift 4=45(LC 12), 5=15(LC 12), 7=33(LC 12)
 Max Grav 4=180(LC 1), 5=131(LC 1), 7=419(LC 1)

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

TOP CHORD 2-7=319/131

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



January 4, 2021

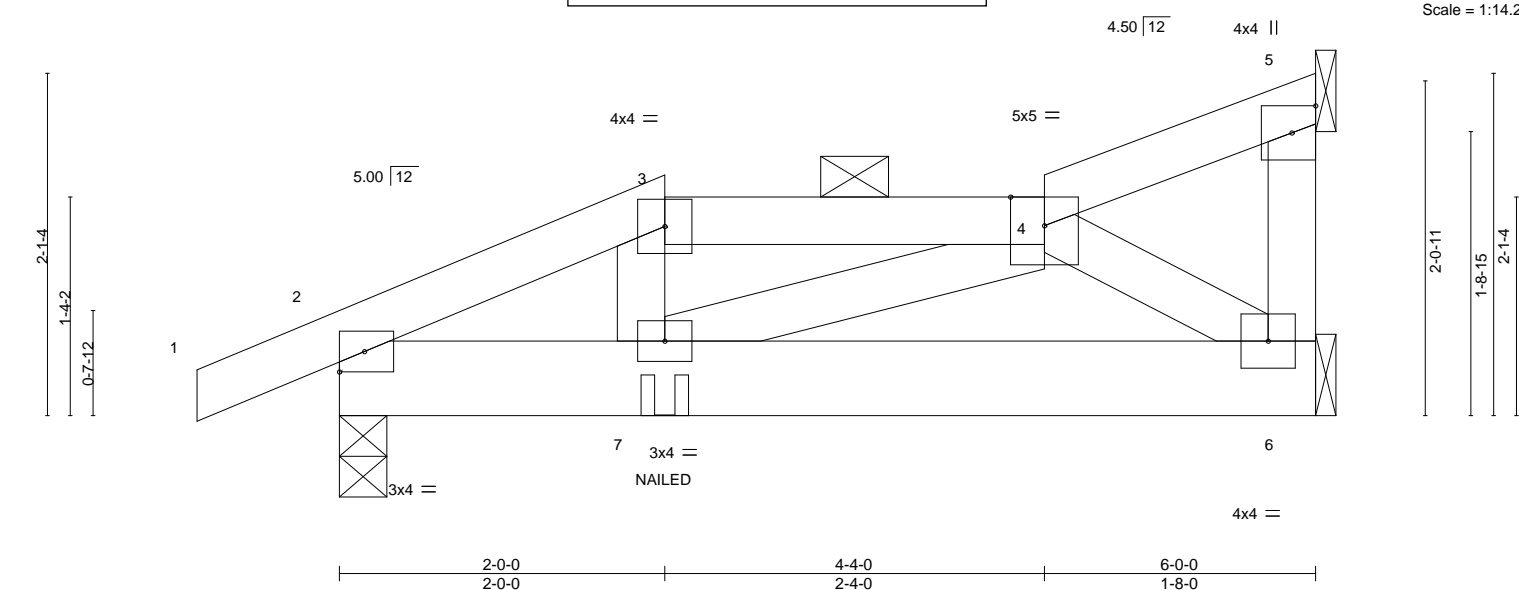
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss J11	Truss Type Roof Special	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021 </div>	Ply 1	Summit/16 Woodside/MO 144187996
Builders FirstSource (Valley Center), Valley Center, KS - 67147,		8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:25 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pcyByzXhju-HEc4nmnGQVPg2lj3504QJR8LOUR_Ef1nb2f3Vay3UZI			



LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	-0.01	7	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.01	6-7	>999	180	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	6	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						
								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=69(LC 7)
 Max Uplift 6=40(LC 8), 2=88(LC 8), 5=19(LC 5)
 Max Grav 6=286(LC 1), 2=490(LC 1), 5=68(LC 1)

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

TOP CHORD 2-3=574/91, 3-4=500/95
 BOT CHORD 2-7=86/504, 6-7=69/349
 WEBS 4-6=421/101

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) 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) 6, 2, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 1-3=90, 3-4=90, 4-5=90, 6-8=20
- Concentrated Loads (lb)
 Vert: 7=121(B)



January 4, 2021

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

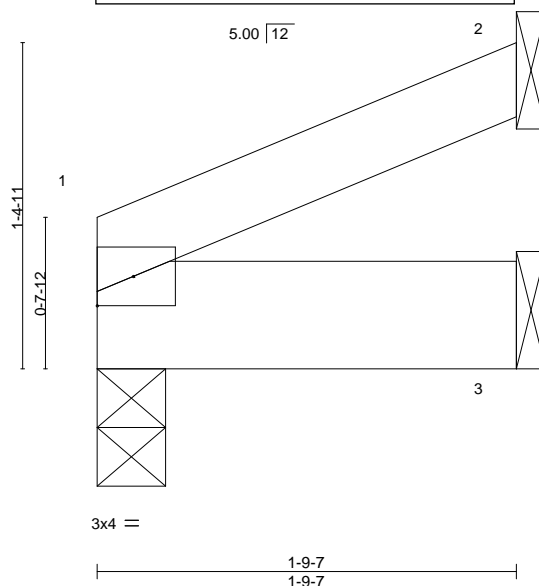
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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss J12	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021	Ply 1	Summit/16 Woodside/MO I44187997
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:26 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-IQASz7nvBpXXfVfkbsehyttoAz6AwqiPc11y3UZh		

Scale = 1:9.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	-0.00	6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						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=27(LC 33)
Max Uplift 2=-20(LC 33), 3=-1(LC 12)
Max Grav 1=266(LC 1), 2=58(LC 1), 3=43(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 169 lb down and 47 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

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-90, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-169



January 4, 2021

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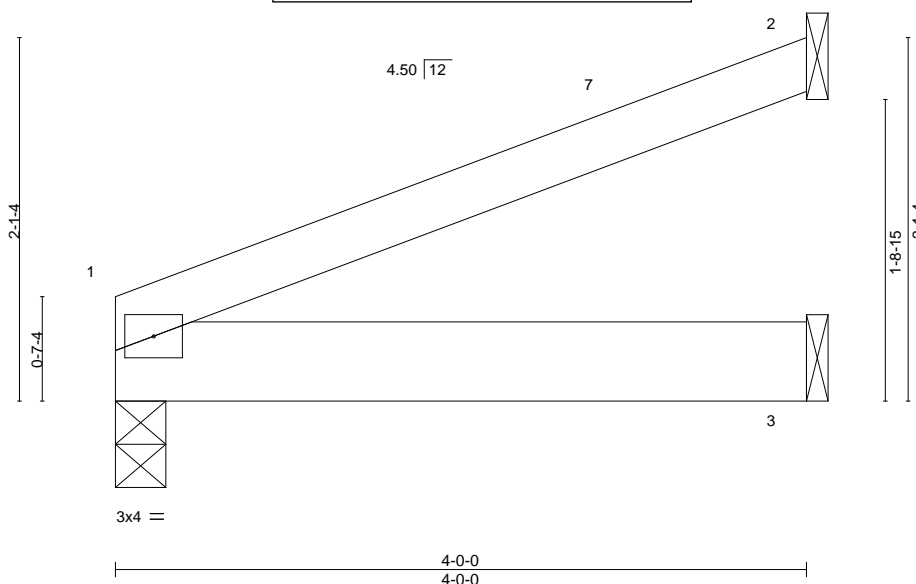
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2592336	Truss J13	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:ggMHuYjvKTSNSqRK_pqYByzXhju-DckqBToXy6fOH3tSCR7uPsEg4H6XiZP33M8AZTy3UZg 01/14/2021		Summit/16 Woodside/MO I44187998 Job Reference (optional) 8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:27 2020 Page 1
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					



Scale = 1:13.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	-0.01	3-6	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.01	3-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						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=54(LC 12)
Max Uplift 1=-12(LC 12), 2=-43(LC 12)
Max Grav 1=217(LC 1), 2=135(LC 1), 3=93(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



January 4, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2592336	Truss J14	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021		Ply 1 Summit/16 Woodside/MO 144187999 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:27 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-DckqBToXy6fOH3tSCR7uPsEgZH5piZP33M8AZTy3UZg
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			

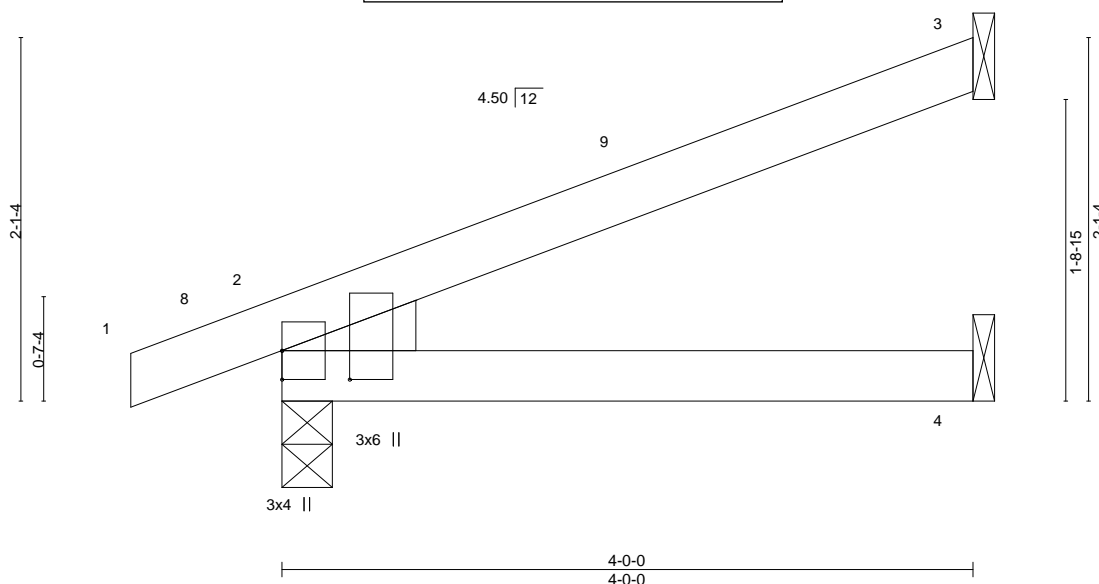


Plate Offsets (X,Y)--		[2:0-2-0,0-4-11]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) 0.02 4-7 >999 240	MT20	197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.03 4-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 2 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS			
				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=66(LC 8)
Max Uplift 3=-44(LC 12), 2=-40(LC 8)
Max Grav 3=147(LC 1), 2=304(LC 1), 4=77(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



January 4, 2021

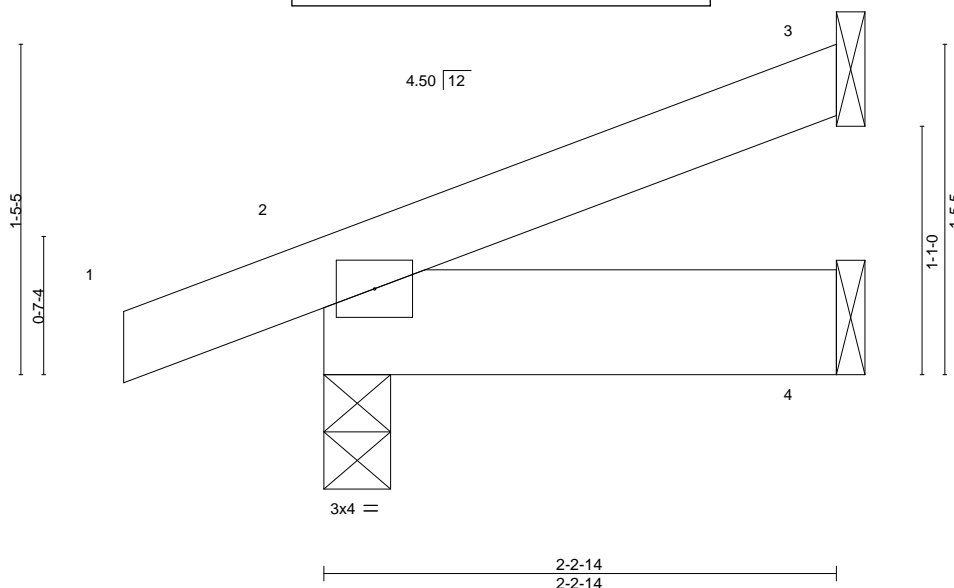
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2592336	Truss J15	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply 1 Summit/16 Woodside/MO I44188000
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:ggMHuYjvKTSNSqRK_pqYByzXhju-hpHCOp9jQoFvDSem9e7x3mtshUfR0fDH0uj5vy3UZf 01/14/2021		



Scale = 1:10.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						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=43(LC 8)
Max Uplift 3=22(LC 12), 2=39(LC 8)
Max Grav 3=67(LC 1), 2=214(LC 1), 4=48(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4, 2021

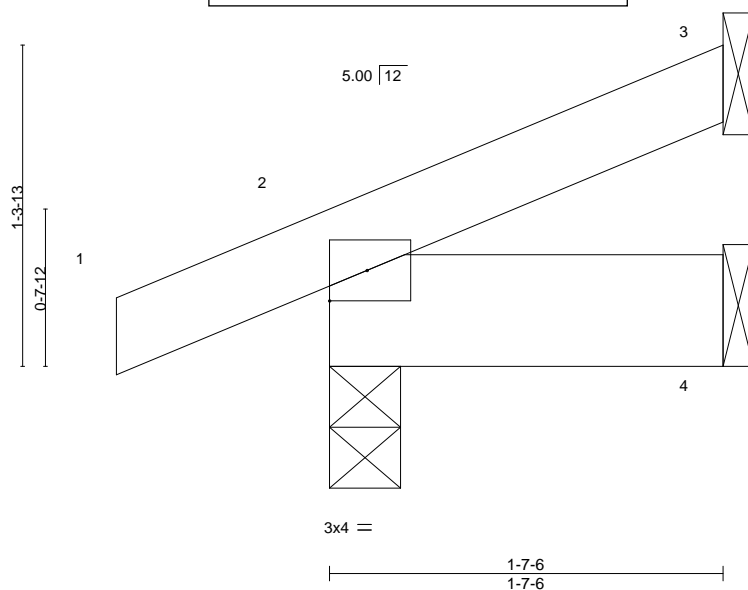
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2592336	Truss J16	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply 1 Summit/16 Woodside/MO I44188001
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		ID:ggMHuYjvKTSNSqRK_pqYBzXhju-9?rbc9pnUkw6WN1qKs9MUHJ2b5q9ATvMWgdGeLy3UZe 01/14/2021	



Scale = 1:9.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	7	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	7	>999	180	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP						
								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=36(LC 12)
Max Uplift 3=-17(LC 12), 2=-24(LC 8)
Max Grav 3=48(LC 1), 2=188(LC 1), 4=32(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4, 2021

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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2592336	Truss J17	Truss Type Jack-Open	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021 </div>	Ply 1	Summit/16 Woodside/MO 144188002
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:ggMHuYjvKTSNSqRK_pqYByzXhju-dBPzpVqPF12z8Wc1uZgb0Us9IV7kvw9WIKNqAoy3UZd 8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:30 2020 Page 1 Job Reference (optional)		

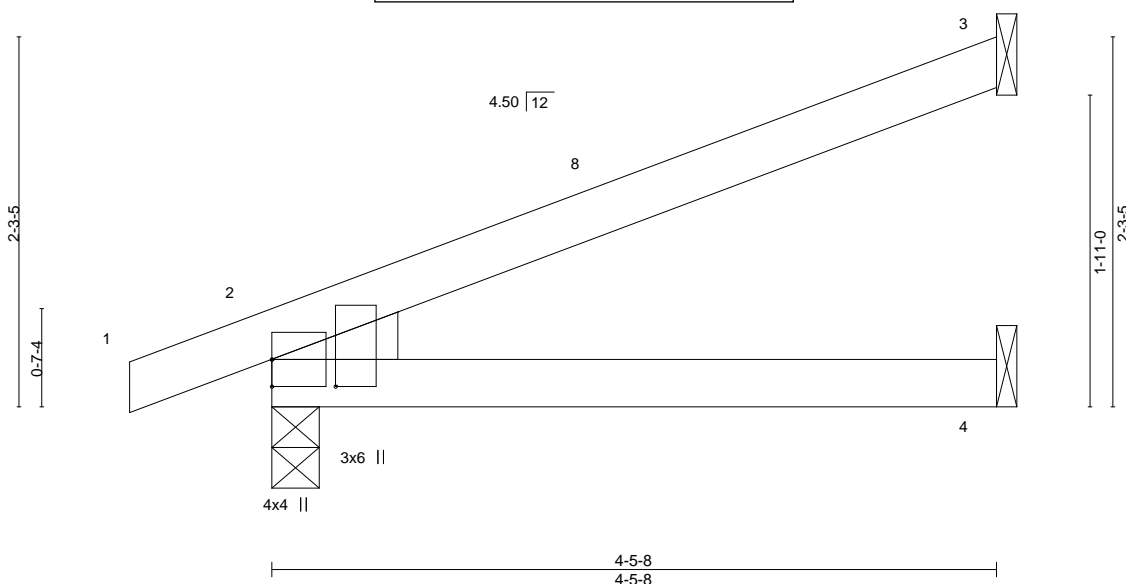


Plate Offsets (X,Y)-- [2:0-2-0,0-4-11]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.02	4-7	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-AS							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=72(LC 8)
 Max Uplift 3=50(LC 12), 2=41(LC 8)
 Max Grav 3=166(LC 1), 2=328(LC 1), 4=86(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



January 4, 2021

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss J18	Truss Type Jack-Closed	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply 1	Summit/16 Woodside/MO 144188003
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:ggMHuYjvKTSNSqRK_pqYByzXhju-5OzL1rr10LAqmgBDRHBqZIONduUheLxfz_6NiEy3UZc			
2-2-12 2-2-12			4-5-8 2-2-12			

01/14/2021

8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:31 2020 Page 1

Job Reference (optional)

Scale = 1:14.2

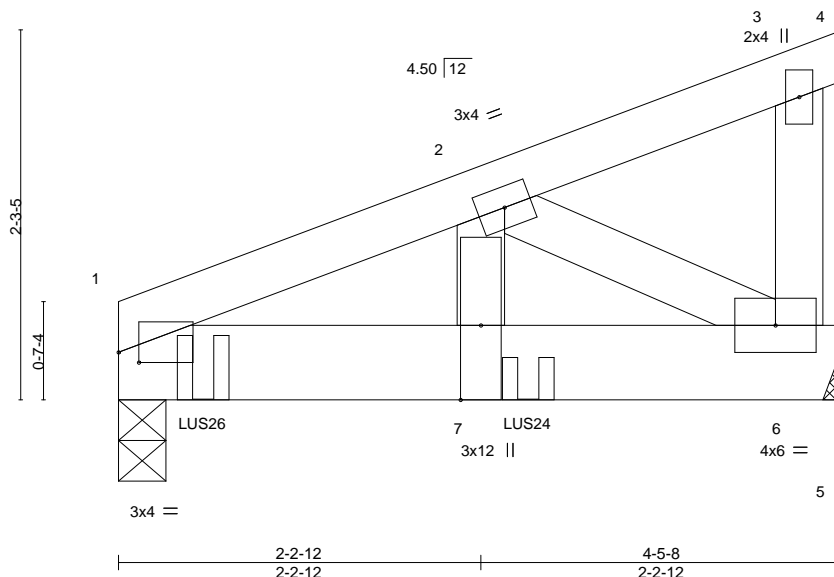


Plate Offsets (X,Y)--		[1:0-1-8,0-0-12]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10
TCDL 20.0	Lumber DOL	1.15	BC 0.14
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.16
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MP
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.01 7 >999 240
			Vert(CT) -0.01 7 >999 180
			Horz(CT) 0.00 6 n/a n/a
			PLATES GRIP
			MT20 197/144
			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 4-5-8 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=71(LC 7)
 Max Uplift 1=195(LC 8), 6=137(LC 8)
 Max Grav 1=1276(LC 1), 6=673(LC 1)

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

TOP CHORD 1-2=1004/189
 BOT CHORD 1-7=189/927, 6-7=189/927
 WEBS 2-7=125/645, 2-6=1053/229

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=195, 6=137.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 0-6-4 from the left end to connect truss(es) to back face of bottom chord.
- 8) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 2-6-4 from the left end to connect truss(es) to back face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 1-3=-90, 3-4=-40, 5-8=-20
 Concentrated Loads (lb)
 Vert: 7=634(B) 10=-839(B)



January 4, 2021

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

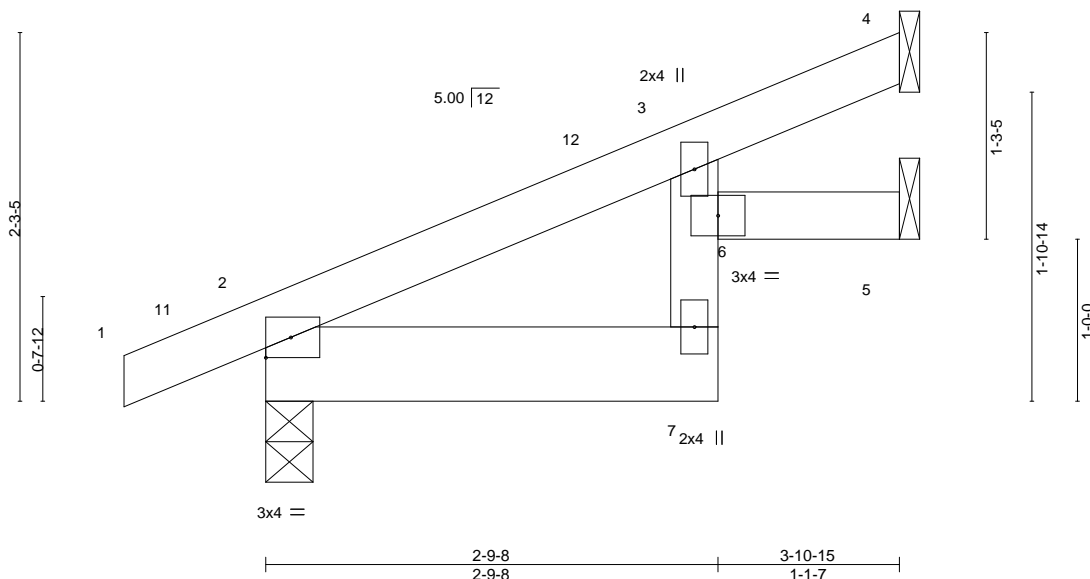
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss J19	Truss Type Jack-Open	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021 </div>	Ply 1	Summit/16 Woodside/MO 144188004
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:31 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-5OzL1rr10LAqmgBDRHBqZiONbuTleNPfz_6NiEy3UZc	
-0-10-8 0-10-8		2-9-8 2-9-8		3-10-15 1-1-7	

Scale = 1:14.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.01	7	>999	240	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.01	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						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=70(LC 12)
Max Uplift 4=25(LC 12), 2=27(LC 12), 5=13(LC 12)
Max Grav 4=101(LC 1), 2=299(LC 1), 5=102(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 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.



January 4, 2021

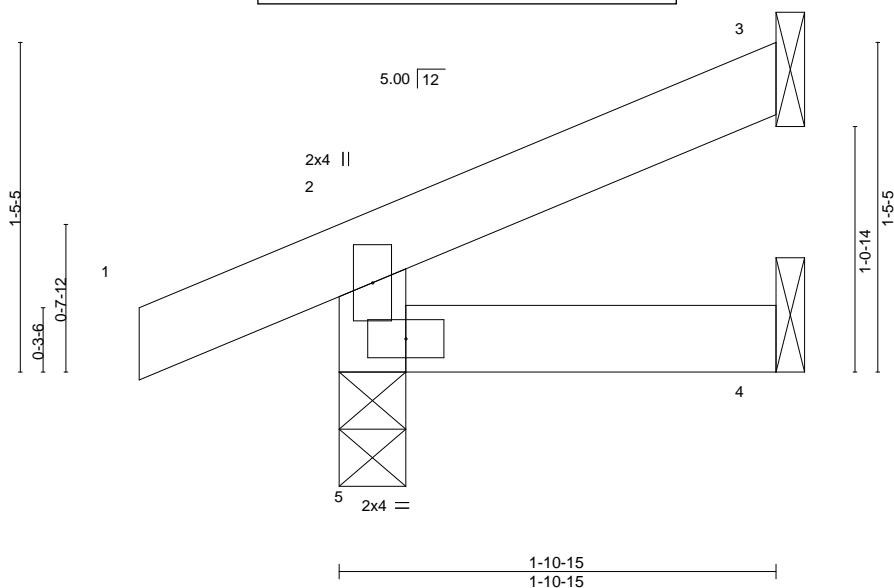
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2592336	Truss J20	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:ggMHuYjvKTSNSqRK_pqYByzXhju-2m55RXslYyQY?_LbZiDle7UjEiBz6HuyRlUn7y3UZa		Summit/16 Woodside/MO 144188005 Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8,240 sq ft 01/14/2021 1-10-15 1-10-15		



Scale = 1:10.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	5	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999	180	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						
								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 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8
 Max Horz 5=35(LC 12)
 Max Uplift 3=23(LC 12), 5=28(LC 8)
 Max Grav 3=57(LC 1), 4=31(LC 3), 5=215(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4, 2021

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

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss J22	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:ggMHuYjvKTSNSqRK_pqYByzXhju-_9CcsCuY4agFEIU_g7GmjYzY4WnwaB4Fub4br?y3UZy 01/14/2021		Summit/16 Woodside/MO 144188007 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:35 2020 Page 1 4-3-8 4-3-8 6-0-0 1-8-8
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			

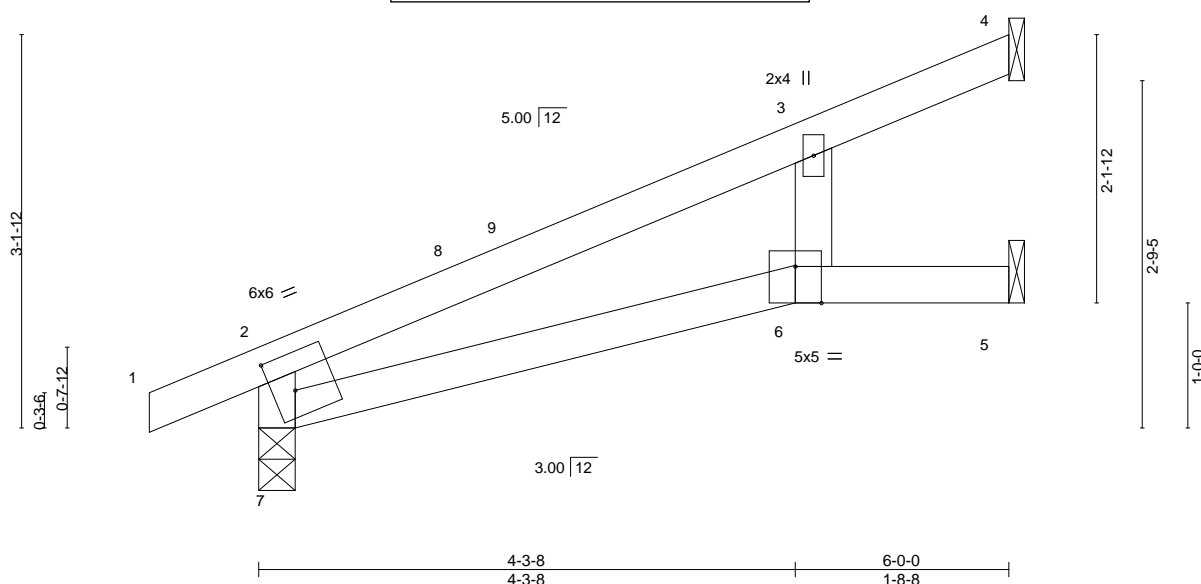


Plate Offsets (X,Y)--	[2:0-1-14,0-0-0], [2:0-2-2,0-3-8], [6:0-2-8,Edge], [7:0-0-11,0-1-11]	
LOADING (psf)	SPACING-	CSI.
TCLL 25.0	2-0-0	TC 0.51
TCDL 20.0	Plate Grip DOL 1.15	BC 0.44
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02
BCDL 10.0	Rep Stress Incr YES	Matrix-AS
	Code IRC2018/TPI2014	
		DEFL.
		in (loc) l/defl L/d
		Vert(LL) 0.08 6-7 >832 240
		Vert(CT) -0.16 6-7 >427 180
		Horz(CT) 0.04 4 n/a n/a
		PLATES MT20
		GRIP 197/144
		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=96(LC 12)
 Max Uplift 4=-35(LC 12), 5=-25(LC 12), 7=-33(LC 12)
 Max Grav 4=174(LC 1), 5=136(LC 1), 7=419(LC 1)

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

TOP CHORD 2-7=-337/141

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



January 4, 2021

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

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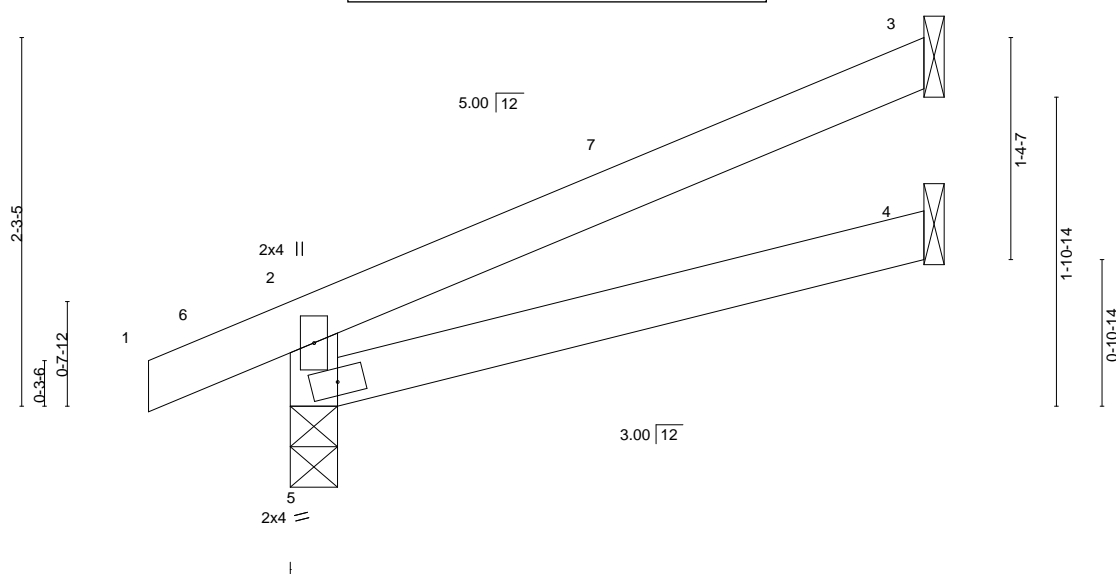
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss J23	Truss Type Jack-Open	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>	Ply 1	Summit/16 Woodside/MO 144188008
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:ggMHuYjvKTSNSqRK_pqYByzXhju-_9CscCuY4agFEIU_g7GmjYZ1WriaBOFub4br?y3UZY 01/14/2021		



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.01	4-5	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.02	4-5	>999	180	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						
								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=64(LC 12)
 Max Uplift 3=-51(LC 12), 5=-27(LC 12)
 Max Grav 3=145(LC 1), 4=72(LC 3), 5=308(LC 1)

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

TOP CHORD 2-5=-280/148

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4, 2021

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

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

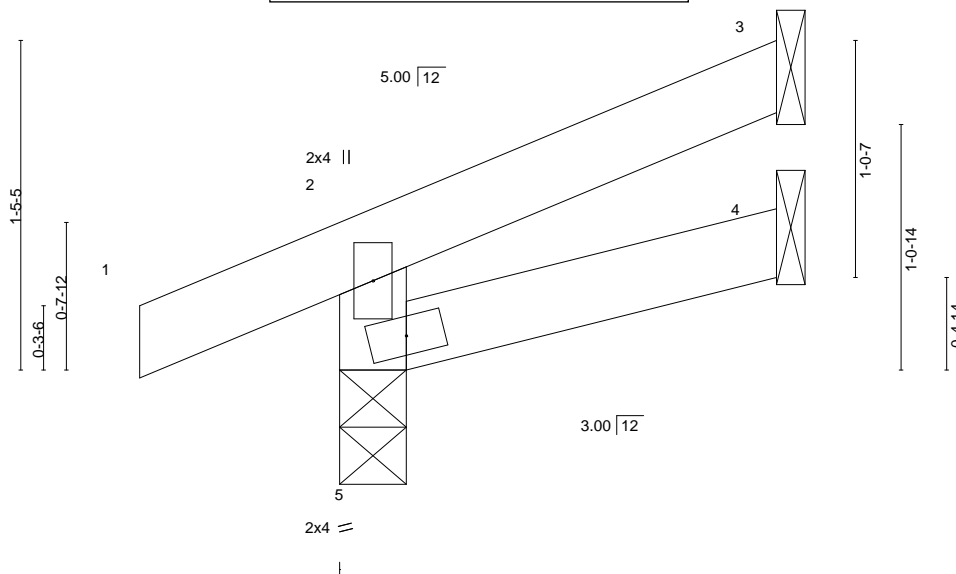
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss J24	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI ID:ggMHuYjvKTSNSqRK_pqYByzXhju-SLmE4YvArto6sR3AEqn?GI6ETvDdJeeO7Fq8NSy3UZx		Summit/16 Woodside/MO 144188009 Job Reference (optional) 8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:36 2020 Page 1
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			-0-10-8 0-10-8 01/14/2021 1-10-15 1-10-15		

Scale = 1:10.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	5	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999	180	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						
								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=35(LC 12)
 Max Uplift 3=24(LC 12), 5=-27(LC 8)
 Max Grav 3=57(LC 1), 4=31(LC 3), 5=215(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4, 2021

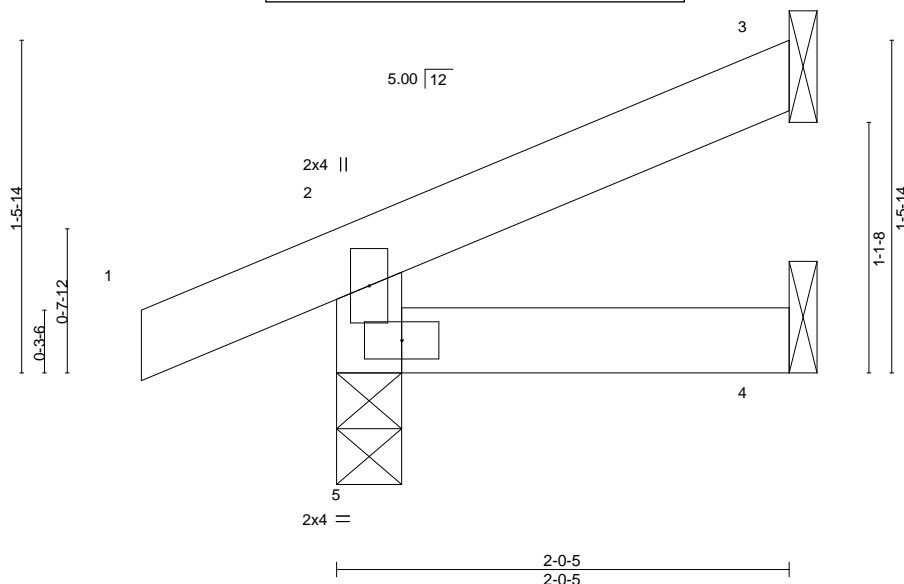
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss J25	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply 1 Summit/16 Woodside/MO I44188010
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			ID:ggMHuYjvKTSNSqRK_pqYByzXhju-wXKcHuvocBwzUbeNoY1EpzePDJZs25uYmVziwuy3UZW 01/14/2021		



Scale = 1:10.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	5	>999	240	MT20
TCDL 20.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999	180	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MR						
								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 2-0-5 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=36(LC 12)
 Max Uplift 3=24(LC 12), 5=27(LC 8)
 Max Grav 3=60(LC 1), 4=32(LC 3), 5=218(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss LG1	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021		Summit/16 Woodside/MO 144188011 Job Reference (optional) ID:ggMHuYjvKTSnSqRK_pqYByzXhju-DuFFIH?ByLp_pggjiWwtbRRce8yLBCcZzVmZf_y3UZP
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8,240 sq ft 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:44 2020 Page 1 23-10-1 15-11-6 25-8-12 1-10-11		

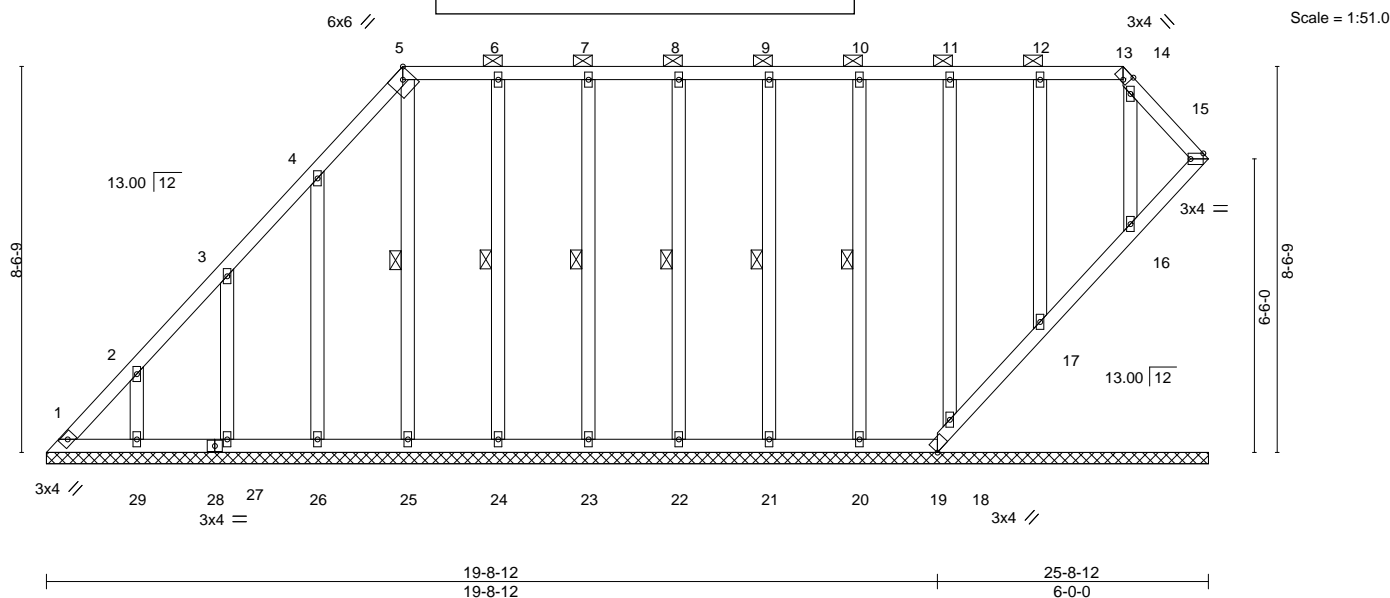


Plate Offsets (X,Y)--		[5:0-2-9,Edge], [13:0-1-7,Edge], [15:Edge,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08
TCDL 20.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) -0.00 15 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 153 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.): 5-13.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 10-20, 9-21, 8-22, 5-25, 6-24, 7-23

REACTIONS.

All bearings 25-8-12.
 (lb) - Max Horz 1=262(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 19, 16, 17, 18, 20, 21, 22, 25, 24, 23 except 29=113(LC 12), 27=111(LC 12), 26=115(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 15, 19, 16, 17, 18, 20, 21, 22, 29, 27, 26, 25, 24, 23

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-323/233

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-10-11, Exterior(2R) 7-10-11 to 12-0-0, Interior(1) 12-0-0 to 23-10-1, Exterior(2E) 23-10-1 to 25-6-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 19, 16, 17, 18, 20, 21, 22, 25, 24, 23 except (jt=lb) 29=113, 27=111, 26=115.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15, 16, 17, 18.
- This truss 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.



January 4, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss LG2	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Summit/16 Woodside/MO I44188012 Job Reference (optional) 8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:46 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-9GN0Az0SUy3i3_q5qwyLgsWxHxdkf7IsQpFgksy3UZn
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		7-10-6 7-10-6 01/14/2021 15-8-12 7-10-6	
			4x4 =		

Scale = 1:51.2

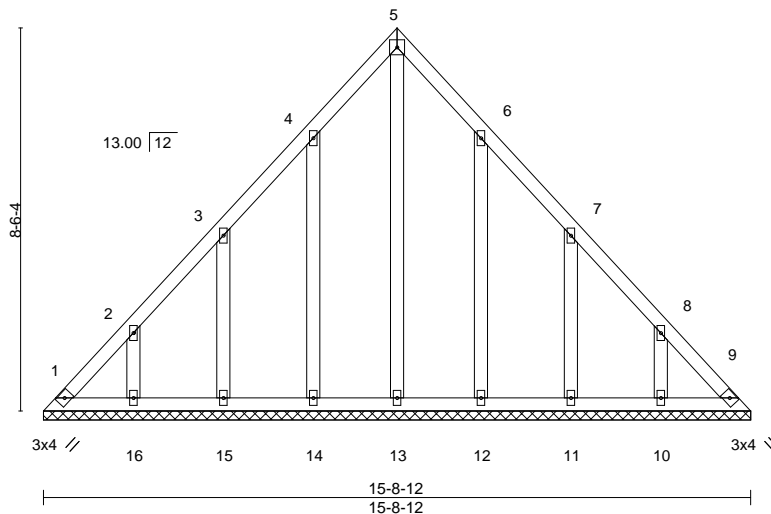


Plate Offsets (X,Y)--		[2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0]	
LOADING (psf)		SPACING-	2-0-0
TCLL 25.0		Plate Grip DOL	1.15
TCDL 20.0		Lumber DOL	1.15
BCLL 0.0 *		Rep Stress Incr	YES
BCDL 10.0		Code	IRC2018/TPI2014
		CSI.	
		TC	0.07
		BC	0.04
		WB	0.18
		Matrix-S	
		DEFL.	
		in (loc)	l/defl L/d
		Vert(LL)	n/a - n/a 999
		Vert(CT)	n/a - n/a 999
		Horz(CT)	0.00 9 n/a n/a
		PLATES	GRIP
		MT20	197/144
		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=-196(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 10=-112(LC 13), 11=-115(LC 13), 12=-106(LC 13), 16=-113(LC 12), 15=-114(LC 12), 14=-108(LC 12)
 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.
 TOP CHORD 1-2=-262/174

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-10-6, Exterior(2R) 7-10-6 to 10-10-6, Interior(1) 10-10-6 to 15-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 10=-112, 11=-115, 12=-106, 16=-113, 15=-114, 14=-108.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4,2021

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



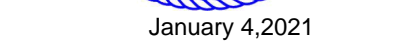
16023 Swingley Ridge Rd
 Chesterfield, MO 63017



LUMBER		BRACING	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

1) Unbal

- 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 104



Job 2592336	Truss LG4	Truss Type GABLE	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>	Ply 1	Summit/16 Woodside/MO 144188014
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:48 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-6fVmbf2i0ZJPIH_UxL?plHbHEIJv72r9u7knply3UZL		

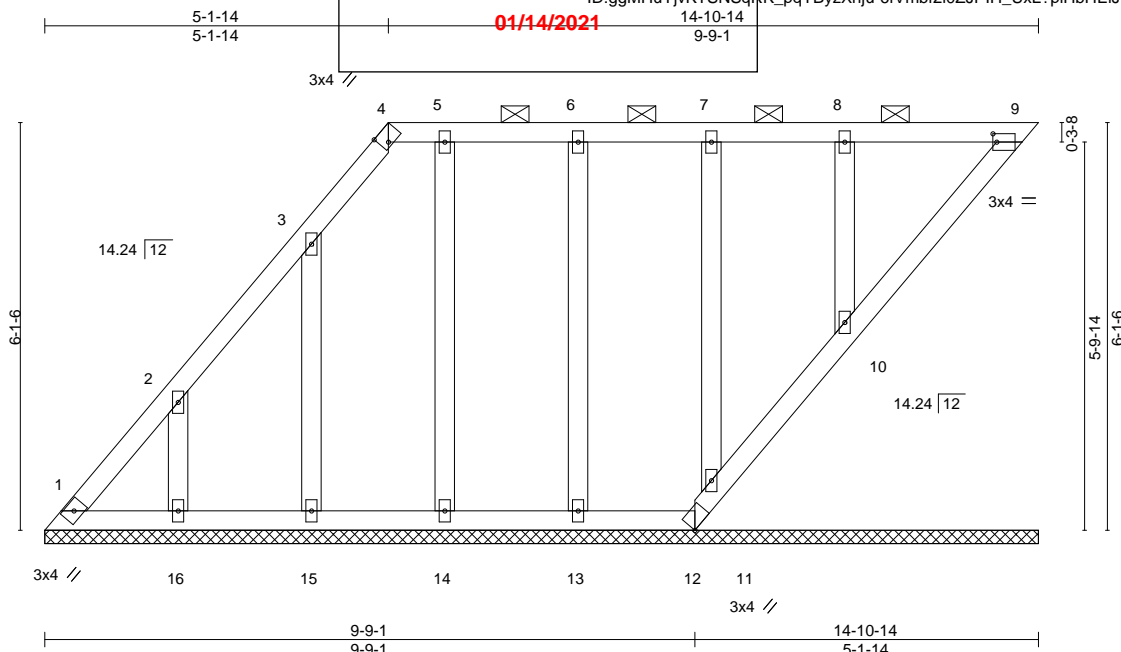


Plate Offsets (X,Y)--		[4:0-1-5,Edge], [9:0-0-11,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10
TCDL 20.0	Lumber DOL	1.15	BC 0.06
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) -0.00 9 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			Weight: 68 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 14-10-14.
(lb) - Max Horz 1=215(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 12, 14, 13, 11, 10 except 16=138(LC 12), 15=104(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12, 15, 14, 13, 11 except 16=260(LC 19), 10=309(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-12 to 3-3-12, Interior(1) 3-3-12 to 5-1-14, Exterior(2R) 5-1-14 to 8-0-0, Interior(1) 8-0-0 to 14-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 12, 14, 13, 11, 10 except (it=lb) 16=138, 15=104.
- 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.



January 4, 2021

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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

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2592336	Truss LG5	Truss Type GABLE	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI </div>		Summit/16 Woodside/MO I44188015 Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8,240 sq ft 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:49 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-ar38o73KntRGwRZgV3W2IV8SW9fRsU2J6nTKLBy3UZK		
			7-10-6 01/14/2021 15-8-12 7-10-6 7-10-6		

4x4 =

Scale = 1:51.2

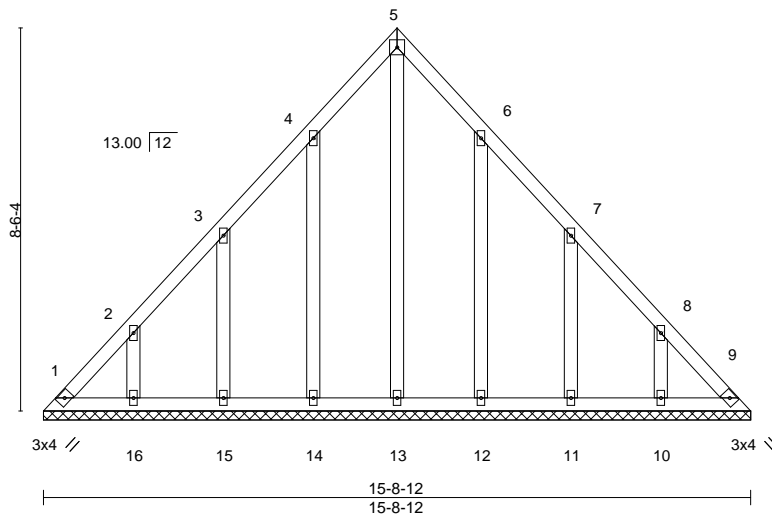


Plate Offsets (X,Y)--		[2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0]	
LOADING (psf)		SPACING-	2-0-0
TCLL 25.0		Plate Grip DOL	1.15
TCDL 20.0		Lumber DOL	1.15
BCLL 0.0 *		Rep Stress Incr	YES
BCDL 10.0		Code	IRC2018/TPI2014
		CSI.	
		TC 0.07	
		BC 0.04	
		WB 0.18	
		Matrix-S	
		DEFL.	
		in (loc)	l/defl L/d
		Vert(LL) n/a -	n/a 999
		Vert(CT) n/a -	n/a 999
		Horz(CT) 0.00 9	n/a n/a
		PLATES	GRIP
		MT20	197/144
		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=-196(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 10=-112(LC 13), 11=-115(LC 13), 12=-106(LC 13), 16=-113(LC 12), 15=-114(LC 12), 14=-108(LC 12)
 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.
 TOP CHORD 1-2=-262/174

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 7-10-6, Exterior(2R) 7-10-6 to 10-10-6, Interior(1) 10-10-6 to 15-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 10=-112, 11=-115, 12=-106, 16=-113, 15=-114, 14=-108.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4, 2021

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss LG6	Truss Type GABLE	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021 </div>	Ply 1 Summit/16 Woodside/MO 144188016 Job Reference (optional) 8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:51 2020 Page 1 ID:ggMHuYjvKTSNsQrK_pqYByzXhju-WEAvDg4aJUh_9lj3cUYWNwDo4yK6KPQba5yRP4y3UZl 27-8-12 5-10-11
Builders FirstSource (Valley Center), Valley Center, KS - 67147,				

Scale = 1:46.5

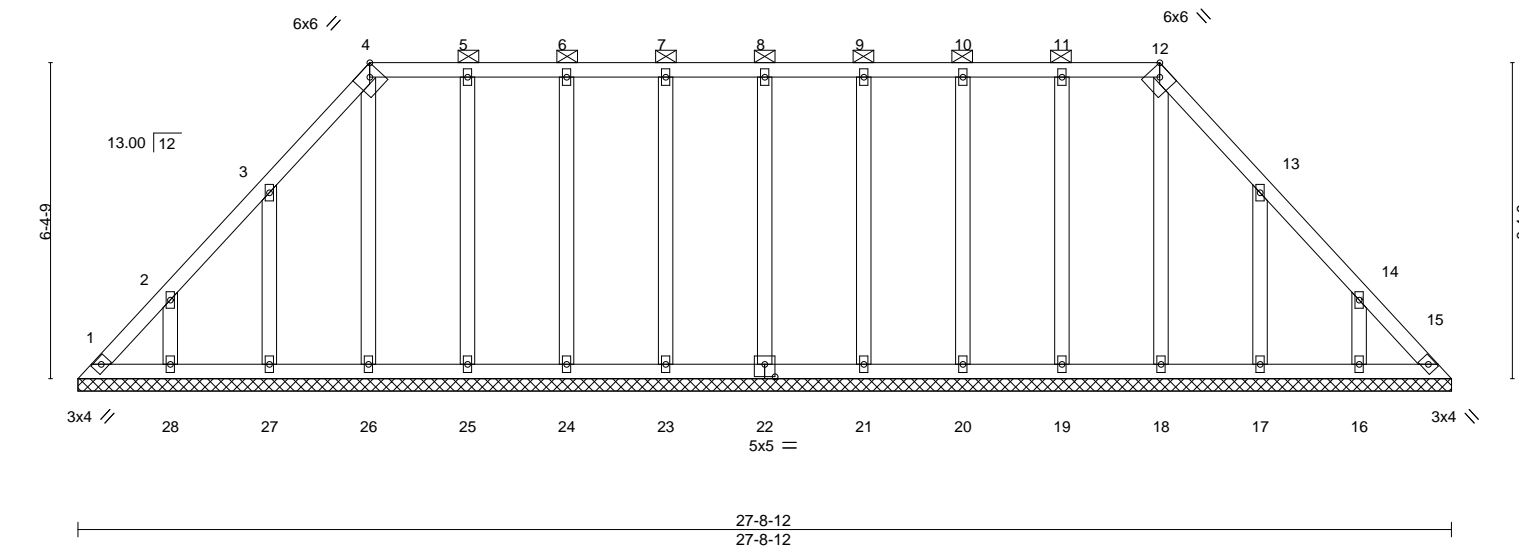


Plate Offsets (X,Y)--		[4:0-2-9,Edge], [12:0-2-9,Edge], [22:0-2-8,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06
TCDL 20.0	Lumber DOL	1.15	BC 0.02
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.01 15 n/a n/a
			PLATES
			MT20
			GRIP
			197/144
			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=145(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 22, 23, 24, 25, 26, 21, 20, 19 except 27=122(LC 12), 28=107(LC 12), 17=122(LC 13), 16=108(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 15, 22, 23, 24, 25, 26, 28, 21, 20, 19, 18, 16 except 27=257(LC 19), 17=257(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 5-10-11, Exterior(2R) 5-10-11 to 9-10-6, Interior(1) 9-10-6 to 21-10-1, Exterior(2R) 21-10-1 to 25-10-6, Interior(1) 25-10-6 to 27-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 22, 23, 24, 25, 26, 21, 20, 19 except (jt=lb) 27=122, 28=107, 17=122, 16=108.
- This truss 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.



January 4,2021

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

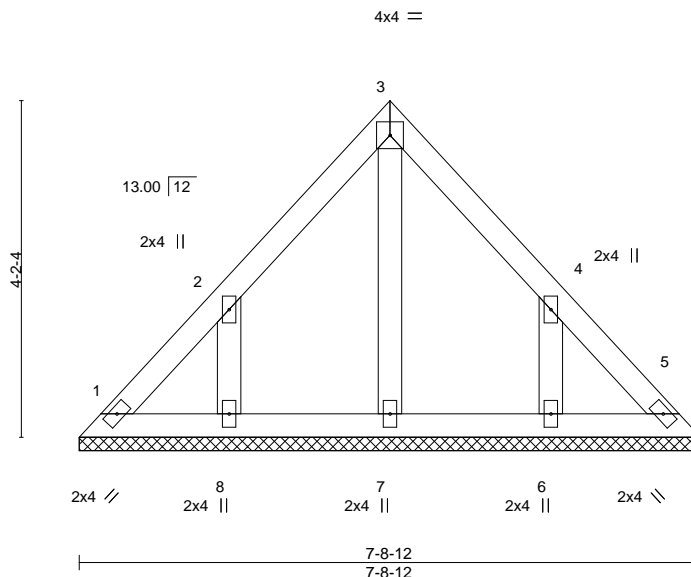
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss LG7	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI		Ply 1 Summit/16 Woodside/MO I44188017
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:52 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-_QkHR05C3oprnvIFAB3lv7mzpMgK2tCpli_yWy3UZH	
3-10-6		01/14/2021		7-8-12	
3-10-6				3-10-6	

Scale = 1:28.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 7-8-12.
 (lb) - Max Horz 1=92(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=126(LC 12), 6=126(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=261(LC 19), 6=261(LC 20)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 3-10-6, Exterior(2R) 3-10-6 to 6-10-6, Interior(1) 6-10-6 to 7-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=126, 6=126.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4, 2021

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

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

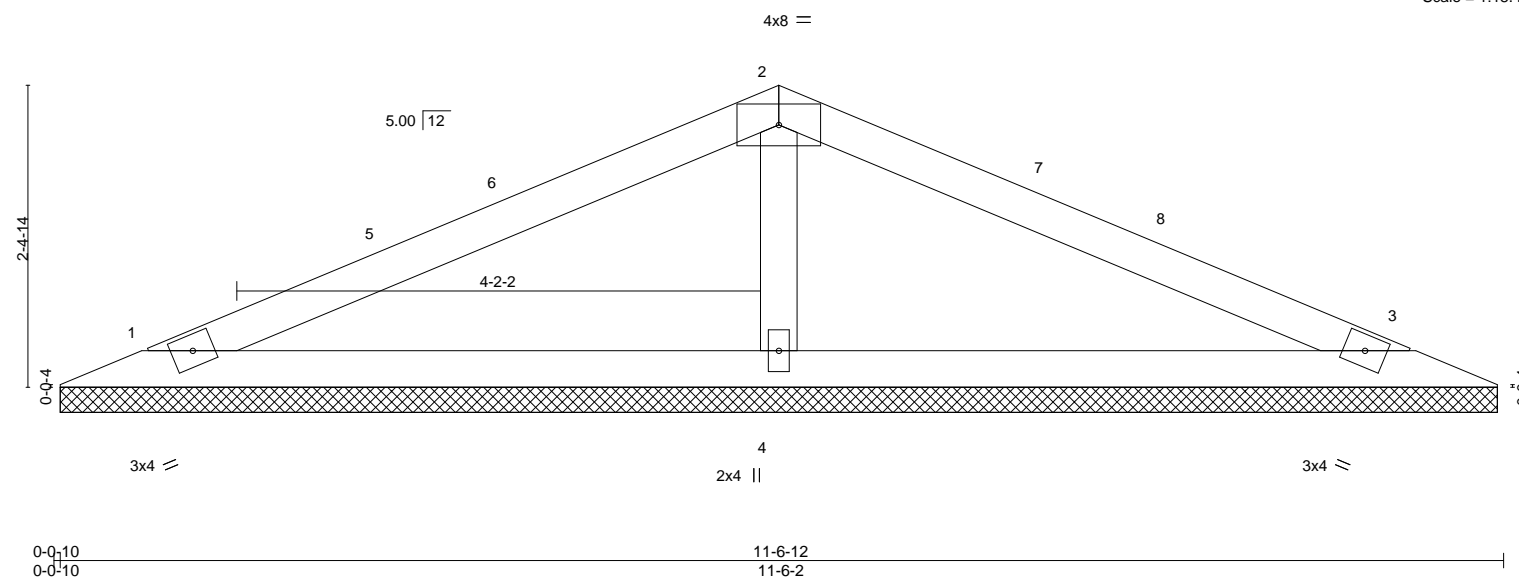
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss V1	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021		Summit/16 Woodside/MO 144188018 Job Reference (optional) 8,240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:53 2020 Page 1 ID:ggMHuYjvKTSNSqRK_bqYByzXhju-ScIfeM6rq6xiP3sRkva_SLJ3hmzTnJqu1PRYUyy3UZG 11-6-12 5-9-6
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,			

Scale = 1:18.4



0-0-10 0-0-10	11-6-12 11-6-2									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 20.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=11-5-8, 3=11-5-8, 4=11-5-8
 Max Horz 1=33(LC 16)
 Max Uplift 1=-32(LC 12), 3=-38(LC 13), 4=-16(LC 12)
 Max Grav 1=251(LC 25), 3=251(LC 26), 4=615(LC 1)

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

WEBS 2-4=-455/177

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-9-6, Exterior(2R) 5-9-6 to 8-9-6, Interior(1) 8-9-6 to 10-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 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.



January 4, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

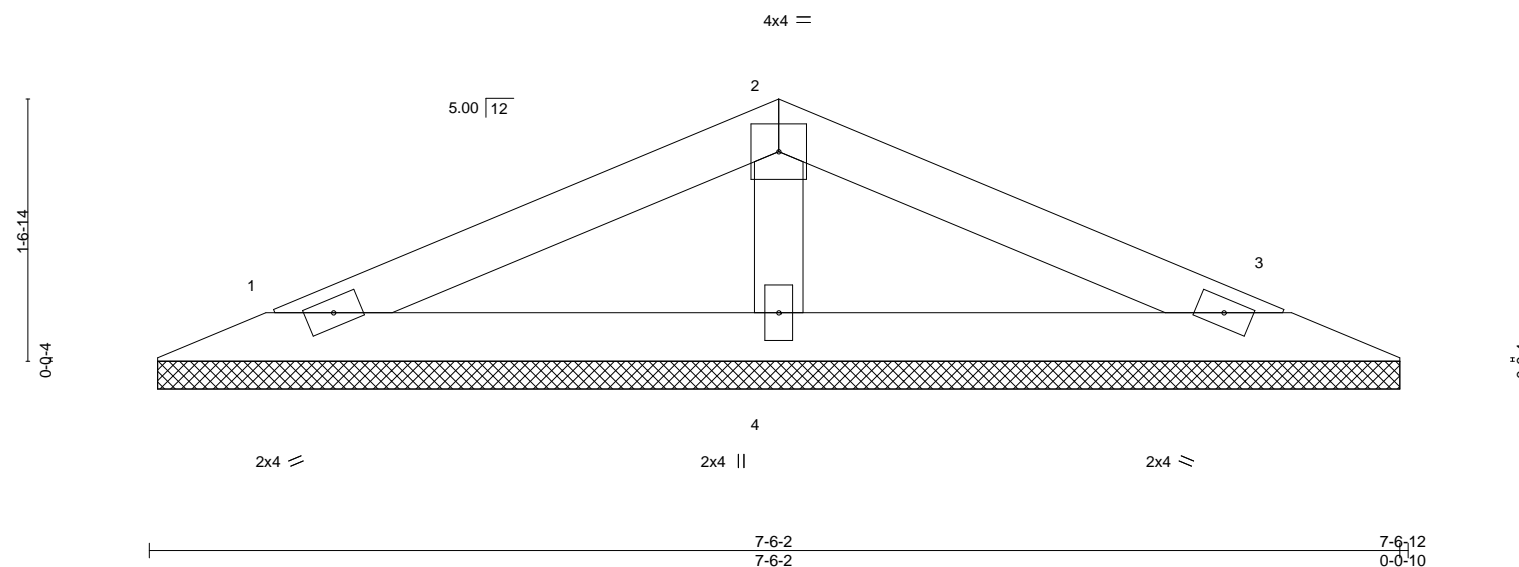
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2592336	Truss V2	Truss Type Valley	<div style="text-align: center;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/14/2021 </div>		Summit/16 Woodside/MO 144188019 Job Reference (optional) 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Dec 31 09:30:54 2020 Page 1 ID:ggMHuYjvKTSNSqRK_pqYByzXhju-wps1ri6TbP3Z0CRlc6D?YrH4ALzWna2G3B50Py3UZf
Builders FirstSource (Valley Center),		Valley Center, KS - 67147,		3-9-6 3-9-6 7-6-12 3-9-6	

Scale = 1:13.8



LOADING (psf)		SPACING-		CSI.		DEFL.		I/defl		L/d		PLATES		GRIP	
TCCL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999		MT20		197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a					
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P											
												Weight: 17 lb		FT = 20%	

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=7-5-8, 3=7-5-8, 4=7-5-8
 Max Horz 1=-20(LC 17)
 Max Uplift 1=-25(LC 12), 3=-28(LC 13)
 Max Grav 1=167(LC 1), 3=167(LC 1), 4=331(LC 1)

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

WEBS 2-4=-256/136

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 4, 2021

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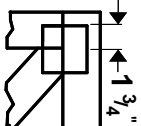
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



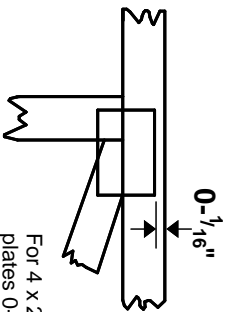
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

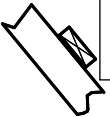
Plate location details available in **MiTek 20/20** software or upon request.

PLATE SIZE



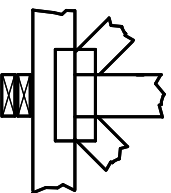
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



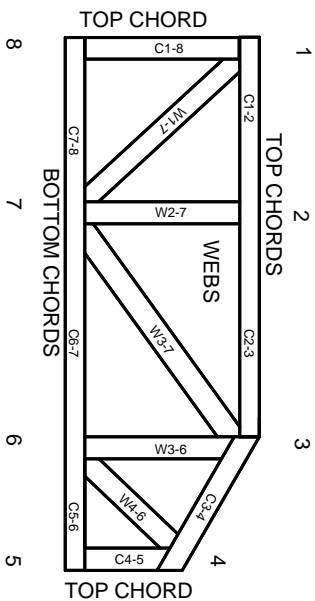
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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