

RE: 400148 Lot 84 MN MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

## General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 45.0 psf Design Program: MiTek 20/20 8.2 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 36 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	140701746	a1	3/20/2020	27	I40701772	v5	3/20/2020
2	140701747	a2	3/20/2020	28	I40701773	v6	3/20/2020
3	I40701748	a3	3/20/2020	29	I40701774	v7	3/20/2020
4	I40701749	a4	3/20/2020	30	I40701775	v8	3/20/2020
5	I40701750	a5	3/20/2020	31	I40701776	v9	3/20/2020
6	I40701751	a6	3/20/2020	32	I40701777	v10	3/20/2020
7	140701752	a7	3/20/2020	33	l40701778	v11	3/20/2020
8	140701753	a8	3/20/2020	34	l40701779	v12	3/20/2020
9	140701754	a9	3/20/2020	35	l40701780	v13	3/20/2020
10	140701755	a10	3/20/2020	36	l40701781	v14	3/20/2020
11	140701756	a11	3/20/2020				
12	140701757	a12	3/20/2020				
13	140701758	a13	3/20/2020				
14	I40701759	b1	3/20/2020				
15	140701760	b2	3/20/2020				
16	I40701761	b3	3/20/2020				
17	140701762	b4	3/20/2020				
18	140701763	c1	3/20/2020				
19	140701764	c2	3/20/2020				
20	I40701765	c3	3/20/2020				
21	I40701766	d1	3/20/2020			RELEASE F	OR CONSTRUCTION
22	I40701767	d2	3/20/2020			AS NOTED	ON PLANS REVIEW
23	I40701768	v1	3/20/2020			CODES	ADMINISTRATION
24	I40701769	v2	3/20/2020			LEE'S S	UMMIT, MISSOURI
25	140701770	v3	3/20/2020				04/46/2020

3/20/2020

04/16/2020

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

140701771

26

My license renewal date for the state of Kansas is April 30, 2020. Kansas COA: E-943

v4

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



March 20, 2020



RE: 400148 Lot 84 MN MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

## General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

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5	I40701750	a5	3/20/2020	31	l40701776	v9	3/20/2020
6	I40701751	a6	3/20/2020	32	I40701777	v10	3/20/2020
7	140701752	a7	3/20/2020	33	l40701778	v11	3/20/2020
8	140701753	a8	3/20/2020	34	l40701779	v12	3/20/2020
9	140701754	a9	3/20/2020	35	l40701780	v13	3/20/2020
10	140701755	a10	3/20/2020	36	l40701781	v14	3/20/2020
11	140701756	a11	3/20/2020				
12	140701757	a12	3/20/2020				
13	140701758	a13	3/20/2020				
14	140701759	b1	3/20/2020				
15	140701760	b2	3/20/2020				
16	I40701761	b3	3/20/2020				
17	140701762	b4	3/20/2020				
18	140701763	c1	3/20/2020				
19	140701764	c2	3/20/2020				
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22	l40701767	d2	3/20/2020				
23	140701768	v1	3/20/2020				

3/20/2020

3/20/2020

3/20/2020

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

v2

v3

v4

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

140701769

140701770

140701771

24

25

26

My license renewal date for the state of Missouri is December 31, 2020. Missouri COA: 001193

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



Garcia, Juan

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION 20 LEE'S SUMMIT, MISSOURI

04/16/2020



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Mitek 16023 Swingley Koge R Chesterfield, MO 63017



## RELEASE FOR CONSTRUCTION

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. 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 designe. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314. S NOTED ON PLANS REVIEW CODE A DMINISTRATION LECTOR SUMMIT, MISSOURI MITC K 16023 SWAGEL SIZE Chesterfield, MO 63017



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### RELEASE FOR CONSTRUCTION MINISTRATION IMIT, MISSOURI MiTek 16023 Swingley Ridge Ru Chesterfield, MO 63017

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### RELEASE FOR CONSTRUCTION

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MIT, MISSOURI

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LE**FS SUM**MIT, MISSOURI MITEK<sup>®</sup>

#### 16023 Swingley Ridge Ru Chesterfield, MO 63017



IMIT, MISSOURI

Mitek 16023 Swingley Kage R Chesterfield, MO 63017

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#### CODE ADMINISTRATION LE**FT SUM**MIT, MISSOURI MITek

16023 Swingley Ridge Rd Chesterfield, MO 63017





[	-		-			
Job	Truss	Truss Type	Qty	Ply	Lot 84 MN	
			1	-	140	704757
					140.	/01/5/
400148	A12	CABLE	1	1		
400146	AIZ	GABLE	11	1 1		
					Job Reference (optional)	
W/heelerlumher M	averty KC CC071			0.040 e M	ar 0.2020 MiTak Industrian Inc. Fri Mar 20.11/22/12.2020 Dec	~~ )
wheeler Lumber, w	averiy, NS 6667 i			0.240 S IV	ar 9 2020 Millek Industries, Inc. Filmar 20 11.33.42 2020 Pag	ye∠
		ID:vnP7s(	SkoTkCAd	6C25h27N	16z75mk-boMpal.mpTGaOi8M26HT1cGDuuENi IEibM8Rigpz72	MoN
		10.011 230	JRCIROAU			. YIN

NOTES-

9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22 except (jt=lb) 34=527, 20=310, 21=100.

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.

#### **RELEASE FOR CONSTRUCTION**

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MiTek 16023 Swifed MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 84 MN	
					140	0701758
400148	A13	GABLE	1	2		
				<b>_</b>	Job Reference (optional)	
Wheeler Lumber, Wav	erly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Mar 20 11:33:44 2020 Pa	ige 2

NOTES-

- ID:vnPZsGkeTkCAd6C?5h?ZN6zZ5mk-XBTX?0o1?t48yRWRDhVVhhl9H24Xn6y\_qSwqlfzZ2qL 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 912 lb down and 119 lb up at 1-11-4, 914 lb down and 23 lb up at
- 3-11-4, 914 lb down and 23 lb up at 5-11-4, 914 lb down and 23 lb up at 7-11-4, 914 lb down and 23 lb up at 9-11-4, 914 lb down and 23 lb up at 11-11-4, 912 lb down and 23 lb up at 13-11-4, 919 lb down and 13-11-4, 919 lb down design/selection of such connection device(s) is the responsibility of others.

13) Studding applied to ply: 1(Front)

#### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-70, 1-6=-20

Concentrated Loads (lb)

Vert: 7=-878(F) 10=-876(F) 34=-878(F) 35=-878(F) 36=-878(F) 37=-878(F) 38=-878(F) 39=-878(F) 41=-878(F) 42=-878(F)

**RELEASE FOR CONSTRUCTION** 

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REACTIONS. All bearings 13-4-0.

(lb) -Max Horz 24=158(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15

Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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=25ft; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 14, 20, 21,

22, 23, 18, 17, 16, 15,

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.



IMIT, MISSOURI

**MiTek** 16023 Swingley Ridge Ru Chesterfield, MO 63017

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BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 7=0-3-8, 5=0-2-0 Max Horz 7=155(LC 5) Max Uplift 7=-89(LC 8), 5=-62(LC 9) Max Grav 7=654(LC 1), 5=570(LC 1)

3-6: 2x3 SPF No.2

2x6 SPF No.2 \*Except\*

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

 TOP CHORD
 2-3=-611/108, 3-4=-603/108, 2-7=-590/141, 4-5=-497/111

- BOT CHORD 6-7=-11/393, 5-6=-11/393 3-6=0/260

#### WEBS

#### NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; 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.

\* 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 4) will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.

# TIS \* PROXIM ONALE ONALE UNAN GARCIA ICENSED 1695 TH MUMILITY .

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JUAN

GARCIA

NUMBER

E-2000162101

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## RELEASE FOR CONSTRUCTION OTED ON PLANS REVIE DESADMINISTRATION

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LEFTER SUMMIT, MISSOURI MITEK 16023 SWN4(4) K12920 Chesterfield, MO 63017



ARXING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

#### LE**TT SUM**MIT, MISSOURI MITEK

16023 Swingley Ridge Ru Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 84 MN	
					4	40701762
400148	B4	Common Girder	1	2		
				<b>_</b>	Job Reference (optional)	
Wheeler Lumber, Wav	erly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Mar 20 11:33:58 2020 F	Page 2

ID:vnPZsGkeTkCAd6C?5h?ZN6zZ5mk-7tJqxpzpiAr9dba72eInFetajhtn3YU22dJaFszZ2q7

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-70, 3-5=-70, 1-5=-20

Concentrated Loads (lb)

Vert: 8=-1766(B) 9=-1766(B) 10=-1766(B) 11=-1766(B) 12=-1766(B) 13=-1766(B)

#### **RELEASE FOR CONSTRUCTION**

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- 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) 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 30, 31, 32, 33, 34, 35, 28, 27, 25, 24, 23, 22 except (jt=lb) 37=145, 36=153, 21=133.
- 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.

## F -2000162101 TH GIT S 16952 ONALE

NUMBER

### RELEASE FOR CONSTRUCTION

DMINISTRATION

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MiTek 16023 Swingley Ridge Ru Chesterfield, MO 63017



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#### RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES ADMINISTRATION LET STAMMIT, MISSOURI MITEK

16023 Swingley Ridge Ru Chesterfield, MO 63017



### RELEASE FOR CONSTRUCTION

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**REACTIONS.** All bearings 22-0-0.

(lb) - Max Horz 25=73(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 25, 14, 21, 22, 23, 24, 19, 18, 16, 15

Max Grav All reactions 250 lb or less at joint(s) 25, 14, 20, 21, 22, 23, 24, 19, 18, 16, 15

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=25ft; 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) 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.

All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 14, 21, 22,

23, 24, 19, 18, 16, 15. 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.



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Plate Offsets (X,Y)	[6:Edge,0-2-8]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	<b>CSI.</b> TC 0.46 BC 0.20 WB 0.24 Matrix-S	<b>DEFL.</b> in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) l/defl - n/a - n/a 6 n/a	L/d 999 999 n/a	<b>PLATES</b> MT20 Weight: 56 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x3 SF OTHERS 2x3 SF	PF No.2 PF No.2 PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood except end vert Rigid ceiling dir	I sheathing dire ticals. ectly applied or	ctly applied or 6-0-0 10-0-0 oc bracing.	oc purlins,
REACTIONS. All bi (lb) - Max H Max U Max C	earings 17-11-0. lorz 1=312(LC 5) lplift All uplift 100 lb or less at joint(s) 6, 8) srav All reactions 250 lb or less at joint( 8=344(LC 2), 9=507(LC 2)	8 except 7=-108(LC 8), 9 s) 1, 6 except 7=488(LC 2	9=-132(LC 2),				
FORCES.         (lb) - Max.           TOP CHORD         1-2=           WEBS         4-7=	Comp./Max. Ten All forces 250 (lb) or -255/78 -315/142, 2-9=-373/186	less except when shown.					
NOTES- 1) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 2) Gable requires cont 3) This truss has been 4) * This truss has been will fit between the t 5) Provide mechanical 7=108, 9=132. 6) This truss is design.	/ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right inuous bottom chord bearing. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on t bottom chord and any other members, wi connection (by others) of truss to bearing ed in accordance with the 2018 Internation	ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with he bottom chord in all are th BCDL = 10.0psf. g plate capable of withsta anal Residential Code sec	6.0psf; h=25ft; Cat. II; E: t and right exposed; Lurr any other live loads. as where a rectangle 3-6 nding 100 lb uplift at join tions R502.11.1 and R8(	xp C; Enclosed; iber DOL=1.60 p 5-0 tall by 2-0-0 v t(s) 6, 8 except ( 02.10.2 and	vide jt=lb)	The second secon	A GARCIA

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.



16023 Swingley Ridge Ru Chesterfield, MO 63017

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LUMBER-	UMBER- OP CHORD 2x4 SPF No.2					BRACING-	חי	Structu	ral wood	sheathing di	rectly applied or 6-0-0	
BCDL	10.0	Code IRC2018/TPI	2014	Matrix	-S						Weight: 44 lb	FT = 10%
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.00	5	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	n/a	-	n/a	999		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	999	MT20	197/144
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP

BOT CHORD

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2
OTHERS	2x3 SPE No 2

**REACTIONS.** All bearings 14-8-10.

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=-146(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=370(LC 2), 7=561(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-259/123, 2-7=-412/208

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=146.

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.

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16023 Swingley Ridge Ro Chesterfield, MO 63017

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<sup>(</sup>lb) - Max Horz 1=254(LC 7)



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



### RELEASE FOR CONSTRUCTION

Mitek 16023 Swingley Kage R Chesterfield, MO 63017

MINISTRATION

MIT, MISSOURI

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LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.23 BC 0.12 WB 0.06 Matrix-P	DEFL. i Vert(LL) n/ Vert(CT) n/ Horz(CT) -0.00	n (loc) a - a - ) 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 22 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER-		I	BRACING-					

BOT CHORD

#### LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WEBS OTHERS 2x3 SPF No.2

REACTIONS. (size) 1=8-3-13, 4=8-3-13, 5=8-3-13 Max Horz 1=137(LC 5)

Max Uplift 4=-23(LC 8), 5=-112(LC 8) Max Grav 1=119(LC 1), 4=135(LC 1), 5=422(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-328/169WEBS

#### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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) 4 except (jt=lb) 5 = 112

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.



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Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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### RELEASE FOR CONSTRUCTIO





BCDL 10.0 Code IRC2018/TPI2014 Matrix-P Weight: 13 lb FT = 109	LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	<b>CSI.</b> TC 0.35 BC 0.19 WB 0.00	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 197/144
	BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 13 lb	FT = 10%

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 2x4 SPF No.2 BOT CHORD WEBS 2x3 SPF No.2

REACTIONS. 1=5-1-6, 3=5-1-6 (size)

Max Horz 1=79(LC 5) Max Uplift 1=-28(LC 8), 3=-44(LC 8)

Max Grav 1=194(LC 1), 3=194(LC 1)

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

#### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 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) 1, 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.

## With PROM JUAN GARCIA NUMBER E-2000162101 MONAL JUAN GARO LICENSE 16C JGI RELEASE FOR CONSTRUCTION MINISTRATION

IMIT, MISSOURI

**MiTek** 16023 Swingley Ridge Ro Chesterfield, MO 63017

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Structural wood sheathing directly applied or 5-2-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.19 BC 0.10 WB 0.05 Matrix-P	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 19 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER-		I	BRACING-					

BOT CHORD

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 OTHERS 2x3 SPF No.2

REACTIONS. (size) 1=7-3-0, 4=7-3-0, 5=7-3-0 Max Horz 1=118(LC 5)

Max Uplift 4=-26(LC 8), 5=-100(LC 8)

Max Grav 1=70(LC 16), 4=142(LC 1), 5=375(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-292/150WEBS

#### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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) 4, 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.

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RELEASE FOR CONSTRUCTION

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MINISTRATION

IMIT, MISSOURI

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Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

### 🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. **MiTek** 16023 Swingley Ridge Ru Chesterfield, MO 63017

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





## RELEASE FOR CONSTRUCTION

MINISTRATION

MIT, MISSOURI

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designe. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek 16023 Swingley Kigger Chesterfield, MO 63017



LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.30 BC 0.18 WB 0.10 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 40 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER-			BRACING-					

BOT CHORD

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

- BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2OTHERS2x3 SPF No.2
- **REACTIONS.** All bearings 13-7-13.
  - (lb) Max Horz 1=234(LC 5)
    - Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=-124(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=405(LC 2), 7=474(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-283/136, 2-7=-351/178

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=124.

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.

## RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CODES DOMINISTRATION LEFTER MILLER MITCH

16023 Swingley Ridge Ro Chesterfield, MO 63017

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Plate Offsets (X,Y)	[6:Edge,0-2-8]						
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	<b>CSI.</b> TC 0.40 BC 0.17 WB 0.20 Matrix-S	<b>DEFL.</b> in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) l/defl - n/a - n/a 6 n/a	L/d 999 999 n/a	<b>PLATES</b> MT20 Weight: 52 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP OTHERS 2x3 SP	F No.2 F No.2 F No.2 F No.2		BRACING- TOP CHORD BOT CHORD	Structural wood except end verti Rigid ceiling dire	sheathing dire icals. ectly applied o	ectly applied or 6-0-0 r 10-0-0 oc bracing.	oc purlins,
REACTIONS. All be (lb) - Max H Max U Max G	arings 16-10-3. orz 1=292(LC 5) plift All uplift 100 lb or less at joint(s) 6, 8) rav All reactions 250 lb or less at joint(s 8=359(LC 2), 9=429(LC 2)	8 except 7=-106(LC 8), 9	∋=-112(LC 2),				
FORCES. (lb) - Max. WEBS 4-7=-	Comp./Max. Ten All forces 250 (lb) or 310/142, 3-8=-263/140, 2-9=-318/159	less except when shown					
NOTES- 1) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 2) Gable requires conti 3) This truss has been 4) * This truss has been will fit between the b 5) Provide mechanical 7=106, 9=112. 6) This truss is designed	ult=115mph (3-second gust) Vasd=91mg gable end zone; cantilever left and right nuous bottom chord bearing. designed for a 10.0 psf bottom chord live of designed for a live load of 20.0psf on th ottom chord and any other members, wit connection (by others) of truss to bearing d in accordance with the 2018 Internatio	bh; TCDL=6.0psf; BCDL= exposed ; end vertical lei e load nonconcurrent with he bottom chord in all are h BCDL = 10.0psf. g plate capable of withsta	=6.0psf; h=25ft; Cat. II; E: it and right exposed; Lurr n any other live loads. as where a rectangle 3-6 inding 100 lb uplift at join	xp C; Enclosed; iber DOL=1.60 p 5-0 tall by 2-0-0 w t(s) 6, 8 except (j 12 10 2 and	late ∕ide it=lb)	Same Lice	GARCIA

referenced standard ANSI/TPI 1.



MiTek 16023 Swingley Ridge Ru Chesterfield, MO 63017

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSUTPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Plate Offsets (X,Y)	[9:Edge,0-2-8]					
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	<b>CSI.</b> TC 0.57 BC 0.16 WB 0.31 Matrix-S	DEFL.         in           Vert(LL)         -0.00           Vert(CT)         0.00           Horz(CT)         -0.00	(loc) 1 1 9	l/defi L/d n/r 120 n/r 120 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 64 lb         FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP OTHERS 2x3 SP	F No.2 F No.2 F No.2 F No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structur except e Rigid ce 1 Row e	ral wood sheathing dir end verticals. eiling directly applied c at midpt 8	rectly applied or 6-0-0 oc purlins, or 10-0-0 oc bracing. -9
REACTIONS. All be (lb) - Max He Max Up Max Ge	arings 19-3-8. orz 2=352(LC 5) plift All uplift 100 lb or less at joint(s) 9, rav All reactions 250 lb or less at joint( 11=417(LC 2), 12=379(LC 2), 13=37	11, 12, 13 except 10=-10 s) 9, 2 except 10=473(LC 72(LC 2)	5(LC 8) 2),			
FORCES.         (lb) - Max.           TOP CHORD         2-3=-2           WEBS         7-10=	Comp./Max. Ten All forces 250 (lb) or 297/52, 3-4=-251/53 308/133, 5-11=-273/146, 4-12=-283/14	less except when shown. 4, 3-13=-276/142				
NOTES- 1) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 2) All plates are 2x4 MT 3) Gable requires contin 4) This truss has been 5) * This truss has been will fit between the bu	ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right F20 unless otherwise indicated. nuous bottom chord bearing. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on to ottom chord and any other members. wi	ph; TCDL=6.0psf; BCDL= exposed ; end vertical left e load nonconcurrent with he bottom chord in all area th BCDL = 10.0psf	6.0psf; h=25ft; Cat. II; E t and right exposed; Lun any other live loads. as where a rectangle 3-6	xp C; Enc 1ber DOL 6-0 tall by	closed; =1.60 plate v 2-0-0 wide	UCENSED

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 11, 12, 13 except (jt=lb) 10=105.

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.

## RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW CONSTRUCTION LEVEL MMIT, MISSOURI

Mitek\* 16023 Swingley Koge R Chesterfield, MO 63017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSIVTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	<b>CSI.</b> TC 0.19 BC 0.10 WB 0.05 Matrix-P	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 19 lb	<b>GRIP</b> 197/144 FT = 10%
I UMBER-			BRACING-					

BOT CHORD

#### UMBER-

TOP CHORD 2x4 SPF No 2 2x4 SPF No.2 BOT CHORD 2x3 SPF No.2 WEBS OTHERS 2x3 SPF No.2

REACTIONS. (size) 1=7-3-13, 4=7-3-13, 5=7-3-13 Max Horz 1=119(LC 5)

Max Uplift 4=-26(LC 8), 5=-100(LC 8)

Max Grav 1=73(LC 16), 4=141(LC 1), 5=378(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-294/151 WEBS

#### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

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) 4 except (jt=lb) 5 = 100

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.



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Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

### RELEASE FOR CONSTRUCTIO

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

**MiTek** 16023 Swingley Ridge Ro Chesterfield, MO 63017

MINISTRATION

MIT, MISSOURI



2x4 ⋍

2x4 ||

Structural wood sheathing directly applied or 4-2-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

OADING (psf) CLL 25.0 CDL 10.0 CLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr. YES	CSI. TC 0.20 BC 0.11 WB 0.00	DEFL.         in         (loc)         l/defl         L/d         PLATES           Vert(LL)         n/a         -         n/a         999         MT20           Vert(CT)         n/a         -         n/a         999         MT20           Horz/CT)         0.0         3         n/a         n/a         999	<b>GRIP</b> 197/144
CDL 10.0	Code IRC2018/TPI2014	Matrix-P	Weight: 10 lb	FT = 10%

TOP CHORD

BOT CHORD

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 1=4-1-6, 3=4-1-6 Max Horz 1=61(LC 5) Max Uplift 1=-22(LC 8), 3=-34(LC 8) Max Grav 1=149(LC 1), 3=149(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=25ft; 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) Gable requires continuous bottom chord bearing.

- 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) 1, 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.



Mitek 16023 Swingley Kage R Chesterfield, MO 63017

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2x4 💋

2x4 ||

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           PCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IPC2018/TPI2014	CSI. TC 0.08 BC 0.05 WB 0.00 Matrix B	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	PLATES         GRIP           MT20         197/144
UMBER-         OP CHORD         2x4 SPF No.2			BRACING- TOP CHORD Structural wood sheathing dir	ectly applied or 3-1-3 oc purlins,

BOT CHORD

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2

WEBS 2x3 SPF No.2

REACTIONS. (size) 1=3-0-10, 3=3-0-10 Max Horz 1=41(LC 5) Max Uplift 1=-15(LC 8), 3=-23(LC 8) Max Grav 1=101(LC 1), 3=101(LC 1)

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

#### NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 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) 1, 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.

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LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code. IRC2018/TPI2014	CSI. TC 0.58 BC 0.31 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT) -0	in (loc n/a n/a ).00	c) l/defl - n/a - n/a 3 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 16 lb	<b>GRIP</b> 197/144 FT = 10%
			BRACING-				0	

BOT CHORD

LUMBER-

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

2x3 SPF No.2 REACTIONS. 1=6-3-0, 3=6-3-0 (size)

Max Horz 1=100(LC 5) Max Uplift 1=-36(LC 8), 3=-56(LC 8)

Max Grav 1=245(LC 1), 3=245(LC 1)

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

#### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) Gable requires continuous bottom chord bearing.

- 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) 1, 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.

## Mint PRUM JUAN GARCIA NUMBER E-2000162101 0 /ONALN JUAN GARCY ICENSE 160 GI RELEASE FOR CONSTRUCTION DMINISTRATION

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**MiTek** 16023 Swingley Ridge Ru Chesterfield, MO 63017

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Structural wood sheathing directly applied or 6-3-10 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

