

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

Re: 400223 Lot 85 RR

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I40944109 thru I40944202

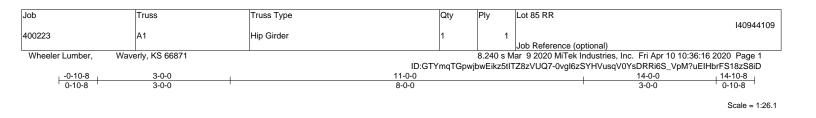
My license renewal date for the state of Missouri is December 31, 2021.

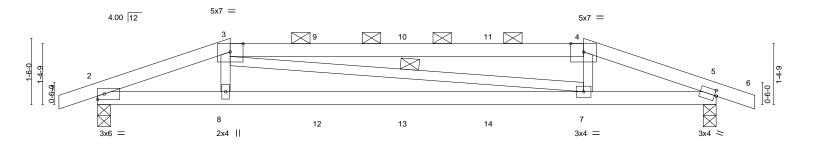
Missouri COA: Engineering 001193



April 10,2020

**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 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.





	3-0-0				11-0-0					14-0-0	
·	3-0-0	•			8-0-0					3-0-0	
Plate Offsets (X,Y) [	[5:0-0-8,0-1-8]										
OADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	ın	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.14	7-8	>999	360	MT20	197/144
CDL 10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.31	7-8	>523	240		
CLL 0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.04	5	n/a	n/a		
CDL 10.0	Code IRC2018/TP	-	Matrix		Wind(LL)	0.08		>999	240	Weight: 43 lb	FT = 10%
UMBER-					BRACING-						
OP CHORD 2x4 SP	F No.2 *Except*				TOP CHOP	RD	Structu	ral wood	sheathing d	lirectly applied or 4-0-1	5 oc purlins.
	4 SPF 2400F 2.0E						except		<b>J</b>		,
OT CHORD 2x4 SPI									(4-3-12 max	(): 3-4	
VEBS 2x3 SPI					BOT CHOP	חי			`	or 9-1-1 oc bracing.	
233 381	F 110.2						0	0		0	
					WEBS		IKOW	at midpt		3-7	
EACTIONS. (size	e) 2=0-3-8, 5=0-3-8										

11\_0\_0

Max Horz 2=-22(LC 30) Max Uplift 2=-228(LC 4), 5=-228(LC 5) Max Grav 2=745(LC 1), 5=745(LC 1)

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

TOP CHORD 2-3=-1758/436, 3-4=-1562/427, 4-5=-1712/423

200

BOT CHORD 2-8=-399/1627, 7-8=-410/1613, 5-7=-382/1575

WEBS 3-8=0/347, 4-7=0/361

### 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) 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=228, 5=228.

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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 139 lb up at 3-0-0, 67 lb down and 49 lb up at 5-0-12, 67 lb down and 49 lb up at 7-0-0, and 67 lb down and 49 lb up at 8-11-4, and 90 lb down and 139 lb up at 11-0-0 on top chord, and 26 lb down at 3-0-0, 16 lb down at 5-0-12, 16 lb down at 7-0-0, and 16 lb down at 8-11-4, and 20 lb down at 8-11-4, and 26 lb down at 10-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

#### Continued on page 2

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



14-0-0



Job	Truss	Truss Type	Qty	Ply	Lot 85 RR
					140944109
400223	A1	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:36:16 2020 Page 2

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:36:16 2020 Page 2 ID:GTYmqTGpwjbwEikz5tITZ8zVUQ7-0vgI6zSYHVusqV0YsDRRi6S\_VpM?uEIHbrFS18zS8iD

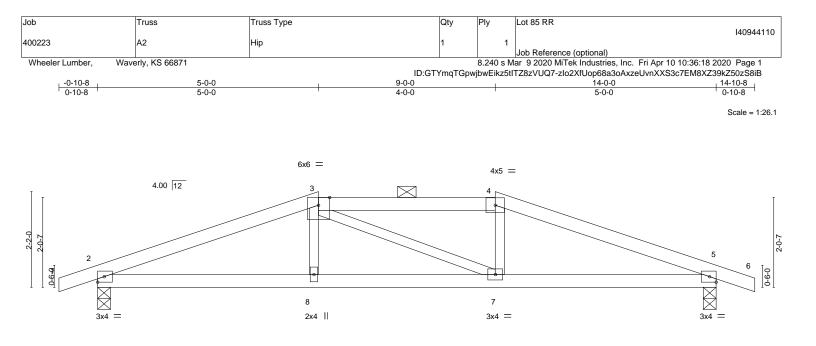
## LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20 Concentrated Loads (lb)

Vert: 3=-15(F) 4=-15(F) 8=-8(F) 7=-8(F) 9=-15(F) 10=-15(F) 11=-15(F) 12=-8(F) 13=-8(F) 14=-8(F)





	5-0-0 5-0-0		9-0-0 4-0-0		-			14-0-0 5-0-0	
OADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.		oc)	l/defl	L/d	PLATES	GRIP
CLL 25.0 CDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.35 BC 0.39	Vert(LL) Vert(CT)	-0.04 -0.07			360 240	MT20	197/144
CLL 0.0 *	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.07 Matrix-S	Horz(CT) Wind(LL)	0.02 0.03	5 8	n/a >999	n/a 240	Weight: 41 lb	FT = 10%

TOP CHORD

BOT CHORD

# LUMBER-

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

REACTIONS. 2=0-3-8, 5=0-3-8 (size) Max Horz 2=-33(LC 13) Max Uplift 2=-147(LC 4), 5=-147(LC 5)

Max Grav 2=688(LC 1), 5=688(LC 1)

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

2-3=-1244/186, 3-4=-1105/203, 4-5=-1244/185 TOP CHORD

BOT CHORD 2-8=-148/1110, 7-8=-150/1104, 5-7=-121/1111

### 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) 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.

\* 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 5) 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=147.5=147.

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.

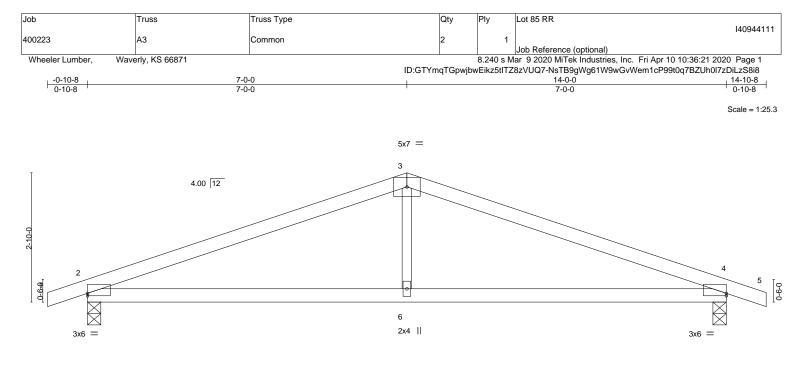


Structural wood sheathing directly applied or 4-8-4 oc purlins, except

2-0-0 oc purlins (5-4-8 max.): 3-4.

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





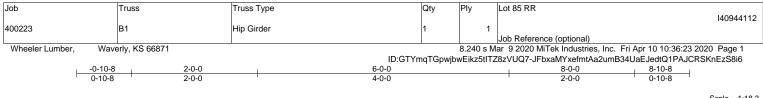
	7-0-0 7-0-0			14-0-0 7-0-0						
Plate Offsets (X,Y)	[2:0-0-0,0-0-10], [4:0-0-0,0-0-10]									
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.76 BC 0.50 WB 0.10 Matrix-S	DEFL. in Vert(LL) -0.06 Vert(CT) -0.14 Horz(CT) 0.02 Wind(LL) 0.05	2-6 >999 240 4 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 37 lb         FT = -	10%				
BOT CHORD 2x4 SP	TOP CHORD2x4 SPF No.2TOP CHORDStructural wood sheathing directly applied or 3-2-10 oc purlins.BOT CHORD2x4 SPF No.2BOT CHORDRigid ceiling directly applied or 10-0-0 oc bracing.WEBS2x3 SPF No.2Structural wood sheathing directly applied or 10-0-0 oc bracing.									
REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=-46(LC 9) Max Uplift 2=-134(LC 4), 4=-134(LC 5) Max Grav 2=688(LC 1), 4=688(LC 1)										
TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb) or 1095/130, 3-4=-1095/130 72/952, 4-6=-72/952 )/331	less except when shown.								
<ul> <li>2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60</li> <li>3) This truss has been</li> <li>4) * This truss has bee</li> </ul>	e loads have been considered for this de fult=115mph (3-second gust) Vasd=91rr gable end zone; cantilever left and right designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on to ottom chord and any other members.	ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with	ft and right exposed; Lun n any other live loads.	ber DOL=1.60 plate						

will fit between the bottom chord and any other members.5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=134, 4=134.

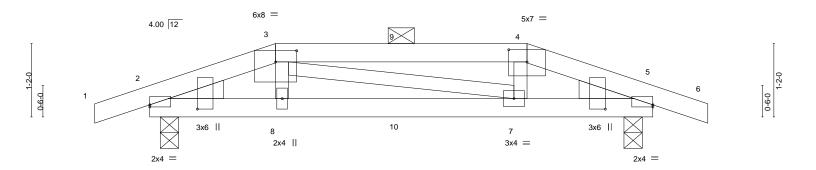
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Scale = 1:18.3



	0 <sub>T</sub> 2-Q 2-0-0		6-0-0	1	7-10-0	8 <sub>τ</sub> 0-φ	
	0-2-0 1-10-0		4-0-0	I	1-10-0	0-2-0	
Plate Offsets (X,Y)	[2:0-0-13,0-9-1], [2:0-0-0,0-0-6], [3:0-4-0	0,0-2-3], [4:0-3-8,0-2-5], [5:E	dge,0-0-6], [5:0-0-13,0	-9-1]			
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 NO Code IRC2018/TPI2014	CSI. TC 0.36 BC 0.20 WB 0.04 Matrix-P	DEFL.         in           Vert(LL)         -0.01           Vert(CT)         -0.03           Horz(CT)         0.01           Wind(LL)         0.01	(loc) l/defl 7-8 >999 7-8 >999 5 n/a 7-8 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 27 lb	<b>GRIP</b> 197/144 FT = 10%
BOT CHORD 2x4 SF	2F No.2 2F No.2 2F No.2		BRACING- TOP CHORD BOT CHORD	2-0-0 oc purlins	s (6-0-0 max.): 3-4		oc purlins, except

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 5=0-3-8 Max Horz 2=17(LC 33)

Max Uplift 2=-114(LC 4), 5=-114(LC 5) Max Grav 2=418(LC 1), 5=418(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-613/108, 3-4=-531/99, 4-5=-615/107

BOT CHORD 2-8=-71/521, 7-8=-66/529, 5-7=-78/524

## 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) 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=114, 5=114
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 107 lb down and 89 lb up at 2-0-0, and 54 lb down and 33 lb up at 4-0-0, and 107 lb down and 89 lb up at 6-0-0 on top chord, and 8 lb down at 2-0-0, and 8 lb down at 4-0-0, and 8 lb down at 5-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20







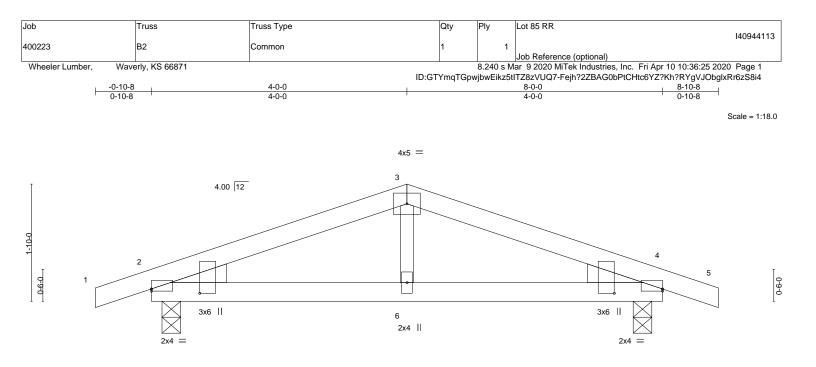


Plate Offsets (X,Y)	0 <u>-2-0</u> 0 <sup>1</sup> 2-0 [2:0-0-0,0-0-6], [2:0-0-13,0-9-1], [4:Ed	4-0-0 3-10-0 ge,0-0-6], [4:0-0-13,0-9-1]		7-10-0 3-10-0	<u>8</u> -0-9 0-2-0
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.24 BC 0.21 WB 0.06 Matrix-P	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0 Wind(LL) 0.0	02 2-6 >999 240 01 4 n/a n/a	MT20 197/144
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP WEDGE Left: 2x4 SPF No.2, Rig	PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD		ning directly applied or 6-0-0 oc purlins. pplied or 10-0-0 oc bracing.
Max H Max U	e) 2=0-3-8, 4=0-3-8 orz 2=29(LC 12) plift 2=-96(LC 4), 4=-96(LC 5) rav 2=418(LC 1), 4=418(LC 1)				
TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb) 513/41, 3-4=-513/41 8/427, 4-6=-8/427	or less except when shown.			

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.

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, 4.

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.





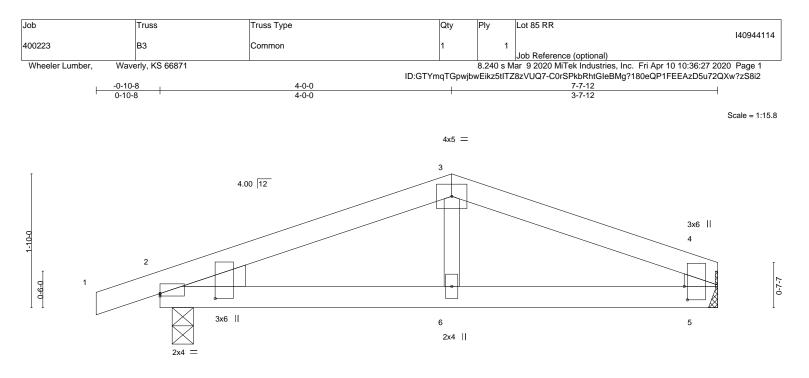


Plate Offsets (X,Y)	0 <u>-2-0</u> 0-2-0 [2:0-0-13,0-9-1], [2:0-0-0,0	<u>4-0-0</u> <u>3-10-0</u> D-0-6], [4:0-0-15,0-2-12], [4:0	)-2-4,0-0-8], [5:0-0-0,0-2-12]				7-7-12 3-7-12		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	1.15 BC 0 YES WB 0	0.21 Vert(CT) 0.05 Horz(CT)	in -0.01 -0.03 0.00 0.01	(loc) 2-6 2-6 5 2-6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 21 lb	<b>GRIP</b> 197/144 FT = 10%
			BRACING- TOP CHORI BOT CHORI		except	end verti	cals.	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,

REACTIONS.	(size)	2=0-3-8, 5=Mechanical
	Max Horz	2=32(LC 12)
	Max Uplift	2=-95(LC 4), 5=-46(LC 5)
	Max Grav	2=404(LC 1), 5=322(LC 1)

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

TOP CHORD 2-3=-479/60, 3-4=-462/59, 4-5=-269/64

BOT CHORD 2-6=-29/398, 5-6=-29/398

#### 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) 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.

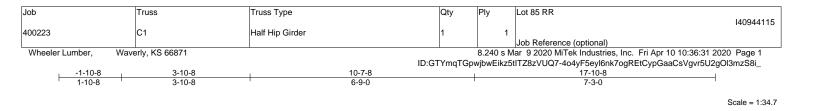
5) Refer to girder(s) for truss to truss connections.

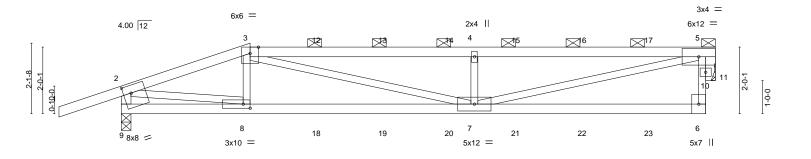
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.

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.









	3-10-8	<u> </u>		J	<u>17-10-8</u> 7-3-0	
Plate Offsets (X,Y)	[8:0-2-8,0-1-8], [9:0-2-12,0-2-12], [9:0-1				100	
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 NO Code IRC2018/TPI2014	CSI. TC 0.71 BC 0.69 WB 0.81 Matrix-S	DEFL. in Vert(LL) -0.15 Vert(CT) -0.31 Horz(CT) 0.03 Wind(LL) 0.15	7-8 >999 3 7-8 >689 2 11 n/a	L/d <b>PLATES</b> 360 MT20 240 n/a 240 Weight: 62 II	<b>GRIP</b> 197/144 D FT = 10%
BOT CHORD 2x4 SP WEBS 2x3 SP 2-9: 2x. OTHERS 2x4 SP REACTIONS. (size Max H Max U	4 SPF 2100F 1.8E F No.2 F No.2 *Except* 4 SPF No.2 F No.2 e) 9=0-3-8, 11=Mechanical orz 9=72(LC 5) plift 9=-296(LC 4), 11=-200(LC 5)		BRACING- TOP CHORD BOT CHORD	except end verticals	eathing directly applied or 4-2 s, and 2-0-0 oc purlins (4-1-3 y applied or 9-3-11 oc bracing	max.): 3-5.
FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 7-8=- WEBS 3-7=- NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V	rav 9=1095(LC 1), 11=919(LC 1) Comp./Max. Ten All forces 250 (lb) of 1780/372, 3-4=-2627/582, 4-5=-2624/58 387/1660, 6-7=-84/327 220/1009, 4-7=-657/315, 5-7=-526/2368 cloads have been considered for this de ult=115mph (3-second gust) Vasd=91m rable and approximate and vibble	31, 2-9=-1066/304 3, 2-8=-339/1599, 5-11=-1 sign. uph; TCDL=6.0psf; BCDL=	045/239 =6.0psf; h=25ft; Cat. II; E			
grip DOL=1.60 3) Provide adequate dr 4) This truss has been 5) * This truss has been will fit between the b 6) Refer to girder(s) for 7) Provide mechanical 9=296, 11=200. 8) This truss is designe referenced standard 9) Graphical purlin repr	gable end zone; cantilever left and right ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on ottom chord and any other members. 'truss to truss connections. connection (by others) of truss to bearin an accordance with the 2018 Internation ANSI/TPI 1. resentation does not depict the size or th connection device(s) shall be provided	e load nonconcurrent with the bottom chord in all are ng plate capable of withsta onal Residential Code sec ne orientation of the purlin	n any other live loads. as where a rectangle 3- anding 100 lb uplift at joir ations R502.11.1 and R8 along the top and/or bol	6-0 tall by 2-0-0 wide it(s) except (jt=lb) 02.10.2 and tom chord.	STATE C	OF MISSOL
3-10 <sup>-</sup> 8, 76 lb down 57 lb up at 11-11-4 down at 3-10-8, 28 13-11-4, and 28 lb others.	and 57 lb up at 5-11-4, 76 lb down and 4, and 76 lb down and 57 lb up at 13-11 3 lb down at 5-11-4, 28 lb down at 7-11 down at 15-11-4 on bottom chord. The c(S) section, loads applied to the face of	57 lb up at 7-11-4, 76 lb -4, and 76 lb down and 5 -4, 28 lb down at 9-11-4, design/selection of such	down and 57 lb up at 9 7 lb up at 15-11-4 on top 28 lb down at 11-11-4, connection device(s) is t	-11-4, 76 lb down and o chord, and 69 lb and 28 lb down at	d POLICE	April 10,2020



ss Truss Type	Qty	Ply	Lot 85 RR
			140944115
Half Hip Girder	1	1	
			Job Reference (optional)
KS 66871		8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:36:31 2020 Page 2
	Half Hip Girder	Half Hip Girder 1	Half Hip Girder 1 1

ID:GTYmqTGpwjbwEikz5tITZ8zVUQ7-4o4yF5eyl6nk7ogREtCypGaaCsVgvr5U2gOl3mzS8i\_

LOAD CASE(S) Standard

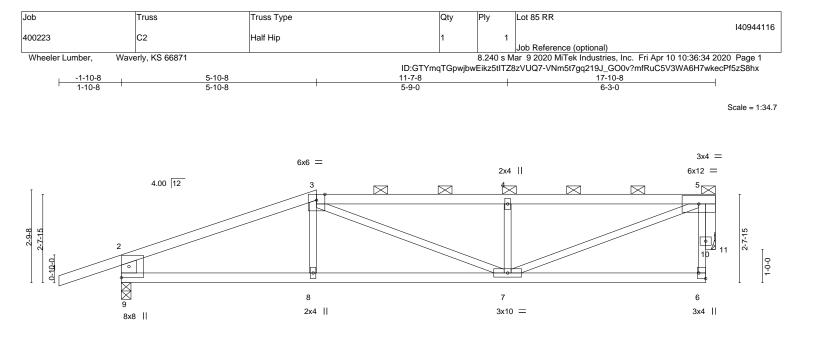
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-5=-70, 6-9=-20

Concentrated Loads (lb)

Vert: 3=-50(F) 8=-22(F) 12=-27(F) 13=-27(F) 14=-27(F) 15=-27(F) 16=-27(F) 17=-27(F) 18=-13(F) 19=-13(F) 20=-13(F) 21=-13(F) 22=-13(F) 23=-13(F) 23





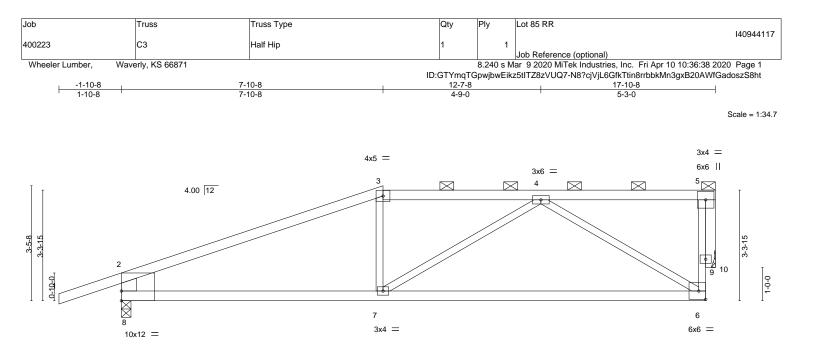
	5-10-8		<u>11-7-8</u> 5-9-0		17-10-8 6-3-0				
Plate Offsets (X,Y)	[2:0-0-15,0-2-12], [6:Edge,0-2-8], [9:0-0	-0,0-2-12]							
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	<b>CSI.</b> TC 0.71 BC 0.70 WB 0.47 Matrix-S	DEFL.         in         (loc)           Vert(LL)         -0.14         7-8           Vert(CT)         -0.27         7-8           Horz(CT)         0.03         11           Wind(LL)         0.11         7-8	>999 360 >777 240 n/a n/a	PLATES MT20 Weight: 61 lb	<b>GRIP</b> 197/144 FT = 10%			
3-5: 2x- BOT CHORD 2x4 SP WEBS 2x3 SP 2-9: 2x1 OTHERS 2x4 SP REACTIONS. (size Max H- Max U	TOP CHORD2x4 SPF 2100F 1.8E *Except* 3-5: 2x4 SPF No.2TOP CHORDStructural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-1 max.): 3-5.BOT CHORD2x4 SPF No.2BOT CHORDBOT CHORDRigid ceiling directly applied or 10-0-0 oc bracing.WEB2x3 SPF No.2 *Except* 2-9: 2x6 SP 2400F 2.0EStructural wood sheathing directly applied or 10-0-0 oc bracing.OTHERS2x4 SPF No.2								
TOP CHORD 2-3=- BOT CHORD 8-9=-	Comp./Max. Ten All forces 250 (lb) or 1345/223, 3-4=-1447/281, 4-5=-1444/27 211/1190, 7-8=-214/1188 71/382, 4-7=-497/196, 5-7=-263/1382, 5	79, 2-9=-840/258							
<ol> <li>2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60</li> <li>3) Provide adequate dr 4) This truss has been 5) * This truss has been will fit between the b</li> <li>6) Refer to girder(s) for 7) Provide mechanical 9=236, 11=143.</li> <li>8) This truss is designe referenced standard</li> </ol>	loads have been considered for this de ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members. truss to truss connections. connection (by others) of truss to bearin d in accordance with the 2018 Internatio ANSI/TPI 1. esentation does not depict the size or th	pr); TCDL=6.0psf; BCDL= exposed ; end vertical le e load nonconcurrent with he bottom chord in all are g plate capable of withsta onal Residential Code sec	ft and right exposed; Lumber DC h any other live loads. eas where a rectangle 3-6-0 tall l anding 100 lb uplift at joint(s) exc ctions R502.11.1 and R802.10.2	DL=1.60 plate by 2-0-0 wide cept (jt=lb) and	S SC	F MISSOUR			

PE-200101880

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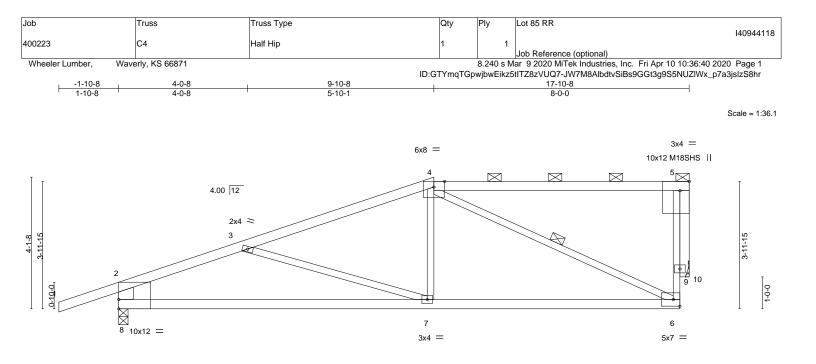
MITEK<sup>®</sup> 16023 Swingley Ridge Rd Chesterfield, MO 63017

April 10,2020



	7-10-8	+					
Plate Offsets (X,Y)	[2:0-2-12,0-0-15], [8:0-0-0,0-3-8], [8:0-2	-12,0-0-0]			0-0-0		
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 0.73 BC 0.44 WB 0.79 Matrix-S	DEFL. ir Vert(LL) -0.22 Vert(CT) -0.47 Horz(CT) -0.02 Wind(LL) 0.05	2 6-7 >951 7 6-7 >452 2 10 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 60 lb	<b>GRIP</b> 197/144 FT = 10%
3-5: 2x BOT CHORD 2x4 SF WEBS 2x3 SF 2-8: 2x	PF 2100F 1.8E *Except* 44 SPF No.2 PF 2100F 1.8E PF No.2 *Except* 46 SP 2400F 2.0E PF No.2		BRACING- TOP CHORD BOT CHORD	except end vert	icals, and 2-0-0	ctly applied or 5-4-3 l oc purlins (5-3-7 m 10-0-0 oc bracing.	
Max H Max U Max G FORCES. (Ib) - Max. TOP CHORD 2-3=-	e) 8=0-3-8, 10=Mechanical lorz 8=110(LC 5) Jplift 8=-232(LC 4), 10=-147(LC 4) Grav 8=947(LC 1), 10=753(LC 1) Comp./Max. Ten All forces 250 (lb) or -1295/188, 3-4=-1131/214, 6-9=-86/604,						
<ul> <li>WEBS 4-7=-</li> <li>NOTES-</li> <li>1) Unbalanced roof live</li> <li>2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60</li> <li>3) Provide adequate di</li> <li>4) This truss has been</li> <li>5) * This truss has been will fit between the be</li> <li>6) Refer to girder(s) for</li> <li>7) Provide mechanical 8=232, 10=147.</li> </ul>	-190/1130, 6-7=-216/943 -23/297, 4-6=-958/258, 5-10=-765/150 e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv in designed for a live load of 20.0psf on bottom chord and any other members. r truss to truss connections. connection (by others) of truss to bearin ed in accordance with the 2018 Internati d ANSI/TPI 1.	uph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with the bottom chord in all are ng plate capable of withsta	t and right exposed; Lur any other live loads. as where a rectangle 3- nding 100 lb uplift at join	nber DOL=1.60 p 6-0 tall by 2-0-0 v nt(s) except (jt=lb	vide		E MISSOLIE DTT M. EVIER
	J ANSI/TPI 1. resentation does not depict the size or th	ne orientation of the purlin	along the top and/or bo	ttom chord.		PE-20	01018807

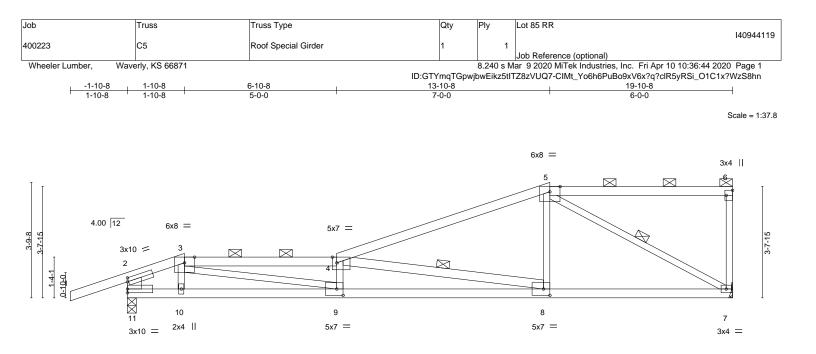




	9-10			<u>17-10-8</u> 8-0-0				
Plate Offsets (X,Y)	[2:0-2-12,0-0-15], [5:0-3-8,Edge], [8:0-0			0-0-0				
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.87 BC 0.69 WB 0.64 Matrix-S	DEFL. ir Vert(LL) -0.19 Vert(CT) -0.38 Horz(CT) 0.05 Wind(LL) 0.07	9 7-8 >999 360 8 7-8 >557 240 5 10 n/a n/a	PLATES MT20 M18SHS Weight: 65 lb	<b>GRIP</b> 197/144 197/144 FT = 10%		
4-5: 2x BOT CHORD 2x4 SP WEBS 2x3 SP 2-8: 2x OTHERS 2x4 SP REACTIONS. (size Max H Max U	PF 2100F 1.8E *Except* 4 SPF No.2 PF No.2 *Except* 6 SP 2400F 2.0E PF No.2 e) 8=0-3-8, 10=Mechanical orz 8=136(LC 4) plift 8=-227(LC 4), 10=-152(LC 4) irav 8=947(LC 1), 10=753(LC 1)		BRACING- TOP CHORD BOT CHORD WEBS	except end verticals, and	ng directly applied or 2-2-( d 2-0-0 oc purlins (6-0-0 n lied or 10-0-0 oc bracing. 4-6			
TOP CHORD 2-3=- BOT CHORD 7-8=- WEBS 4-7=0 NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; W MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 4) All plates are MT20 5) This truss has been will fit between the b 7) Refer to girder(s) for 8) Provide mechanical 8=227, 10=152. 9) This truss is designe referenced standard	Comp./Max. Ten All forces 250 (lb) or 1284/257, 3-4=-1074/164, 6-9=-46/491, 304/1121, 6-7=-171/979 0/380, 4-6=-943/173, 5-10=-763/156 e loads have been considered for this de fult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t vottom chord and any other members. truss to truss connections. connection (by others) of truss to bearin ed in accordance with the 2018 Internatio ANSI/TPI 1. presentation does not depict the size or	5-9=-46/491, 2-8=-845/27 sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical left e load nonconcurrent with he bottom chord in all area g plate capable of withstar	74 =6.0psf; h=25ft; Cat. II; E t and right exposed; Lur any other live loads. as where a rectangle 3- nding 100 lb uplift at join tions R502.11.1 and R8	nber DOL=1.60 plate 6-0 tall by 2-0-0 wide nt(s) except (jt=lb) 802.10.2 and	a so	F MISSOLA OTT M. EVIER		



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	1-10-8 6-10-8		13-10-8			19-10-8	
	1-10-8 5-0-0		7-0-0		1	6-0-0	
Plate Offsets (X,Y)	[2:0-0-8,0-1-8], [4:0-1-12,Edge], [6:Edg	e,0-2-8], [8:0-2-8,0-2-8], [9	:0-2-8,0-2-8]				
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. ii	n (loc) l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.93	Vert(LL) -0.27	7 8-9 >867	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.49	9 8-9 >474	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.83	Horz(CT) 0.05	5 7 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.22	2 8-9 >999	240	Weight: 73 lb	FT = 10%
LUMBER-			BRACING-				
TOP CHORD 2x4 S	SPF No.2 *Except*		TOP CHORD	Structural woo	d sheathing di	rectly applied or 3-5-2	2 oc purlins,
4-5: 2	2x4 SPF 2100F 1.8E			except end ve	rticals, and 2-0	)-0 oc purlins (2-2-14	max.): 3-4, 5-6.
BOT CHORD 2x4 S	SPF 2100F 1.8E		BOT CHORD	Rigid ceiling di	rectly applied	or 9-10-6 oc bracing.	
	SPF No.2 *Except*		WEBS	1 Row at midp	t 4	4-8, 5-7	
4-8: 2	2x4 SPF No.2, 2-11: 2x6 SP DSS						
Max Max	ize) 7=Mechanical, 11=0-3-8 Horz 11=160(LC 7) Uplift 7=-168(LC 4), 11=-290(LC 4) Grav 7=868(LC 1), 11=993(LC 1)						
TOP CHORD 2-3 BOT CHORD 10-	x. Comp./Max. Ten All forces 250 (lb) o =-1173/222, 3-4=-3411/629, 4-5=-1270/2 11=-239/1058, 9-10=-247/1075, 8-9=-63 =-475/2429, 4-9=-416/184, 4-8=-2264/46	30, 2-11=-734/222 4/3372, 7-8=-179/1120					
2) Wind: ASCE 7-16; MWFRS (envelope	ve loads have been considered for this d Vult=115mph (3-second gust) Vasd=91r e) gable end zone; cantilever left and righ	nph; TCDL=6.0psf; BCDL=					
grip DOL=1.60	drainage to prevent water ponding.						
	in designed for a 10.0 psf bottom chord li	e load nonconcurrent with	any other live loads				
	en designed for a live load of 20.0psf on			-6-0 tall by 2-0-0	wide		
	bottom chord and any other members.		asore a restangle o	5 5 tuli 5, 2 0 0		A	Bund
	or truss to truss connections.					B.F.O.	F MISS
	al connection (by others) of truss to beari	ng plate capable of withsta	nding 100 lb uplift at ioi	nt(s) except (it=lt	<b>b</b> )	STATE OF	N'OS
7=168, 11=290.					-,	BAY SC	N ST I
,	ned in accordance with the 2018 Internat	onal Residential Code sec	tions R502 11 1 and R	202 10 2 and		2 3/ 30	UTT IVI. VY

 This truss 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 185 lb up at 1-10-8 on top chord, and 25 lb down and 47 lb up at 1-10-8 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

#### Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek@ connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see **ANSVTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



SEVIER



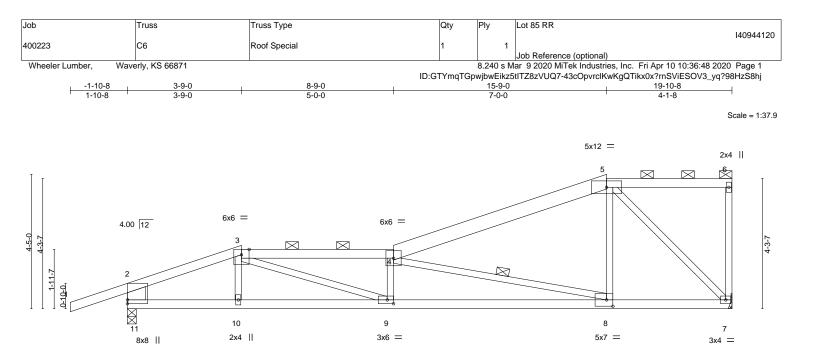
dof	Truss	Truss Type	Qty	Ply	Lot 85 RR
					I40944119
400223	C5	Roof Special Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:36:44 2020 Page 2

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## LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-11=-20 Concentrated Loads (lb) Vert: 3=38(F) 10=8(F)





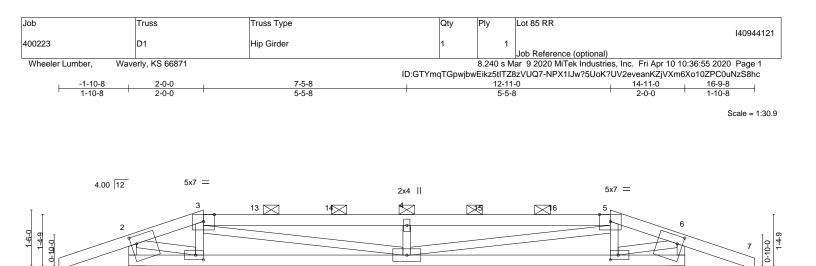
	<u>3-9-0</u> 3-9-0	8-9-0 5-0-0		<u>15-9-0</u> 7-0-0		-10-8		
Plate Offsets (X,Y)	<u>3-9-0</u> [2:0-1-3,0-3-10], [8:0-2-8,0-2-8], [9:0-2-8			7-0-0	4	-1-8		
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.86 BC 0.96 WB 0.96 Matrix-S	DEFL. in Vert(LL) -0.21 Vert(CT) -0.38 Horz(CT) 0.05 Wind(LL) 0.17	9-10 >999 360 9-10 >610 240	MT20	<b>GRIP</b> 197/144 7 lb FT = 10%		
1-3: 2x BOT CHORD 2x4 SF WEBS 2x3 SF	OP CHORD     2x4 SPF No.2 *Except*     TOP CHORD     Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals, and 2-0-0 oc purlins (2-9-6 max.): 3-4, 5-6.       OT CHORD     2x4 SPF No.2     BOT CHORD     BOT CHORD     Rigid ceiling directly applied or 2-2-0 oc bracing.       VEBS     2x3 SPF No.2 *Except*     WEBS     1 Row at midpt     4-8							
Max H Max U Max G	e) 7=Mechanical, 11=0-3-8 orz 11=190(LC 5) plift 7=-166(LC 4), 11=-253(LC 4) irav 7=868(LC 1), 11=1037(LC 1)							
TOP CHORD 2-3= BOT CHORD 10-1	Comp./Max. Ten All forces 250 (lb) or 1439/233, 3-4=-2497/421, 4-5=-842/15 <sup>-</sup> 1=-243/1280, 9-10=-247/1284, 8-9=-437 209/1284, 4-9=-282/147, 4-8=-1836/36 <sup>-</sup>	, 2-11=-878/245 /2513, 7-8=-92/741						
<ol> <li>2) Wind: ASCE 7-16; WMWFRS (envelope) grip DOL=1.60</li> <li>3) Provide adequate di</li> <li>4) This truss has been</li> <li>5) * This truss has been will fit between the b</li> <li>6) Refer to girder(s) for</li> </ol>	e loads have been considered for this de (ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t vottom chord and any other members. truss to truss connections. connection (by others) of truss to bearing	ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with he bottom chord in all are	t and right exposed; Lui any other live loads. as where a rectangle 3-	nber DOL=1.60 plate 6-0 tall by 2-0-0 wide	STATE	OF MISSOL		

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



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10

4x9 =

19

9

3x6 =

8

8x8 🗢

20

	2-0-0	7-5-8 5-5-8		<u>12-11-0</u> 5-5-8	14-11-0	
Plate Offsets (X,Y)	[8:0-1-3,0-0-6], [8:0-1-12,0-2-8], [9:0-2-		[12:0-1-3,0-0-6], [12:0-	1-12,0-2-8]		
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 NO Code IRC2018/TPI2014	CSI. TC 0.62 BC 0.38 WB 0.43 Matrix-S	DEFL. Vert(LL) -0. Vert(CT) -0. Horz(CT) 0. Wind(LL) 0.	3 10 >774 240 2 8 n/a n/a	PLATES         GRIP           MT20         197/144           Weight: 53 lb         FT = 10%	
LUMBER-       BRACING-         TOP CHORD       2x4 SPF No.2       TOP CHORD       Structural wood sheathing directly applied or 5-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-2 max.): 3-5.         WEBS       2x3 SPF No.2       BOT CHORD       Rigid ceiling directly applied or 6-0-0 oc bracing.						
Max H Max U	e) 12=0-5-8, 8=0-5-8 lorz 12=-11(LC 46)  plift 12=-254(LC 4), 8=-254(LC 5) irav 12=739(LC 21), 8=739(LC 22)					
TOP CHORD 2-3=- 6-8=- BOT CHORD 10-1	Comp./Max. Ten All forces 250 (lb) oi 980/243, 3-4=-2054/480, 4-5=-2054/480 -753/255 1=-201/961, 9-10=-208/962 =-261/1249, 4-10=-409/177, 5-10=-261/	0, 5-6=-980/243, 2-12=-75	;3/255,			
<ol> <li>2) Wind: ASCE 7-16; W MWFRS (envelope) grip DOL=1.60</li> <li>3) Provide adequate di 4) This truss has been 5) * This truss has bee will fit between the b</li> </ol>	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on vottom chord and any other members. connection (by others) of truss to bearin	<ul> <li>iph; TCDL=6.0psf; BCDL=</li> <li>exposed ; end vertical lef</li> <li>e load nonconcurrent with</li> <li>the bottom chord in all are</li> </ul>	ft and right exposed; L n any other live loads. as where a rectangle :	umber DOL=1.60 plate	State Miss	
<ul><li>12=254, 8=254.</li><li>7) This truss is designer referenced standard</li></ul>	ed in accordance with the 2018 Internati	onal Residential Code sec	ctions R502.11.1 and F	802.10.2 and	STATE OF MISSOL	
<ol> <li>9) Hanger(s) or other c 2-0-0, 53 lb down ar up at 9-5-8, and 53 lb up at 2-0-0, 8 lb d at 9-5-8, and 8 lb dd such connection dev</li> </ol>	resentation does not depict the size of it connection device(s) shall be provided sind 12 lb up at 3-5-8, 53 lb down and 12 lb down and 12 lb up at 11-5-8, and 11 down and 7 lb up at 3-5-8, 8 lb down an pown and 7 lb up at 11-5-8, and 26 lb do vice(s) is the responsibility of others. E(S) section, loads applied to the face of	ufficient to support concer lb up at 5-5-8, 53 lb down 7 lb down and 133 lb up a d 7 lb up at 5-5-8, 8 lb do wn and 49 lb up at 12-10	ntrated load(s) 117 lb d n and 12 lb up at 7-5- tt 12-11-0 on top chor wn and 7 lb up at 7-5 -4 on bottom chord. T	own and 133 lb up at , 53 lb down and 12 lb I, and 26 lb down and 49 8, 8 lb down and 7 lb up	SEVIER NUMBER PE-2001018807	
LOAD CASE(S) Stan	dard				STONAL ENGL	

12 8x8 ≠

11

3x6 =

17

18

### Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven 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 **ANSUTP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



April 10,2020

Job	Truss	Truss Type	Qty	Ply	Lot 85 RR
					140944121
400223	D1	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:36:55 2020 Page 2

ID:GTYmqTGpwjbwEikz5tITZ8zVUQ7-NPX1IJw?5UoK?UV2eveanKZjVXm6Xo10ZPC0uNzS8hc

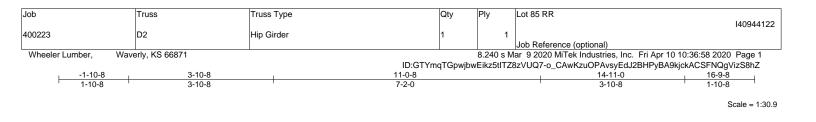
LOAD CASE(S) Standard

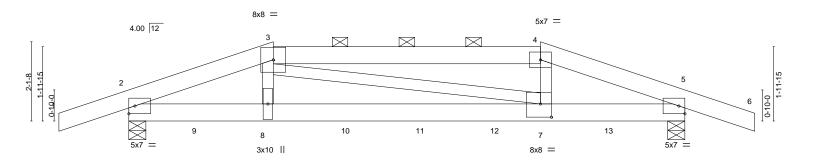
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-12=-20 Concentrated Loads (lb)

Vert: 3=37(F) 5=37(F) 11=7(F) 10=7(F) 9=7(F) 17=7(F) 18=7(F) 19=7(F) 20=7(F)







	3-10-8 3-10-8		<u>11-0-8</u> 7-2-0			<u>14-11-0</u> 3-10-8	4
Plate Offsets (X,Y)	[7:0-3-8,0-4-4]		1-2-0			3-10-0	
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 NO Code IRC2018/TPI2014	CSI. TC 0.85 BC 0.58 WB 0.27 Matrix-S	DEFL.         in           Vert(LL)         -0.14           Vert(CT)         -0.25           Horz(CT)         0.04           Wind(LL)         0.10	(loc) l/defl 7-8 >999 7-8 >696 5 n/a 7-8 >999	L/d 360 240 n/a 240	<b>PLATES</b> MT20 Weight: 81 lb	<b>GRIP</b> 197/144 FT = 10%
	DSS		BRACING- TOP CHORD BOT CHORD	2-0-0 oc purlins	(3-5-2 max.):	ectly applied or 3-9-8 3-4. or 10-0-0 oc bracing.	oc purlins, except
Max G FORCES. (lb) - Max. ( TOP CHORD 2-3=-3 BOT CHORD 2-8=-3	plift 2=-406(LC 4), 5=-397(LC 5) rav 2=1752(LC 1), 5=1731(LC 1) Comp./Max. Ten All forces 250 (lb) or 3664/657, 3-4=-3179/603, 4-5=-3631/64 578/3331, 7-8=-569/3235, 5-7=-559/327 113/1026, 4-7=-131/1119	16					
<ol> <li>Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60</li> <li>Provide adequate dr 4) This truss has been 5) * This truss has been will fit between the busilet</li> </ol>	loads have been considered for this de ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right ainage to prevent water ponding. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on t ottom chord and any other members. connection (by others) of truss to bearin	ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with he bottom chord in all are	t and right exposed; Lum any other live loads. as where a rectangle 3-6	ber DOL=1.60 pl			
<ul> <li>2=406, 5=397.</li> <li>7) This truss is designe referenced standard</li> <li>8) Graphical purlin repr</li> <li>9) Hanger(s) or other cr 1-10-12, 283 lb dowr</li> </ul>	d in accordance with the 2018 Internatio ANSI/TPI 1. esentation does not depict the size or th onnection device(s) shall be provided su n and 67 lb up at 3-10-12, 283 lb down	onal Residential Code sec ne orientation of the purlin ifficient to support concen and 67 lb up at 5-10-12, 2	tions R502.11.1 and R80 along the top and/or bott trated load(s) 283 lb dow 283 lb down and 67 lb up	2.10.2 and om chord. n and 67 lb up at at 7-10-12, 283	lb		TTT M. SVIER
The design/selection 10) In the LOAD CASE LOAD CASE(S) Stand	t 9-10-12, and 283 lb down and 67 lb up of such connection device(s) is the resp (S) section, loads applied to the face of dard alanced): Lumber Increase=1.15, Plate I	ponsibility of others. the truss are noted as fro		11-8 on bottom c	hord.		MBERROW 01018807
Vert: 1-3=-7	0, 3-4=-70, 4-6=-70, 2-5=-20						pril 10,2020

Continued on page 2



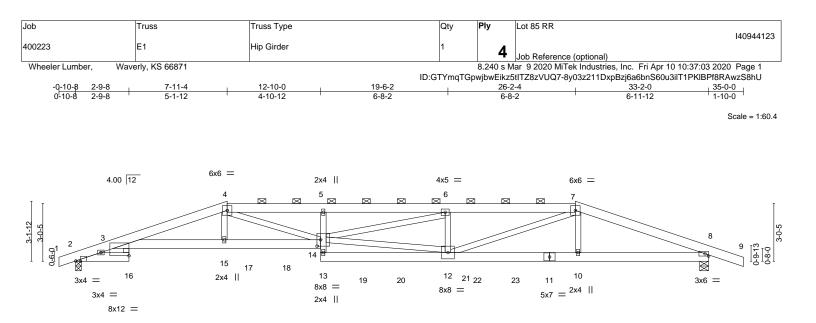
Ī	lob	Truss	Truss Type	Qty	Ply	Lot 85 RR
						140944122
4	100223	D2	Hip Girder	1	1	
						Job Reference (optional)
	Wheeler Lumber, Wave	rly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:36:59 2020 Page 2

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:36:59 2020 Page 2 ID:GTYmqTGpwjbwEikz5tlTZ8zVUQ7-GAmY7gzW9jImU6optljWxAkLv83rTdRcU1AE18zS8hY

#### LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 8=-283(B) 7=-283(B) 9=-283(B) 10=-283(B) 11=-283(B) 12=-283(B) 13=-191(B)





2-9-8	7-11-4	12-10-0	19	-6-2		26-2-4	I	33-2-0	
2-9-8	5-1-12	4-10-12		8-2		6-8-2	1	6-11-12	
Plate Offsets (X,Y)	[2:0-2-15,Edge], [3:0-8-4,0-2	2-12], [3:0-1-12,0-0-0]	[14:0-2-4,0-4-0	], [16:Edge,0-2-0]	, [16:0-1-1	2,0-0-0]			
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	Plate Grip DOL	2-0-0 CS 1.15 TC 1.15 BC NO WE 014 Ma	0.67 0.50	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.31	oc) l/defl 14 >999 14 >727 8 n/a 14 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 814 lb	<b>GRIP</b> 197/144 FT = 10%
BOT CHORD 2x6 SI WEBS 2x4 SI REACTIONS. (siz	OP CHORD       2x6 SP 2400F 2.0E       TOP CHORD       Structural wood sheathing directly applied or 6-0-0 oc purlins, except         OT CHORD       2x6 SP 2400F 2.0E       2-0-0 oc purlins (6-0-0 max.): 4-7.         IZBS       2x4 SPF No.2       BOT CHORD       Rigid ceiling directly applied or 10-0-0 oc bracing.								oc purlins, except
FORCES.         (lb)         - Max           TOP CHORD         2-3=         7-8=           BOT CHORD         3-15         8-10           WEBS         13-1	Jplift 2=-846(LC <sup>4</sup> ), 8=-924(L Grav 2=3543(LC 1), 8=3684( Comp./Max. Ten All force: -1181/314, 3-4=-13429/3194 -9139/2163 =-3035/12916, 14-15=-3008/ =-1930/8433 4=-129/687, 5-14=-263/216, =-773/3145, 6-12=-1512/454	LC 1) s 250 (lb) or less exce , 4-5=-15968/3877, 5- 12782, 12-13=-411/17 4-15=-360/1803, 4-14	6=-15400/3746, '51, 10-12=-191 =-933/3631, 12-	6-7=-12406/3004 6/8359,	ŀ,				
<ul> <li>Top chords connect Bottom chords connected as Attach BC w/ 1/2" d</li> <li>2) All loads are consid ply connections hav 3) Unbalanced roof liv</li> <li>4) Wind: ASCE 7-16; 1 MWFRS (envelope) grip DOL=1.60</li> <li>5) Provide adequate d</li> <li>6) This truss has beer</li> <li>7) * This truss has beer will fit between the l</li> <li>8) Provide mechanical 2=846, 8=924.</li> <li>9) This truss is design referenced standard</li> </ul>	nnected together with 10d (0. ted as follows: 2x6 - 2 rows s hected as follows: 2x6 - 2 row follows: 2x4 - 1 row at 0-9-0 iam. bolts (ASTM A-307) in ti ered equally applied to all pli re been provided to distribute e loads have been considere /ult=115mph (3-second gust) gable end zone; cantilever la rainage to prevent water pon designed for a 10.0 psf botto en designed for a live load of pottom chord and any other m connection (by others) of tru ed in accordance with the 20 JANSI/TPI 1.	taggered at 0-9-0 oc. <i>is</i> staggered at 0-7-0 of oc. he center of the memb es, except if noted as only loads noted as ( d for this design. ) Vasd=91mph; TCDL eft and right exposed ding. om chord live load nor 20.0psf on the bottom nembers. Iss to bearing plate ca 18 International Resid	c. er w/washers at front (F) or back F) or (B), unless =6.0psf; BCDL= end vertical left concurrent with chord in all area pable of withstal ential Code sect	(B) face in the Li otherwise indica 6.0psf; h=25ft; Ca t and right expose any other live loa as where a rectar nding 100 lb uplift tions R502.11.1 a	ed. tt. II; Exp C d; Lumber ds. gle 3-6-0 t at joint(s) nd R802.1	C; Enclosed; DOL=1.60 p all by 2-0-0 v except (jt=lb 0.2 and	late vide	TO PE-200	MISSOLUTI M. VIER DI018807 AL ENGINE DI01807 D



Job	Truss	Truss Type	Qty	Ply	Lot 85 RR
					140944123
400223	E1	Hip Girder	1	4	Job Reference (optional)
				-	Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:37:04 2020 Page 2

#### NOTES-

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11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 846 lb down and 242 lb up at 7-11-4, 260 lb down and 82 lb up at 9-0-12, 260 lb down and 82 lb up at 12-11-12, 283 lb down and 87 lb up at 15-0-12, 283 lb down and 87 lb up at 15-0-12, 283 lb down and 87 lb up at 19-0-12, 283 lb down and 87 lb up at 19-0-12, 283 lb down and 87 lb up at 23-0-12, and 283 lb down and 87 lb up at 25-0-12, and 722 lb down and 216 lb up at 26-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

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

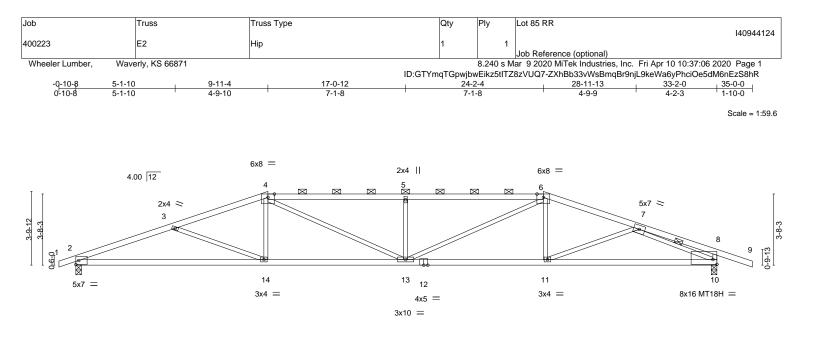
Uniform Loads (plf)

Vert: 1-4=-70, 4-7=-70, 7-9=-70, 2-16=-20, 3-14=-20, 8-13=-20

Concentrated Loads (lb)

Vert: 14=-262(F) 11=-283(F) 15=-846(F) 10=-722(F) 17=-260(F) 18=-260(F) 19=-283(F) 20=-283(F) 21=-283(F) 22=-283(F) 23=-283(F) 23=-2





	9-11-4	17-0-12		2-4		33-2-0	
Plate Offsets (X,Y) [8:0-	9-11-4 -1-4,0-0-7], [10:Edge,0-3-0]	7-1-8	7-'	1-8	·	8-11-12	·
	1 1,0 0 1], [10.20g0,0 0 0]						
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 0.66 BC 0.83 WB 0.64 Matrix-S	DEFL.         ir           Vert(LL)         -0.29           Vert(CT)         -0.52           Horz(CT)         0.14           Wind(LL)         0.22	) 13 >999 2 2-14 >753 4 10 n/a	L/d 360 240 n/a 240	PLATES MT20 MT18H Weight: 112 lb	<b>GRIP</b> 197/144 197/144 FT = 10%
LUMBER-       BRACING-         TOP CHORD       2x4 SPF No.2 *Except*       TOP CHORD       Structural wood sheat         4-6: 2x4 SPF No.2 *Except*       DOP CHORD       Structural wood sheat         BOT CHORD       2x4 SPF No.2 *Except*       BOT CHORD       Rigid ceiling directly a         2-12: 2x4 SPF 2100F 1.8E       WEBS       1 Row at midpt						) oc purlins (3-4-5 ma	
Max Horz Max Uplift	2=0-3-8, 10=0-3-8 2=55(LC 8) 2=-302(LC 4), 10=-340(LC 5) 2=1550(LC 1), 10=1620(LC 1)						
TOP CHORD         2-3=-3517           7-8=-406/           BOT CHORD         2-14=-620           WEBS         3-14=-262	np./Max. Ten All forces 250 (lb) or 7/680, 3-4=-3221/556, 4-5=-3685/67 (16, 8-10=-419/140 0/3245, 13-14=-447/3007, 11-13=-3 2/234, 4-14=0/385, 4-13=-226/921, 5 55, 7-11=0/391, 7-10=-2591/571	79, 5-6=-3685/679, 6-7=-3 67/2817, 10-11=-443/265	011/508, 3				
<ol> <li>Wind: ASCE 7-16; Vult=' MWFRS (envelope) gabl grip DOL=1.60</li> <li>Provide adequate draina</li> <li>All plates are MT20 plate</li> <li>This truss has been desi</li> <li>* This truss has been desi will fit between the bottor</li> <li>Provide mechanical conr 2=302, 10=340.</li> <li>This truss is designed in referenced standard ANS</li> </ol>	ds have been considered for this de 115mph (3-second gust) Vasd=91m le end zone; cantilever left and right ge to prevent water ponding. as unless otherwise indicated. gned for a 10.0 psf bottom chord liv signed for a live load of 20.0psf on t m chord and any other members. hection (by others) of truss to bearin accordance with the 2018 Internation SI/TPI 1. Intation does not depict the size or th	ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with he bottom chord in all are ng plate capable of withsta	t and right exposed; Lur any other live loads. as where a rectangle 3- inding 100 lb uplift at join tions R502.11.1 and R8	nber DOL=1.60 p 6-0 tall by 2-0-0 w nt(s) except (jt=lb) 02.10.2 and	ide	SE	MISSOLA TT M. VIER MBER 11018807





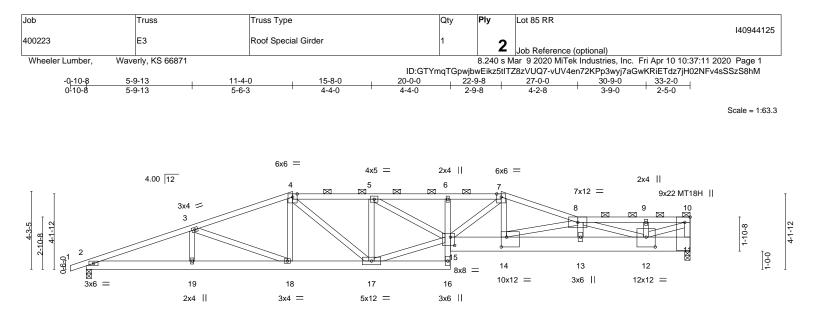


Plate Offsets (X,Y)         [10:0-3-8,Edge], [11:0-0-0,0-1-12], [12:0-6-0,0-6-8], [14:0-3-8,0-6-8], [15:0-2-12,0-5-8]           LOADING (psf)         SPACING-         2-0-0         CSI.         DEFL.         in         (loc)         I/defl	2-8 3-9-0 2-5-0							
TCLL         25.0         Plate Grip DOL         1.15         TC         0.55         Vert(LL)         -0.27         16         >999           TCDL         10.0         Lumber DOL         1.15         BC         0.71         Vert(CT)         -0.49         16         >812           BCLL         0.0 *         Rep Stress Incr         NO         WB         0.49         Horz(CT)         0.08         11         n/a           BCDL         10.0         Code IRC2018/TPI2014         Matrix-S         Wind(LL)         0.21         16         >999	n/a							
BOT CHORD 2x4 SPF No.2 *Except* except end ve	d sheathing directly applied or 4-2-13 oc purlins, rticals, and 2-0-0 oc purlins (3-11-13 max.): 4-7, 8-10. irectly applied or 10-0-0 oc bracing.							
REACTIONS.         (size)         11=0-3-8 (req. 0-5-3), 2=0-3-8           Max Horz         2=105(LC 29)           Max Uplift         11=-1301(LC 5), 2=-356(LC 4)           Max Grav         11=6611(LC 1), 2=1903(LC 1)								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-4661/786, 3-4=-4178/728, 4-5=-4655/823, 5-6=-6842/1190, 6-7=-6846/1190, 7-8=-7346/1266, 8-9=-7855/1379, 9-10=-7855/1379, 10-11=-4653/834         BOT CHORD       2-19=-777/4321, 18-19=-777/4321, 17-18=-650/3902, 16-17=-132/802, 6-15=-352/121, 14-15=-1178/6857, 13-14=-1927/10964, 12-13=-1919/10954, 11-12=-59/261         WEBS       3-18=-456/239, 4-18=-20/353, 4-17=-222/1157, 5-17=-1765/398, 15-17=-651/3995, 5-15=-474/2582, 7-15=-464/484, 7-14=-316/2091, 8-14=-4204/771, 8-13=-301/310, 10-12=-1560/8824, 8-12=-3291/550								
<ul> <li>NOTES- <ol> <li>2-ply truss to be connected together with 10d (0.131"x3") nails as follows: <ol> <li>Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.</li> <li>Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0 oc.</li> <li>Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.</li> </ol> </li> <li>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 connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.</li> <li>Unbalanced roof live loads have been considered for this design.</li> <li>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 grip DOL=1.60</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>All plates are MT20 plates unless otherwise indicated.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* 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 will fit between the bottom chord and any other members.</li> <li>WARNING: Required bearing size at joint(s) 11 greater than input bearing size.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt= 11=301, 2=356.</li> </ol> </li> </ul>	Ply to plate wide SCOTT M. SEVIER PE-2001018807 STONAL ENGL STONAL ENGL SCOTT M. SEVIER							
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								

besign valid to get only with with the contractions. This design is based only door parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual russ 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.

Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

	Job	Truss	Truss Type	Qty	Ply	Lot 85 RR
						140944125
	400223	E3	Roof Special Girder	1	ົ	
					2	Job Reference (optional)
	Wheeler Lumber, Wave	erly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:37:11 2020 Page 2
ID:GTYmqTGpwjbwEikz5t1TZ8zVUQ7-vUV4en7					8zVUQ7-vUV4en72KPp3wyj7aGwKRiETdz7jH02NFv4sSSzS8hM	

## NOTES-

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

(1) This fittes is designed in accordance with the 2016 international robating for experimentation (accord accord a

## LOAD CASE(S) Standard

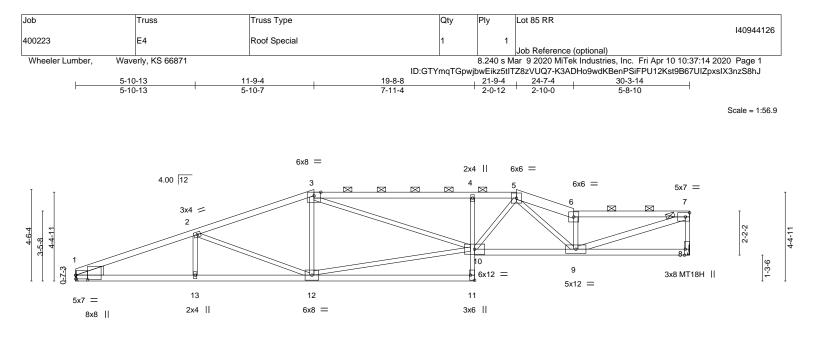
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-70, 4-7=-70, 7-8=-70, 8-10=-70, 2-16=-20, 11-15=-20

Concentrated Loads (lb) Vert: 11=-401(F) 12=-5082(F)





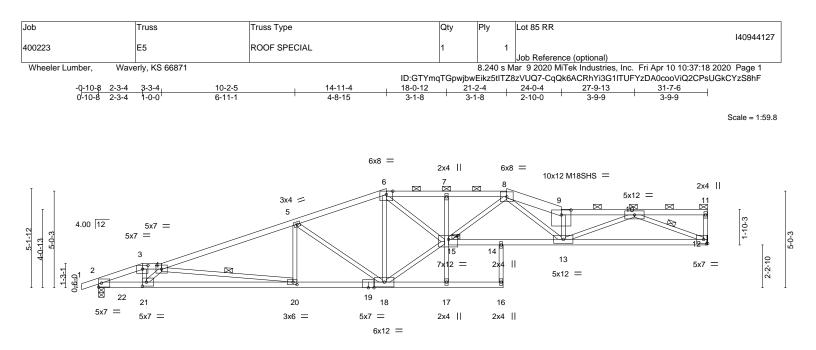
		1-9-4 -10-7	<u>19-8-8</u> 7-11-4	21-9-4 24-7		30-3-14 5-8-10	4		
Plate Offsets (X,Y)	[1:0-2-12,0-7-1], [1:0-0-0,0-2-4]			2-0-12 2-10	-0	3-6-10			
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE Code IRC2018/TPI2014	5 TC 0.98 5 BC 0.92 5 WB 0.82	Vert(CT) - Horz(CT)	in (loc) l/defl 0.27 9-10 >999 0.55 11-12 >654 0.13 8 n/a 0.15 10 >999	L/d 360 240 n/a 240	<b>PLATES</b> MT20 MT18H Weight: 115 lb	<b>GRIP</b> 197/144 197/144 FT = 10%		
3-5: 2: BOT CHORD 2x4 SI 4-11: 2 WEBS 2x3 SI 7-9: 2: WEDGE	PF No.2 *Except* x4 SPF 2100F 1.8E, 5-6: 2x6 SF PF No.2 *Except* 2x3 SPF No.2 PF No.2 *Except* x4 SPF No.2	F No.2	BRACING- TOP CHORD BOT CHORD	except end vertic	cals, and 2-0-0	ctly applied or 2-4-15 oc purlins (2-2-0 ma 10-0-0 oc bracing.			
Left: 2x6 SPF No.2 <b>REACTIONS.</b> (size) 8=Mechanical, 1=Mechanical Max Horz 1=83(LC 5) Max Uplift 8=-54(LC 5), 1=-53(LC 4) Max Grav 8=1357(LC 1), 1=1357(LC 1) <b>FORCES.</b> (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       1-2=-3183/139, 2-3=-2592/120, 3-4=-3402/162, 4-5=-3411/155, 5-6=-3548/137, 6-7=-3252/102, 7-8=-1295/81         BOT CHORD       1-13=-151/2922, 12-13=-151/2922, 4-10=-585/131, 9-10=-120/2876         WEBS       2-12=-574/101, 10-12=-94/2309, 3-10=-102/1165, 5-10=-82/952, 5-9=-20/640,									
NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; MWFRS (envelope) 3) Provide adequate d 4) All plates are MT20 5) This truss has beer will fit between the I 7) Refer to girder(s) fo 8) Provide mechanica 9) This truss is design referenced standard	1419/125, 7-9=-114/3359 ve loads have been considered fo Vult=115mph (3-second gust) Va ); cantilever left and right expose drainage to prevent water pondin o plates unless otherwise indicate n designed for a 10.0 psf bottom en designed for a live load of 20. bottom chord and any other men or truss to truss connections. al connection (by others) of truss ned in accordance with the 2018 d ANSI/TPI 1. epresentation does not depict the	sd=91mph; TCDL=6.0psf; BCD d; end vertical left and right exp J. d. shord live load nonconcurrent w Opsf on the bottom chord in all a ibers. o bearing plate capable of withs international Residential Code s	bosed; Lumber DOL=1 with any other live loads areas where a rectangl standing 100 lb uplift a sections R502.11.1 and	.60 plate grip DOL=1.6 s. le 3-6-0 tall by 2-0-0 wi t joint(s) 8, 1. d R802.10.2 and		SE OTEN	MISSOLUTI MISSOLUTI VIER		

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 preven 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 **ANSUTP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



April 10,2020

16023 Swingley Ridge Rd Chesterfield, MO 63017



$\vdash \frac{2}{2}$	3-4 3-3-4 3-4 1-0-0	<u>10-2-5</u> 6-11-1	<u>14-11-4</u> 4-8-15	18-0-12	21-0-0	24-0-4		<u>31-7-6</u> 7-7-2			
			2,0-2-4], [20:0-2-8,0-1-8]		2-11-4	3-0-4		1-1-2			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip D Lumber DO Rep Stress	2-0-0 OL 1.15 L 1.15	CSI. TC 0.75 BC 0.81 WB 0.97 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.41 14-15 -0.74 14-15 0.20 12 0.30 15	>921 >506	L/d 360 240 n/a 240	PLATES MT20 M18SHS Weight: 123 lb	<b>GRIP</b> 197/144 197/144 FT = 10%		
LUMBER- TOP CHORD 2x4 SPF No.2 *Except* 4-6,9-11: 2x4 SPF 2100F 1.8E, 8-9: 2x6 SPF No.2 BOT CHORD 2x4 SPF 2100F 1.8E *Except* 16-19: 2x4 SPF No.2 WEBS 2x3 SPF No.2					except er 9-11. BOT CHORD Rigid ceil 8-7-5 oc 8-0-2 oc WEBS 1 Row at			Structural wood sheathing directly applied or 2-11-12 oc purlins, xcept end verticals, and 2-0-0 oc purlins (2-5-13 max.): 3-4, 6-8, -11. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: -7-5 oc bracing: 20-21 -0-2 oc bracing: 18-20. Row at midpt 4-20, 10-12 Brace at Jt(s): 11, 15			
Max H Max U	e) 12=Mechanica orz 2=144(LC 29) plift 12=-227(LC 5) irav 12=1420(LC 1	, 2=-339(LC 4)					.,				
TOP CHORD 2-3=- 7-8=- BOT CHORD 2-21= 12-1: WEBS 3-21= 6-18=	7-8=-4352/696, 8-9=-5459/798, 9-10=-5050/712 BOT CHORD 2-21=-553/3093, 20-21=-833/4343, 18-20=-550/3126, 14-15=-594/3900, 13-14=-594/3900, 12-13=-526/2957										
<ul> <li>NOTES- <ol> <li>Unbalanced roof live loads have been considered for this design.</li> <li>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</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>All plates are MT20 plates unless otherwise indicated.</li> <li>This truss has been designed for a live load of 20.0ps fo nthe 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.</li> <li>Refer to girder(s) for truss to truss connections.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=227, 2=339.</li> <li>This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.</li> <li>Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> <li>Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 281 lb down and 76 lb up at 1-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.</li> </ol></li></ul>											
Design valid for use on a truss system. Before building design. Braci is always required for fabrication, storage, d	nly with MiTek® connect a use, the building design ing indicated is to prever stability and to prevent of elivery, erection and bra	ors. This design is based o ner must verify the applicab at buckling of individual trus collapse with possible perso cing of trusses and truss sy	ND INCLUDED MITEK REFEREN nly upon parameters shown, an ility of design parameters and p s web and/or chord members or nal injury and property damage. stems, see ANS/ITP11 et, Suite 312, Alexandria, VA 22	d is for an individual bu roperly incorporate this nly. Additional tempora For general guidance Quality Criteria, DSE	ilding componen design into the c ry and permaner regarding the	t, not overall ht bracing	onent	Mitek 16023 Swingh Chesterfield, N			

	Job	Truss	Truss Type	Qty	Ply	Lot 85 RR
	100000					I40944127
	400223	E5	ROOF SPECIAL	1	1	
						Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871				8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:37:18 2020 Page 2		
ID:GTYmqTGpwjbwEikz5tlTZ8zVUQ7-CqQk6ACRhYi3G1ITUFYzDA0cooViQ2Cl						zVUQ7-CqQk6ACRhYi3G1ITUFYzDA0cooViQ2CPsUGkCYzS8hF

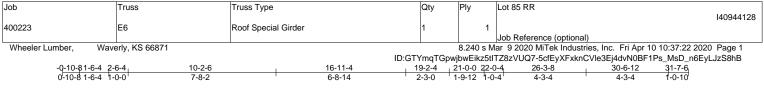
LOAD CASE(S) Standard

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

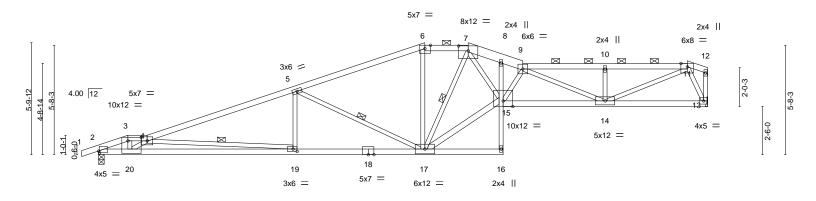
Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 4-6=-70, 6-8=-70, 8-9=-70, 9-11=-70, 2-16=-20, 12-14=-20

Concentrated Loads (lb) Vert: 22=-281(F)





Scale = 1:59.8



	4 <u>2-6-4</u> <u>10-2-6</u> 4 1-0-0 7-8-2	<u> </u>	21-0-0	26-3-8	31-7-6 5-3-14					
	[2:0-0-8,0-1-2], [3:0-8-4,0-2-4], [7:0		4-0-12	5-5-6	J-J-14					
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 NO Code IRC2018/TPI2014	CSI. TC 0.92 BC 0.85 WB 0.97 Matrix-S	DEFL.         in           Vert(LL)         -0.34           Vert(CT)         -0.61           Horz(CT)         0.17           Wind(LL)         0.24	(loc) l/defl L/d 16 >999 360 16 >614 240 13 n/a n/a 16 >999 240	PLATES         GRIP           MT20         197/144           Weight: 125 lb         FT = 10%					
4-6: 2x BOT CHORD 2x4 SF 8-16: 2 WEBS 2x3 SF	TOP CHORD2x4 SPF No.2 *Except* 4-6: 2x4 SPF 2100F 1.8E, 7-9: 2x6 SPF No.2TOP CHORDStructural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-10-5 max.): 3-4, 6-7, 9-11.BOT CHORD2x4 SPF 2100F 1.8E *Except* 8-16: 2x3 SPF No.2, 16-18: 2x4 SPF No.2BOT CHORDRigid ceiling directly applied or 8-2-1 oc bracing. 1 Row at midptWEBS2x3 SPF No.2 *Except* 15-17: 2x4 SPF No.2WEBS1 Row at midpt									
REACTIONS.         (size)         2=0-3-8, 13=Mechanical           Max Horz         2=163(LC 29)           Max Uplift         2=-260(LC 4), 13=-214(LC 5)           Max Grav         2=1484(LC 1), 13=1410(LC 1)										
TOP CHORD 2-3=- 7-8=- BOT CHORD 2-20 13-14 WEBS 3-20 6-17=	7-8=-4253/589, 8-9=-4416/591, 9-10=-3208/452, 10-11=-3210/453 BOT CHORD 2-20=-370/2424, 19-20=-760/4208, 17-19=-522/3106, 8-15=-25/358, 14-15=-674/4722, 13-14=-130/670									
<ul> <li>NOTES-</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>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</li> <li>3) Provide adequate drainage to prevent water ponding.</li> <li>4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>5) * This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>6) Refer to girder(s) for truss to truss connections.</li> <li>7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=260, 13=214.</li> <li>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.</li> <li>9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> <li>10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 19 lb up at 1-6-4 on top chord, and at 1-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.</li> <li>11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).</li> <li>Continued on page 2</li> </ul>										
Design valid for use o a truss system. Before building design. Brac is always required for fabrication, storage, d	dard design parameters and READ NOTES ON 1 nly with MiTek® connectors. This design is b use, the building designer must verify the a ing indicated is to prevent buckling of individu stability and to prevent collapse with possible elivery, erection and bracing of trusses and the available from Truss Plate Institute, 218 N. Le	sed only upon parameters shown, and plicability of design parameters and pro- al truss web and/or chord members on personal injury and property damage. iss systems, see <b>ANS//TPI1</b>	t is for an individual building co operly incorporate this design i ly. Additional temporary and p For general guidance regardir Quality Criteria, DSB-89 and	nponent, not nto the overall ermanent bracing g the	NiTek° 16023 Swingley Ridge Rd Chesterfield, MO 63017					

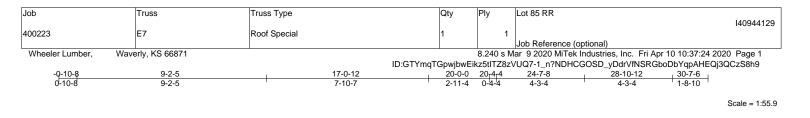
Job	Truss	Truss Type	Qty	Ply	Lot 85 RR
100000	50				140944128
400223	E6	Roof Special Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871			8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:37:22 2020 Page 2		
ID:				bwEikz5tl	TZ8zVUQ7-5cfEyXFxknCVle3Ej4dvN0BF1Ps_MsD_n6EyLJzS8hB

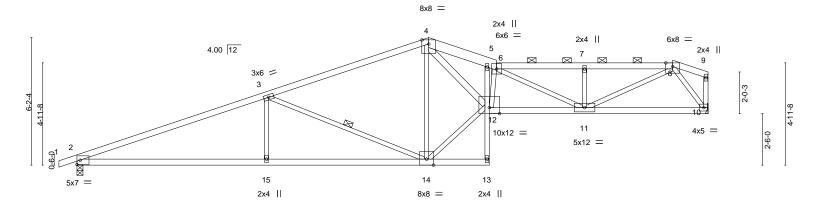
## LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 7-9=-70, 9-11=-70, 11-12=-70, 2-16=-20, 13-15=-20



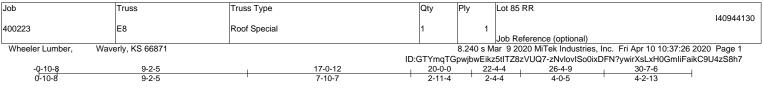




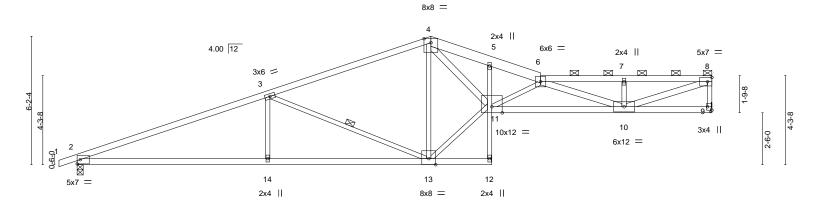
ŀ	9-2-5 9-2-5	<u>17-0-12</u> 7-10-7	20-0-0		24-7-8 4-7-8	<u> </u>	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	<b>CSI.</b> TC 0.90 BC 0.59 WB 0.82 Matrix-S	DEFL. Vert(LL) -0.2 Vert(CT) -0.5 Horz(CT) 0.7 Wind(LL) 0.7	i0 13 5 10	>729 240	PLATES MT20 Weight: 114 lb	<b>GRIP</b> 197/144 FT = 10%
1-4: 2x4 BOT CHORD 2x4 SP 5-13: 2x WEBS 2x3 SP 4-12: 2x	x3 SPF No.2 F No.2 *Except* x4 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	2-0-0 ( Rigid (	ural wood sheathing di oc purlins (2-11-7 max ceiling directly applied / at midpt	.): 6-8.	end verticals, and
Max Ho Max Up Max Gr FORCES. (lb) - Max. Gr TOP CHORD 2-3=- 7-8=- BOT CHORD 2-15=	<ul> <li>2=0-3-8, 10=Mechanical orz 2=113(LC 8)</li> <li>plift 2=-64(LC 4), 10=-39(LC 5)</li> <li>rav 2=1439(LC 1), 10=1365(LC 1)</li> <li>Comp./Max. Ten All forces 250 (lb) or 3134/73, 3-4=-1989/54, 4-5=-4174/103, 3051/71</li> <li>-107/2860, 14-15=-107/2860, 5-12=-16/</li> <li>0/383, 3-14=-1180/115, 4-14=-956/91, -</li> </ul>	5-6=-4323/87, 6-7=-3048/ 299, 11-12=-98/4230, 10-	11=-53/941				
<ul> <li>6-12=</li> <li>NOTES-</li> <li>1) Unbalanced roof live</li> <li>2) Wind: ASCE 7-16; V MWFRS (envelope);</li> <li>3) Provide adequate dra</li> <li>4) This truss has been of</li> <li>5) * This truss has been will fit between the bo</li> <li>6) Refer to girder(s) for</li> <li>7) Provide mechanical of</li> <li>8) This truss is designer referenced standard</li> </ul>	-1274/68, 6-11=-1326/57, 7-11=-383/81 loads have been considered for this deult=115mph (3-second gust) Vasd=91m cantilever left and right exposed ; end v ainage to prevent water ponding. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on ti ottom chord and any other members. truss to truss connections. connection (by others) of truss to bearin d in accordance with the 2018 Internatic	, 8-11=-29/2377, 8-10=-15 sign. ph; TCDL=6.0psf; BCDL=6 ertical left and right expos e load nonconcurrent with he bottom chord in all area g plate capable of withstar nal Residential Code sect	557/82 6.0psf; h=25ft; Cat. II; ed; Lumber DOL=1.60 any other live loads. is where a rectangle 3 nding 100 lb uplift at jo ions R502.11.1 and R	) plate gri 3-6-0 tall t int(s) 2, 1 802.10.2	ip DOL=1.60 by 2-0-0 wide 10. and	SE SE	MISSOUTH VIER MBER 01018807







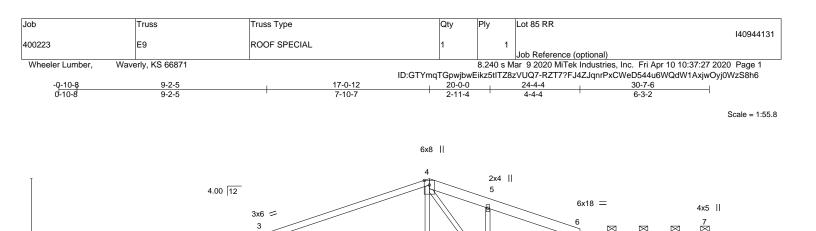
Scale = 1:55.6



	9-2-5	17-0-12	20-0-0		26-4-9	30-7-6			
Plate Offsets (X,Y)	9-2-5 [9:Edge,0-2-8]	7-10-7	2-11-4		6-4-9	4-2-13			
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 0.91 BC 0.67 WB 0.84 Matrix-S	Vert(LL) -0.34	10-11 >588 9 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 115 lb	<b>GRIP</b> 197/144 FT = 10%		
LUMBER-       BRACING-         TOP CHORD       2x4 SPF 2100F 1.8E *Except*       TOP CHORD       Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-9-13 max.): 6-8.         BOT CHORD       2x4 SPF 2100F 1.8E *Except*       BOT CHORD       Rigid ceiling directly applied or 9-1-13 oc bracing.         5-12: 2x3 SPF No.2       WEBS       1 Row at midpt       3-13									
Max H Max U	e) 9=Mechanical, 2=0-3-8 lorz 2=169(LC 8)  plift 9=-200(LC 5), 2=-244(LC 4) irav 9=1365(LC 1), 2=1439(LC 1)								
TOP CHORD 2-3=- 7-8=- BOT CHORD 2-14= WEBS 3-14=	Comp./Max. Ten All forces 250 (lb) or -3133/431, 3-4=-1990/274, 4-5=-4129/56 -3290/437, 8-9=-1311/210 481/2860, 13-14=-481/2860, 10-11=-7 =0/383, 3-13=-1179/300, 4-13=-962/202 =-1585/287, 6-10=-2130/326, 7-10=-329	30, 5-6=-4197/524, 6-7=-329 41/5283 , 11-13=-265/2346, 4-11=-45							
<ul> <li>6-11=-1585/287, 6-10=-2130/326, 7-10=-329/137, 8-10=-465/3435</li> <li>NOTES- <ol> <li>Unbalanced roof live loads have been considered for this design.</li> <li>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</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* 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.</li> <li>Refer to girder(s) for truss to truss connections.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=200, 2=244.</li> <li>This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP11.</li> <li>Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> </ol></li></ul>									







12

6x8 =

10

11

2x4 ||

8x12 =

L	9-2-5	17-0-12	20-0-0	24-4-4	30-7-6	
Plata Offacta (V.V)	9-2-5	7-10-7	2-11-4	4-4-4	6-3-2	
Plate Offsets (X,Y)	[7: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 IncrNOCodeIRC2018/TPI2014	<b>CSI.</b> TC 0.94 BC 0.64 WB 0.81 Matrix-S	Vert(CT) -0.46 Horz(CT) 0.14	↓ 9-10 >999 360 6 2-13 >797 240	MT20	<b>GRIP</b> 197/144 FT = 10%
BOT CHORD         2x4 SPI           5-11: 2x           WEBS         2x3 SPI	SPF No.2, 6-7: 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	2-0-0 oc purlins (6-0-0	hing directly applied, except ) max.): 6-7. pplied or 10-0-0 oc bracing. 3-12, 6-8	end verticals, and
Max Ho Max Up Max Gr FORCES. (Ib) - Max. Gr TOP CHORD 2-3=-3 BOT CHORD 2-13= WEBS 3-13=	) 8=Mechanical, 2=0-3-8 brz 2=148(LC 8) Jift 8=-277(LC 5), 2=-253(LC 4) rav 8=1331(LC 1), 2=1437(LC 1) Comp./Max. Ten All forces 250 (lb) or 3126/457, 3-4=-1984/301, 4-5=-2983/46 -481/2853, 12-13=-481/2853, 5-10=-25 0/382, 3-12=-1179/300, 4-12=-371/139 -940/220, 6-8=-3768/556	62, 5-6=-3044/418 4/123, 9-10=-588/3704, 8-				
<ol> <li>Wind: ASCE 7-16; Vu MWFRS (envelope) g grip DOL=1.60</li> <li>Provide adequate dra 4) This truss has been will fit between the bo 6) Refer to girder(s) for 7) Provide mechanical of 8=277, 2=253.</li> <li>This truss is designed referenced standard</li> <li>Graphical purlin repres (0) Hanger(s) or other 28-9-12 on top chor is the responsibility</li> </ol>	esentation does not depict the size or th connection device(s) shall be provided a rd, and 32 lb down and 49 lb up at 28-9	pp; TCDL=6.0psf; BCDL= exposed ; end vertical left e load nonconcurrent with he bottom chord in all area or plate capable of withstar onal Residential Code sect he orientation of the purlin a sufficient to support concer plate on bottom chord. The	and right exposed; Lur any other live loads. as where a rectangle 3- nding 100 lb uplift at join ions R502.11.1 and R8 along the top and/or bo ntrated load(s) 70 lb do design/selection of sur	nber DOL=1.60 plate 6-0 tall by 2-0-0 wide nt(s) except (jt=lb) 102.10.2 and ttom chord. wn and 141 lb up at	Batt PE-20	NIER MEDER 01018807
LOAD CASE(S) Stand		מופ מעשש מופ חטופע מש חטו	α (1 ) ΟΙ DOCK (D).		A	Pril 10,2020

# Continued on page 2

6-2-4

3-7-11

0-9-0

5x7 =

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13

2x4 ||

MiTek<sup>®</sup>

16023 Swingley Ridge Rd Chesterfield, MO 63017

14

15

3x10 =

2-1-1

3-7-11

1-6-10

9

2x4 ||

-	Job	Truss	Truss Type	Qty	Ply	Lot 85 RR
						140944131
ŀ	400223	E9	ROOF SPECIAL	1	1	
						Job Reference (optional)
	Wheeler Lumber, Wave	rly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:37:27 2020 Page 2

ID:GTYmqTGpwjbwEikz5tITZ8zVUQ7-RZT7?FJ4ZJqnrPxCWeD544u6WQdW1AxjwOyj0WzS8h6

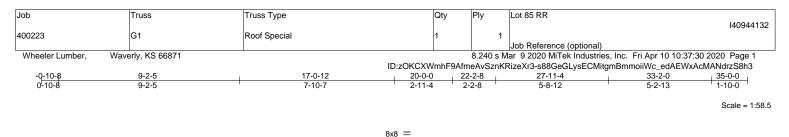
# LOAD CASE(S) Standard

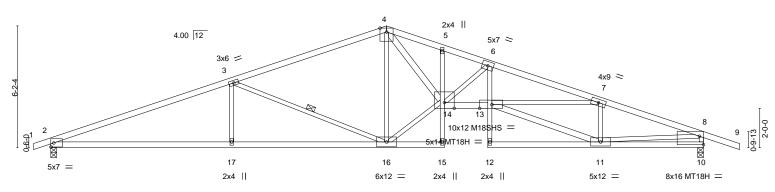
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-70, 4-6=-70, 6-7=-70, 2-11=-20, 8-10=-20 Concentrated Loads (Ib)

Vert: 14=32(B) 15=4(B)







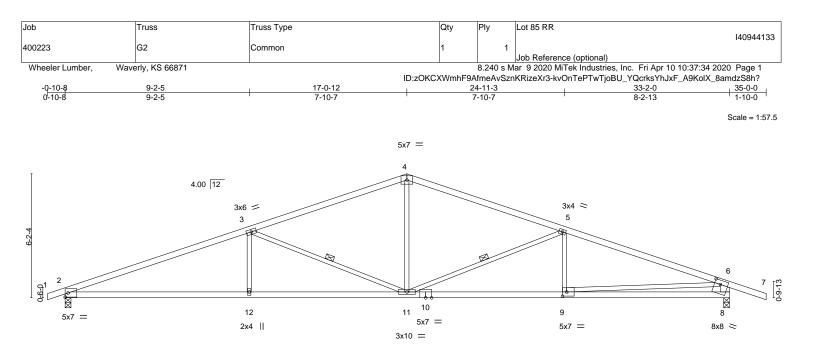
		17.0.10			07.44.4				
	9-2-5	<u>17-0-12</u> 7-10-7	20-0-0	22-2-8	27-11-4 5-8-12	33-2-0			
Plate Offsets (X,Y)	[10:0-1-4,0-0-0], [10:Edge,0-5-2], [13:0-		2-11-4	2-2-0	5-0-12	J-Z-13			
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP		
TCLL 25.0	Plate Grip DOL 1.15	TC 0.99	Vert(LL)	-0.41 13-14	>966 360	MT20	197/144		
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT)	-0.74 13-14	>537 240	MT18H	197/144		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.86	Horz(CT)	0.31 10	n/a n/a	M18SHS	197/144		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.27 13-14	>999 240	Weight: 129 lb	FT = 10%		
LUMBER- TOP CHORD     2x4 SPF 2100F 1.8E     BRACING- TOP CHORD       BOT CHORD     2x4 SPF 2100F 1.8E *Except* 5-15,6-12: 2x3 SPF No.2, 10-12: 2x4 SPF No.2     TOP CHORD BOT CHORD     Structural wood sheathing directly applied, except end verticals. BOT CHORD       WEBS     2x3 SPF No.2 *Except* 4-14,11-13: 2x4 SPF No.2     WEBS     1 Row at midpt     3-16       REACTIONS.     (size)     2=0-3-8, 10=0-3-8 More Hore, 2, 09(L C 8)     Structural wood sheathing directly applied, except end verticals. BOT CHORD     Not Hore, 2, 09(L C 8)									
Max H Max L	e) 2=0-3-8, 10=0-3-8 Horz 2=98(LC 8) Jplift 2=-263(LC 4), 10=-298(LC 5) Grav 2=1550(LC 1), 10=1620(LC 1)								
FORCES. (Ib) - Max	. Comp./Max. Ten All forces 250 (lb) or	less except when shown.							
	-3459/486, 3-4=-2305/327, 4-5=-4124/5	18, 5-6=-4178/491, 6-7=-5	655/661,						
	:-3066/411, 8-10=-1554/319 '=-444/3166, 16-17=-444/3166, 13-14=-4	70/5000 0 40 404/4070	40.44 40/270						
	=-444/3166, 16-17=-444/3166, 13-14=-4 =0/384, 3-16=-1194/305, 4-16=-887/94,								
	=-1831/277, 11-13=-339/2964, 7-13=-21	,	,						
0-14	- 1001/217, 11 10-000/2004, 7-10-21	0/2707, / 11=1200/200, 0	5 11 - 514/2435						
2) Wind: ASCE 7-16; MWFRS (envelope) grip DOL=1.60	e loads have been considered for this de Vult=115mph (3-second gust) Vasd=91m ) gable end zone; cantilever left and right	ph; TCDL=6.0psf; BCDL=							
	plates unless otherwise indicated.						alle		
	a designed for a 10.0 psf bottom chord liv					S OF	MIG		
<ol><li>This truss has bee</li></ol>	en designed for a live load of 20.0psf on t	he bottom chord in all area	as where a rectar	ngle 3-6-0 tall by	2-0-0 wide	8 SE	Juss Som		

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=263, 10=298.7) 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.







F	9-2-5 9-2-5	<u>17-0-12</u> 7-10-7		4-11-3 7-10-7	<u> </u>				
Plate Offsets (X	(,Y) [8:0-3-8,0-2-8], [8:0-2-10,0-0-14], [9:0-2	-8,0-2-8]							
LOADING         (psf           TCLL         25.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	<b>CSI.</b> TC 0.86 BC 0.77 WB 0.81 Matrix-S	DEFL.         ir           Vert(LL)         -0.20           Vert(CT)         -0.46           Horz(CT)         0.11           Wind(LL)         0.16	2-12 >999 360 2-12 >861 240 8 n/a n/a	PLATES         GRIP           MT20         197/144           Weight:         111 lb         FT = 10%				
BOT CHORD WEBS	2x4 SPF 2400F 2.0E 2x4 SPF 2100F 1.8E *Except* 8-10: 2x4 SPF No.2 2x3 SPF No.2 *Except* 6-8: 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 3-11, 5-11					
REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=97(LC 12) Max Uplift 2=-262(LC 4), 8=-302(LC 5) Max Grav 2=1544(LC 1), 8=1623(LC 1)									
FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-3433/485, 3-4=-2299/323, 4-5=-2292/335, 5-6=-3071/417, 6-8=-1538/344         BOT CHORD       2-12=-442/3141, 11-12=-442/3141, 9-11=-300/2824, 8-9=-132/748         WEBS       3-12=0/372, 3-11=-1187/309, 4-11=-49/900, 5-11=-881/250, 6-9=-218/2082									

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

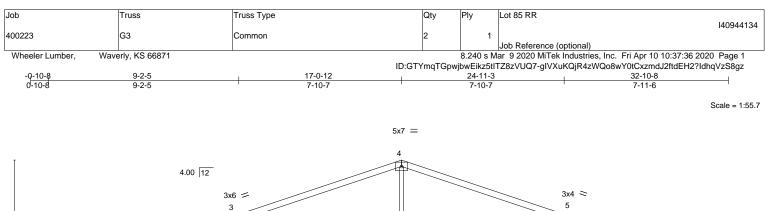
4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

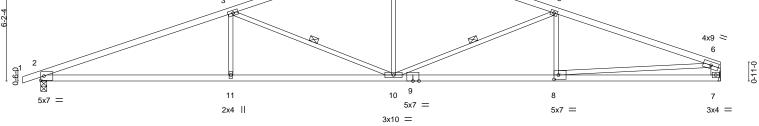
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=262, 8=302.

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.









	9-2-5 9-2-5	<u> </u>		24-11-3 7-10-7		<u>32-10-8</u> 7-11-6	I
Plate Offsets (X,Y)	[8:0-2-8,0-2-8]	1					
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 1.00 BC 0.75 WB 0.81 Matrix-S	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) I/defl -0.21 2-11 >999 -0.47 2-11 >829 0.11 7 n/a 0.12 2-11 >999	L/d 360 240 n/a 240	<b>PLATES</b> MT20 Weight: 108 lb	<b>GRIP</b> 197/144 FT = 10%
BOT CHORD 2x4 SF 7-9: 2x WEBS 2x3 SF	PF 2100F 1.8E PF 2100F 1.8E *Except* 44 SPF No.2 PF No.2 *Except* 46 SPF No.2		BRACING- TOP CHOF BOT CHOF WEBS		ectly applied o	ectly applied, except of r 10-0-0 oc bracing. -10, 5-10	end verticals.
Max H Max U	e) 2=0-3-8, 7=Mechanical lorz 2=65(LC 8) lplift 2=-72(LC 4), 7=-36(LC 5) trav 2=1535(LC 1), 7=1461(LC 1)						
TOP CHORD 2-3= BOT CHORD 2-11	Comp./Max. Ten All forces 250 (lb) o -3409/96, 3-4=-2272/75, 4-5=-2267/80, 74/3119, 10-11=-74/3119, 8-10=-41/2 =0/373, 3-10=-1189/122, 4-10=0/891, 5	5-6=-3001/84, 6-7=-1378/7 771, 7-8=-27/505	7				
2) Wind: ASCE 7-16; \ MWFRS (envelope)	e loads have been considered for this d /ult=115mph (3-second gust) Vasd=91r ; cantilever left and right exposed ; end designed for a 10.0 psf bottom chord li	nph; TCDL=6.0psf; BCDL= vertical left and right expos	ed; Lumber DOL	=1.60 plate grip DOL=1	.60		

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.

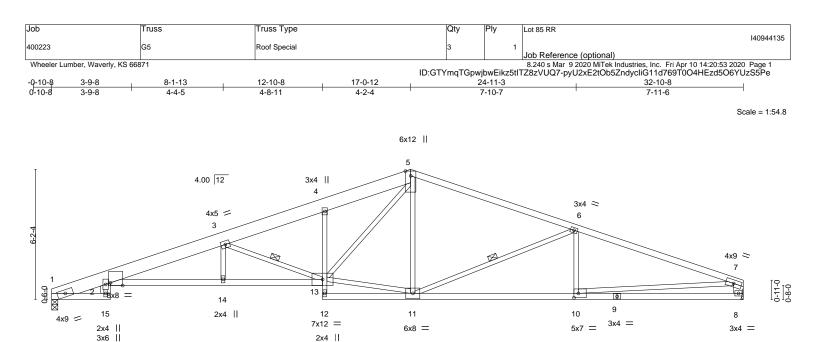
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.

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.



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2-9-8 3-9 2-9-8 1-0 Plate Offsets (X,Y)				24-11-3 7-10-7		32-10-8 7-11-6	
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 0.88 BC 0.80 WB 0.78 Matrix-S	DEFL. ir Vert(LL) -0.39 Vert(CT) -0.70 Horz(CT) 0.31 Wind(LL) 0.21	2-14 >554 8 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 150 lb	<b>GRIP</b> 197/144 FT = 10%
5-7: 2x           BOT CHORD         2x4 SF           2-13: 2           WEBS         2x3 SF	P DSS *Except* 4 SPF 2100F 1.8E PF No.2 *Except* x4 SPF 2100F 1.8E, 4-12: 2x3 SPF No. PF No.2 *Except* -8: 2x6 SPF No.2	2	BRACING- TOP CHORD BOT CHORD WEBS	end verticals.	ectly applied o	ectly applied or 2-2-0 c r 10-0-0 oc bracing. 13, 6-11	c purlins, except
Max H Max U	e) 1=0-3-8, 8=Mechanical lorz 1=62(LC 8)  plift 1=-41(LC 4), 8=-36(LC 5)  rav 1=1463(LC 1), 8=1463(LC 1)						
TOP CHORD 1-2=	Comp./Max. Ten All forces 250 (lb) or -501/30, 2-3=-4574/127, 3-4=-3282/98, 4 -1380/77		2, 6-7=-3003/83,				
BOT CHORD 2-14	113/4475, 13-14=-111/4471, 10-11=-4 1575/95, 11-13=0/1938, 5-13=-87/146						
<ol> <li>Wind: ASCE 7-16; WMWFRS (envelope)</li> <li>This truss has been</li> <li>* This truss has been</li> </ol>	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m ; cantilever left and right exposed ; end v designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t pottom chord and any other members.	ph; TCDL=6.0psf; BCDL=6. ertical left and right expose e load nonconcurrent with a	d; Lumber DOL=1.60 p ny other live loads.	late grip DOL=1.		6500F	

5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.

6) Refer to girder(s) for truss to truss connections.

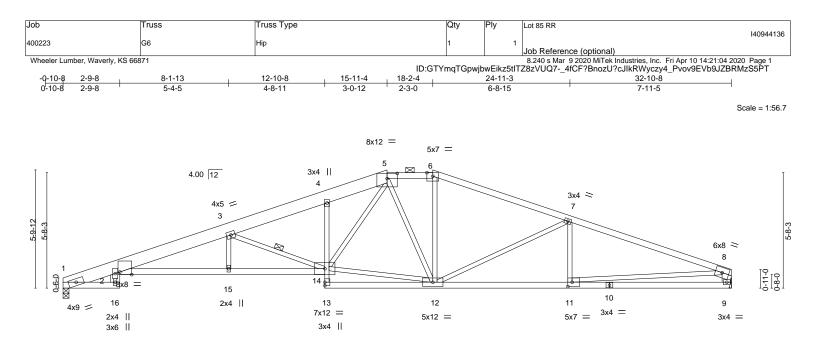
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 1 and 36 lb uplift at joint 8.

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





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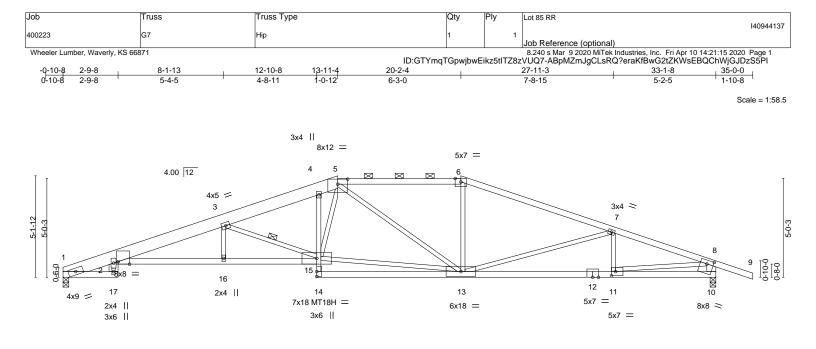


	2-9-8	8-1-13 5-4-5	12-10-8 4-8-11		-2-4		24-11-3 6-8-15			<u>32-10-8</u> 7-11-5	
Plate Offsets		5-4-5 2:0-6-15,Edge], [5:0-6-0,0			3-12		0-0-10			7-11-5	
TCDL 10 BCLL 0	sf) 5.0 0.0 0.0 * 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI:	2-0-0 1.15 1.15 YES 2014	CSI. TC 0.88 BC 0.74 WB 0.94 Matrix-S	DEFL. Vert(LL Vert(C Horz(C Wind(L	T) -0.70 T) 0.31	`15 2-15 9	l/defl >999 >553 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 151 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER- TOP CHORD BOT CHORD WEBS	5-6: 2x4 2x4 SPF 2-14: 2x 2x3 SPF	DSS *Except* SPF No.2, 6-8: 2x4 SPF 7 No.2 *Except* 4 SPF 2100F 1.8E, 4-13: 7 No.2 *Except* 9: 2x6 SPF No.2			BRACI TOP CI BOT CI WEBS	HORD	end ver	ticals, an eiling dire	d 2-0-0 oc	directly applied or 2-2-0 d purlins (3-9-12 max.): 5- d or 10-0-0 oc bracing. 3-14	
REACTIONS.	Max Ho Max Up	) 1=0-3-8, 9=Mechanica rz 1=58(LC 8) lift 1=-45(LC 4), 9=-41(LC av 1=1463(LC 1), 9=1463	5)								
FORCES. (II TOP CHORD BOT CHORD WEBS	1-2=-5 6-7=-2 2-15=- 3-14=-	Comp./Max. Ten All force 01/25, 2-3=-4573/143, 3 2387/86, 7-8=-2985/94, 8-5 -126/4474, 14-15=-124/44 -1571/98, 12-14=-4/2091, - -19/2236	4=-3282/112, 4-5≕ 9=-1378/83 70, 11-12=-50/275	-3188/144, 5-6=-21 4, 10-11=-30/527,	183/98, 9-10=-30/527	5/97,					
<ol> <li>Wind: ASC MWFRS (e</li> <li>Provide add</li> <li>This truss f</li> <li>This truss f</li> <li>This truss will fit betw.</li> <li>All bearings</li> <li>Refer to gir</li> <li>Provide me joint 9.</li> <li>This truss i standard Al</li> </ol>	E 7-16; Vu envelope); lequate dra has been d s has been d s has been reen the bo s are assuu rder(s) for t echanical c is designed NSI/TPI 1.	loads have been consider It=115mph (3-second gus cantilever left and right exp inage to prevent water po lesigned for a 10.0 psf bot designed for a live load o vitom chord and any other med to be SPF No.2 crush truss to truss connections. connection (by others) of tr d in accordance with the 20 resentation does not depic	t) Vasd=91mph; T posed ; end vertica nding. tom chord live load f 20.0psf on the bo members. hing capacity of 42 uss to bearing plat 018 International F	al left and right exp d nonconcurrent wi ottom chord in all al 5 psi. te capable of withs Residential Code so	oosed; Lumber D ith any other live reas where a rea standing 45 lb up ections R502.11	OL=1.60 p loads. stangle 3-6 lift at joint <sup>2</sup> 1 and R80	late grip I -0 tall by 1 and 41 2.10.2 ar	DOL=1.6 2-0-0 wic Ib uplift a nd referer	le t	SCOT SCOT SEV DE OF SCOT SEV DE OF SCOT SEV DE OF	IER iSerter BER

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07 44 0

2-9-8	8-1-13 12-10-		0-2-4	27-11-3	33-1-8
2-9-8	5-4-5 4-8-1		-3-12	7-8-15	5-2-5
Plate Offsets (X,Y)	[2:0-6-15,Edge], [5:0-6-0,0-3-1], [10:0-4	-0,0-2-4], [10:0-2-10,0-0-1	14], [11:0-2-8,0-2-8]		
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.89 BC 0.84 WB 0.99 Matrix-S	Vert(LL) -0.40		PLATES         GRIP           MT20         197/144           MT18H         197/144           Weight:         149 lb         FT = 10%
BOT CHORD         2x4 SP           2-15: 2           WEBS         2x3 SP	DSS *Except* 4 SPF No.2, 6-9: 2x4 SPF 2100F 1.8E PF No.2 *Except* x4 SPF 2100F 1.8E, 4-14: 2x3 SPF No PF No.2 *Except* 10: 2x6 SPF No.2	2	BRACING- TOP CHORD BOT CHORD WEBS	end verticals, and 2-0-0 oc pu Rigid ceiling directly applied o	
Max H Max U	e) 1=0-3-8, 10=0-3-8 orz 1=-75(LC 9) plift 1=-238(LC 4), 10=-325(LC 5) rav 1=1469(LC 1), 10=1626(LC 1)				
TOP CHORD         1-2=- 6-7=-           BOT CHORD         2-16= 10-11           WEBS         3-15=	Comp./Max. Ten All forces 250 (lb) o 504/124, 2-3=-4603/736, 3-4=-3288/53 2651/409, 7-8=-3008/464, 8-10=-1562/ 701/4503, 15-16=-699/4499, 13-14=-2 I=-6/271 1600/325, 13-15=-345/2443, 5-15=-12 455/210, 8-11=-434/2550	9, 4-5=-3099/544, 5-6=-24 342 6/377, 12-13=-374/2803,	138/424, 11-12=-374/2803,		
<ol> <li>Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60</li> <li>Provide adequate dr 4) All plates are MT20 (</li> <li>This truss has been will fit between the b</li> <li>All bearings are asso</li> <li>Provide mechanical joint 10.</li> </ol>	e loads have been considered for this de fult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ rainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord lin n designed	aph; TCDL=6.0psf; BCDL= e exposed ; end vertical lef re load nonconcurrent with the bottom chord in all are of 425 psi. Ig plate capable of withsta	ft and right exposed; Lurr n any other live loads. eas where a rectangle 3-6 anding 238 lb uplift at join	ber DOL=1.60 plate 6-0 tall by 2-0-0 wide t 1 and 325 lb uplift at	STATE OF MISSOL

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

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

200

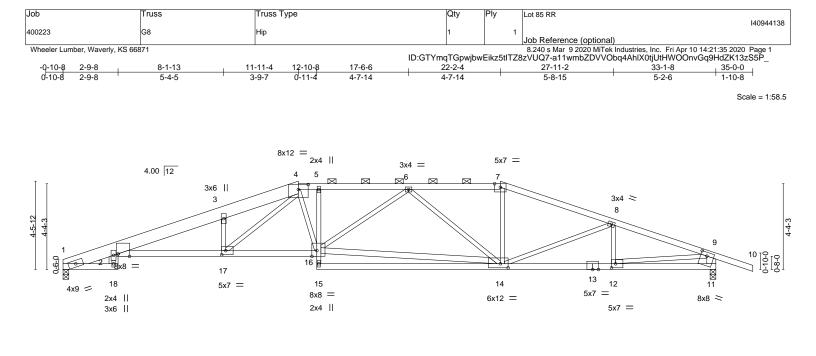
0 4 4 9

10 10 0



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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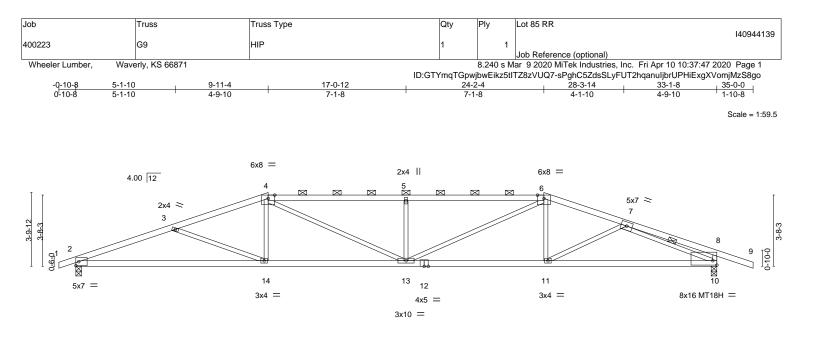


2-9-8	8-1-13	12-10-8		22-2-4	1	27	-11-2	33-1-8	1
2-9-8	5-4-5	4-8-11		9-3-12	1		8-15	5-2-6	
Plate Offsets (X,Y)	[2:0-6-15,Edge], [4:0-6-0,	0-3-1], [11:0-3-12,0	0-2-4], [11:0-2-10,0-0-′	14], [12:0-2-8,0-2-8], [	14:0-4-12	2,0-2-8], [16	5:0-3-0,Edge],	[17:0-2-8,0-2-8]	
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	<b>CSI.</b> TC 0.89 BC 0.70 WB 0.83	Horz(CT) 0.	33 14-15 31 11	7 >975 5 >473 1 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL 10.0	Code IRC2018/TF	912014	Matrix-S	Wind(LL) 0.	32 17	7 >999	240	Weight: 149 lb	FT = 10%
1-4: 2x BOT CHORD 2x4 SF 2-16,1 WEBS 2x3 SF	PF No.2 *Except* (8 SP DSS PF No.2 *Except* 3-15: 2x4 SPF 2100F 1.8E PF No.2 *Except* -11: 2x6 SPF No.2, 14-16:			BRACING- TOP CHORD BOT CHORD	end v	verticals, an	id 2-0-0 oc pu	ectly applied or 2-2-0 o Irlins (2-11-5 max.): 4-7 r 9-2-13 oc bracing.	
Max H Max L	re) 1=0-3-8, 11=0-3-8 Horz 1=-64(LC 9) Jplift 1=-249(LC 4), 11=-33 Grav 1=1468(LC 1), 11=16	( )							
TOP CHORD 1-2= 6-7= BOT CHORD 2-17 WEBS 3-17	Comp./Max. Ten All for -503/121, 2-3=-4593/771, -2617/458, 7-8=-2807/455 =-726/4493, 16-17=-483/3 =-1104/310, 4-17=-323/16 =-855/250, 7-14=-25/523,	3-4=-4820/885, 4-5 , 8-9=-2933/481, 9- 278, 13-14=-385/27 22, 4-16=-102/510,	5=-3379/617, 5-6=-335 -11=-1547/361 723, 12-13=-385/2723	, 11-12=-15/323					
<ol> <li>2) Wind: ASCE 7-16; MWFRS (envelope) grip DOL=1.60</li> <li>3) Provide adequate d</li> <li>4) This truss has been</li> <li>5) * This truss has been</li> <li>6) All bearings are ass</li> <li>7) Provide mechanical joint 11.</li> <li>8) This truss is design standard ANSI/TPI</li> </ol>	e loads have been conside /ult=115mph (3-second gu ) gable end zone; cantileve rainage to prevent water p l designed for a 10.0 psf bo en designed for a live load bottom chord and any othe sumed to be SPF No.2 crus I connection (by others) of ed in accordance with the 1. resentation does not depic	Ist) Vasd=91mpř; 1 er left and right expo onding. Dattom chord live loa of 20.0psf on the be or members. Shing capacity of 42 truss to bearing pla 2018 International I	TCDL=6.0psf; BCDL=6 osed ; end vertical left ad nonconcurrent with oottom chord in all area 25 psi. ate capable of withstar Residential Code sect	and right exposed; Lu any other live loads. is where a rectangle of nding 249 lb uplift at jo ions R502.11.1 and R	imber DC -6-0 tall int 1 and 802.10.2	DL=1.60 pla by 2-0-0 wi l 337 lb upli ? and refere	de ft at	SCOT SEVI PE-2001	ER Lerter





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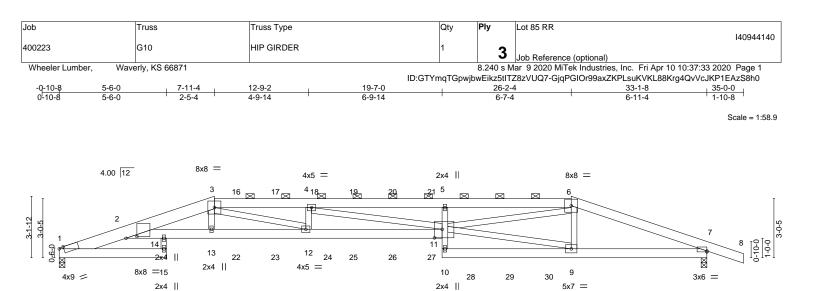


<b> </b>	8-11-4	17-0-12	24-2-4	33-1-8	
Plate Offsets (X,Y)	8-11-4 [8:0-1-4,0-0-7], [10:Edge,0-2-12]	8-1-8	7-1-8	8-11-4	· · · · · · · · · · · · · · · · · · ·
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.66 BC 0.83 WB 0.75 Matrix-S	DEFL.         in         (loc)         l/defl           Vert(LL)         -0.29         13         >999           Vert(CT)         -0.53         11-13         >750           Horz(CT)         0.14         10         n/a           Wind(LL)         0.22         13         >999	L/d <b>PLATES</b> 360 MT20 240 MT18H n/a 240 Weight: 113	<b>GRIP</b> 197/144 197/144 Ib FT = 10%
4-6: 2x4 BOT CHORD 2x4 SP	x4 SPF 2100F 1.8E	·	except end ver	d sheathing directly applied or 2-6- rticals, and 2-0-0 oc purlins (3-4-8 irectly applied or 8-8-9 oc bracing. t 7-10	
Max Ho Max Up	<ul> <li>2=0-3-8, 10=0-3-8</li> <li>2=54(LC 12)</li> <li>plift 2=-302(LC 4), 10=-341(LC 5)</li> <li>rav 2=1548(LC 1), 10=1621(LC 1)</li> </ul>				
TOP CHORD         2-3=-3           7-8=-4         7-8=-4           BOT CHORD         2-14=           WEBS         3-14=	Comp./Max. Ten All forces 250 (lb) or 3511/679, 3-4=-3215/555, 4-5=-3676/67 453/40, 8-10=-468/165 619/3240, 13-14=-446/3001, 11-13=-3 263/234, 4-14=0/385, 4-13=-225/918, -0/260, 7-11=0/330, 7-10=-2555/533	78, 5-6=-3676/678, 6-7=-29 62/2799, 10-11=-436/2690			
<ol> <li>Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60</li> <li>Provide adequate dra 4) All plates are MT20 p</li> <li>This truss has been will fit between the bio 7) Provide mechanical 2=302, 10=341.</li> <li>This truss is designe referenced standard</li> </ol>	loads have been considered for this de ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right ainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members. connection (by others) of truss to bearin d in accordance with the 2018 Internatio ANSI/TPI 1. esentation does not depict the size or th	př; TCDL=6.0psf; BCDL=6 exposed ; end vertical left ; e load nonconcurrent with a he bottom chord in all area: g plate capable of withstan- onal Residential Code sectio	and right exposed; Lumber DOL=1.60 ny other live loads. 5 where a rectangle 3-6-0 tall by 2-0-0 ding 100 lb uplift at joint(s) except (jt=lt ons R502.11.1 and R802.10.2 and	vide b)	OF MISSOL



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 preven 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 **ANSUTPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





10x12 =

5-6-5-6-		12-9-2 5-9-14	19-7		26-2 6-7-			<u>33-1-8</u> 6-11-4	
			0,0-0-10], [11:0-4-12,0-5-		0-1-	-		0-11-4	
LOADING         (psf)           TCLL         25.0           TCDL         10.0           BCLL         0.0 *           BCDL         10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 NO PI2014	<b>CSI.</b> TC 0.85 BC 0.63 WB 0.75 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.54 11-12 -0.98 11-12 0.34 7 0.36 11-12	l/defl >726 >401 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 626 II	<b>GRIP</b> 197/144 b FT = 10%
BOT CHORD 2x6 SF WEBS 2x4 SF REACTIONS. (siz: Max H Max U	2 2400F 2.0E *Except* 8 SP DSS 2 2400F 2.0E PF No.2 e) 1=0-3-8, 7=0-3-8 lorz 1=-33(LC 30) lplift 1=-301(LC 4), 7=-40 jrav 1=3029(LC 1), 7=33			BRACING TOP CHOI BOT CHOI	RD Structu 2-0-0 o	c purlins	(6-0-0 max.)	irectly applied or 6-0-( : 3-6. or 10-0-0 oc bracing.	) oc purlins, except
TOP CHORD         1-2=-           6-7=-         6-7=-           BOT CHORD         2-14-           9-10-         9-10-           WEBS         14-11	-943/133, 2-3=-14184/14 -8547/917 =-1416/13827, 13-14=-14 =-99/1012, 7-9=-794/791 5=0/296, 10-11=-25/545,	94, 3-4=-16777/ 116/13827, 12-13 4 5-11=-459/113,	less except when shown. 1725, 4-5=-17321/1800, 3 3=-1401/13675, 11-12=-1 3-13=-158/1643, 3-12=-3 58, 6-11=-922/9110, 6-9=	5-6=-16759/1749 1666/16777, 326/3468,	,				
Top chords connect Bottom chords conn Webs connected as 2) All loads are consid- ply connections hav 3) Unbalanced roof live 4) Wind: ASCE 7-16; V MWFRS (envelope) 5) Provide adequate di 6) This truss has been 7) * This truss has been will fit between the b 8) Provide mechanical 1=301, 7=403. 9) This truss is designer referenced standard	ected as follows: 2x6 - 2 follows: 2x4 - 1 row at 0- ered equally applied to al e been provided to distrit e loads have been consic /ult=115mph (3-second g ; cantilever left and right rainage to prevent water designed for a 10.0 psf I in designed for a live load bottom chord and any oth connection (by others) o ed in accordance with the I ANSI/TPI 1.	vs staggered at ( rows staggered -9-0 oc. I plies, except if joute only loads n lered for this des just) Vasd=91 mp exposed; end vc ponding. joottom chord live d of 20.0psf on th er members. f truss to bearing e 2018 Internatio	0-9-0 oc, 2x6 - 2 rows sta at 0-9-0 oc. noted as front (F) or back noted as (F) or (B), unless	k (B) face in the L s otherwise indica co.psf; h=25ft; C sed; Lumber DOL n any other live lo as where a recta anding 100 lb uplit ctions R502.11.1 c	OAD CASE(S) ited. at. II; Exp C; En =1.60 plate grip ads. ngle 3-6-0 tall by it at joint(s) exce and R802.10.2 a	closed; ) DOL=1. y 2-0-0 w ept (jt=lb) and	60	PE-20	and a
Continued on page 2								A	April 10,2020

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Job	Truss	Truss Type	Qty	Ply	Lot 85 RR
					140944140
400223	G10	HIP GIRDER	1	3	lab Deference (anti-nal)
				•	Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:37:33 2020 Page 2

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# NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 119 lb down and 41 lb up at 7-11-4, 104 lb down and 41 lb up at 9-0-12, 104 lb down and 41 lb up at 11-0-12, 104 lb down and 41 lb up at 15-0-12, and 104 lb down and 41 lb up at 11-0-12, 104 lb down and 41 lb up at 15-0-12, and 104 lb down and 41 lb up at 19-0-12 on top chord, and 464 lb down and 107 lb up at 7-11-4, 99 lb down and 22 lb up at 8-0-0, 99 lb down and 22 lb up at 9-0-12, 99 lb down and 22 lb up at 11-0-12, 90 lb down and 22 lb up at 11-0-12, 90 lb down and 22 lb up at 11-0-12, 90 lb down and 22 lb up at 11-0-12, 90 lb down and 22 lb up at 11-0-12, 90 lb down and 22 lb up at 11-0-12, 90 lb down and 22 lb up at 12-0-12, 90 lb down and 22 lb up at 21-0-12, 90 lb down and 22 lb up at 21-0-12, 90 lb down and 20 lb up at 20-0-12, 90 lb down and 20 lb up at 20-0-12, 90 lb down and 30 lb up at 20-0-12, 90 lb down and 30 lb up at 20-0-12, 90 lb down and 30 lb up at 20-0-12, 90 lb down and 106 lb up at 20-0-12, 90 lb down and 107 lb down and 106 lb up at 20-0-12, 90 lb down and 90 lb up at 20-0-12, 90 lb down and 106 lb up at 20-0-12, 90 lb down and 90 lb up at 20-0-12, 90 lb down and 107 lb down and 106 lb up at 20-0-12, 90 lb down and 90 lb up at 20-0-12, 90 lb

# LOAD CASE(S) Standard

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

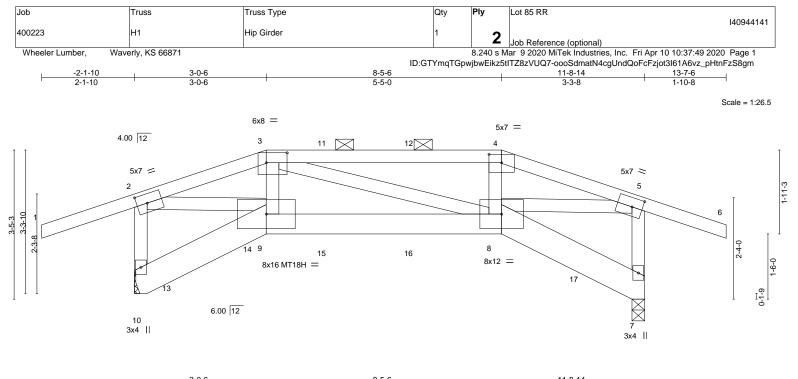
Uniform Loads (plf) Vert: 1-3=-70, 3-6=-70, 6-8=-70, 1-15=-20, 11-14=-20, 7-10=-20

Concentrated Loads (lb)

Vert: 3=-95(B) 13=-563(B=-464) 9=-701(B) 16=-95(B) 17=-95(B) 18=-95(B) 19=-95(B) 20=-95(B) 21=-95(B) 22=-99 23=-99 24=-99 25=-99 26=-99 27=-99 28=-262(B) 30=-262(B) 30=-262(B)

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		<u>3-0-6</u> 3-0-6				<u>8-5-6</u> 5-5-0				<u>11-8-14</u> 3-3-8		
Plate Offsets (X,Y) [2:0-2-14,0-2-8], [3:0-5-12,0-2-12], [4:0-3-8,0-2-5], [5:0-2-14,0-2-8]												
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	0.87	Vert(LL)	-0.13	8-9	>999	360	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.23	8-9	>590	240	MT18H	197/144
BCLL 0.0	*	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.13	7	n/a	n/a		
BCDL 10.0		Code IRC2018/TF	PI2014	Matri	k-S	Wind(LL)	0.10	8-9	>999	240	Weight: 146 lb	FT = 10%
I UMBER-						BRACING-						

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-4-13 oc purlins, BOT CHORD 2x8 SP DSS \*Except\* except end verticals, and 2-0-0 oc purlins (3-8-11 max.): 3-4. 8-9: 2x6 SP 2400F 2.0E BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x4 SPF No.2

REACTIONS. (size) 10=Mechanical, 7=0-3-8 Max Horz 10=53(LC 7) Max Uplift 10=-900(LC 4), 7=-935(LC 5) Max Grav 10=5102(LC 21), 7=4362(LC 22)

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

2-10=-3823/802, 2-3=-7217/1410, 3-4=-7014/1335, 4-5=-7241/1372, 5-7=-3602/765 TOP CHORD

- BOT CHORD 9-10=-523/716, 8-9=-1307/6849, 7-8=-246/325
- WEBS 2-9=-1303/6888, 3-9=-240/1993, 4-8=-242/2068, 5-8=-1269/6832

## NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc, 2x6 - 2 rows staggered at 0-8-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=900, 7=935.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

#### Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Lot 85 RR
					140944141
400223	H1	Hip Girder	1	2	lab Deference (anti-nal)
				_	Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:37:49 2020 Page 2

NOTES-

 $ID:GTYmqTGpwjbwEikz5tITZ8zVUQ7-oooSdmatN4cgUndQoFcFzjot3I61A6vz_pHtnFzS8gm$ 

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 174 lb down and 189 lb up at 3-0-6, 73 lb down and 55 lb up at 4-4-14, and 73 lb down and 55 lb up at 6-4-14, and 174 lb down and 189 lb up at 8-5-6 on top chord, and 1343 lb down and 68 lb up at 0-6-6, 1400 lb down and 247 lb up at 2-4-14, 89 lb down and 76 lb up at 3-0-6, 1390 lb down and 234 lb up at 4-4-14, 31 lb down and 24 lb up at 4-4-14, 1345 lb down and 59 lb up at 6-4-14, 31 lb down and 24 lb up at 4-4-14, 1345 lb down and 59 lb up at 6-4-14, 31 lb down and 24 lb up at 6-4-14, 89 lb down and 76 lb up at 8-3-10, and 1345 lb down and 220 lb up at 8-3-10, and 1311 lb down and 297 lb up at 10-4-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

# LOAD CASE(S) Standard

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

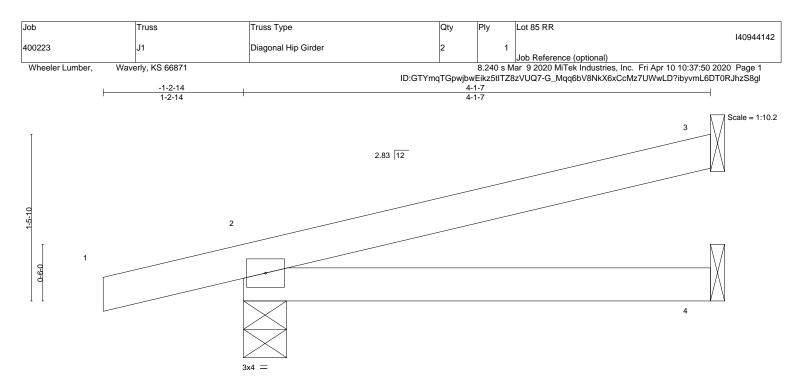
Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 9-10=-20, 8-9=-20, 7-8=-20 Concentrated Loads (lb)

Vert: 3=28(F) 9=-14(F) 8=-1359(F=-14, B=-1345) 11=-0(F) 12=-0(F) 13=-1343(B) 14=-1400(B) 15=-1398(F=-8, B=-1390) 16=-1353(F=-8, B=-1345) 17=-1311(B)

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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





	<u>4-1-7</u> <u>4-1-7</u>						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.15	5 TC 0.15	Vert(LL) -0.	01 2-4	>999 360	MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	5 BC 0.12	Vert(CT) -0.	02 2-4	>999 240		
BCLL 0.0 *	Rep Stress Incr NC	WB 0.00	Horz(CT) -0.	00 3	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.	00 2	**** 240	Weight: 11 lb FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

# LUMBER-

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

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical

Max Horz 2=55(LC 6)

Max Uplift 3=-53(LC 6), 2=-99(LC 6) Max Grav 3=76(LC 1), 2=147(LC 1), 4=65(LC 3)

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) 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 10 lb up at -1-2-14, and 29 lb down and 10 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

Concentrated Loads (lb) Vert: 1=-46(F=-23, B=-23)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-25(F=23, B=23), 2=-3(F=33, B=33)-to-3=-72(F=-1, B=-1), 2=-0(F=10, B=10)-to-4=-21(F=-0, B=-0)

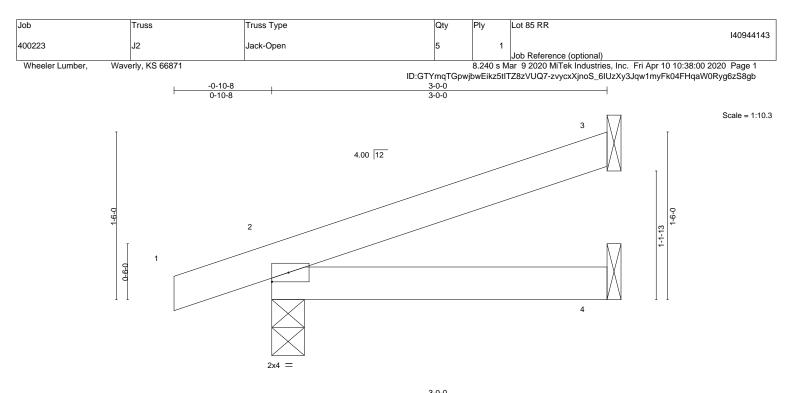


Structural wood sheathing directly applied or 4-1-7 oc purlins.

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



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			3-0-0 3-0-0	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.10 BC 0.07	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.00         2-4         >999         360           Vert(CT)         -0.01         2-4         >999         240	<b>PLATES GRIP</b> MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 2 **** 240	Weight: 8 lb FT = 10%

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=53(LC 4)

Max Uplift 3=-46(LC 8), 2=-65(LC 4) Max Grav 3=85(LC 1), 2=210(LC 1), 4=56(LC 3)

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) 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.



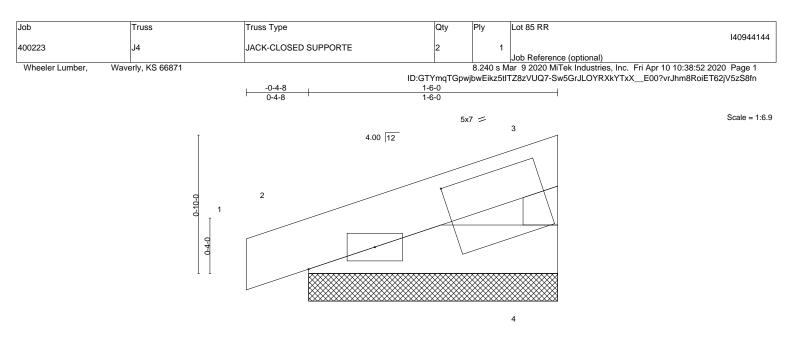
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#### BRACING-TOP CHORD

BOT CHORD

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



2x4 =

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Plate Offsets (X V)... [3:0-1-5 0-0-0] [3:0-10-14 0-2-8] [4:0-1-3 0-0-6]

			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	0.03	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TI	PI2014	Matrix	x-P						Weight: 4 lb	FT = 10%
LUMBER-					BRACING-						
TOP CHORD 2x4 SP	F No.2				TOP CHOP	RD	Structu	ral wood	sheathing c	lirectly applied or 1-6-	0 oc purlins,
BOT CHORD 2x4 SP	F No.2						except	end verti	cals.		

BOT CHORD

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

REACTIONS. (size) 4=1-6-0, 2=1-6-0 Max Horz 2=24(LC 5)

Max Uplift 4=-12(LC 8), 2=-28(LC 4)

Max Grav 4=59(LC 1), 2=93(LC 1)

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

## NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) Gable requires continuous bottom chord bearing.

4) Gable studs spaced at 2-0-0 oc.

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

6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.

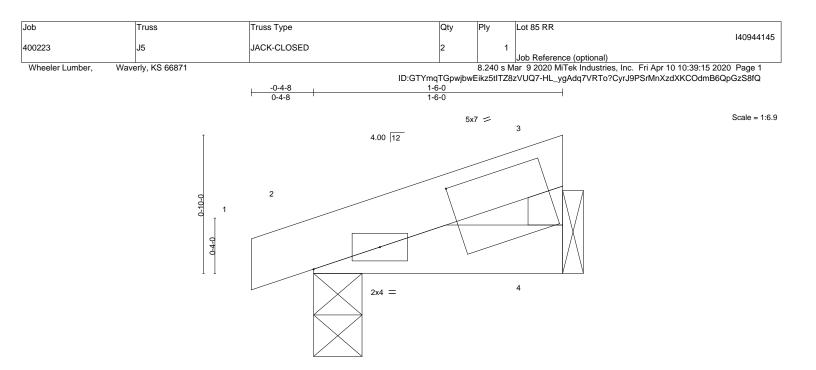
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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





				$\vdash$		<u>1-6-0</u> 1-6-0						
Plate Offse	ets (X,Y)	[3:0-1-5,0-0-0], [3:0-10-14	,0-2-8], [4:0-1·	-3,0-0-6]		100						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.02	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 4 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8 Max Horz 2=24(LC 5)

Max Uplift 4=-12(LC 8), 2=-30(LC 4) Max Grav 4=57(LC 1), 2=94(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) 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.
- 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.



Structural wood sheathing directly applied or 1-6-0 oc purlins,

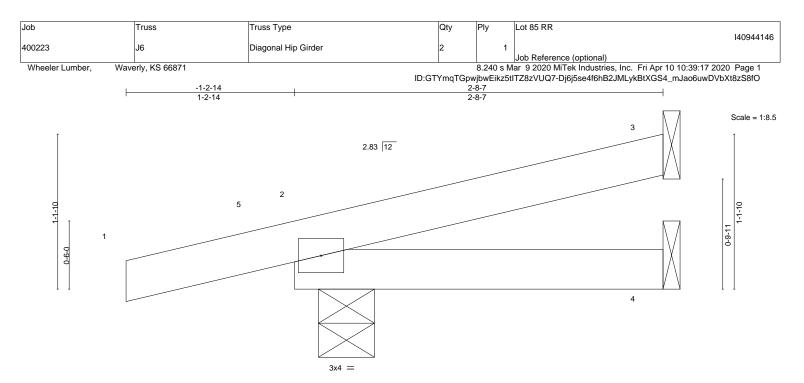
Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

April 10,2020

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		<mark>0-2-1</mark>  -2-1	<u>2-8-7</u> 2-6-6	I
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 NO Code IRC2018/TPI2014	CSI. TC 0.22 BC 0.04 WB 0.00 Matrix-P	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.00         2-4         >999         360           Vert(CT)         -0.00         2-4         >999         240           Horz(CT)         -0.00         3         n/a         n/a           Wind(LL)         0.00         2         ****         240	PLATES         GRIP           MT20         197/144           Weight: 8 lb         FT = 10%

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

\_\_\_\_\_

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-8-7 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-4-15, 4=Mechanical

Max Horz 2=45(LC 6) Max Uplift 3=-38(LC 6), 2=-112(LC 6)

Max Grav 3=23(LC 1), 2=92(LC 1), 4=37(LC 3)

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) 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 except (jt=lb) 2=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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 6 lb up at -1-2-14, and 18 lb down and 6 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

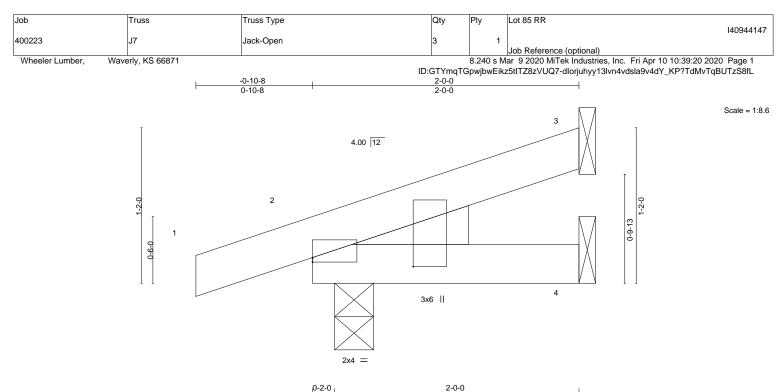
#### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Concentrated Loads (lb) Vert: 1=-29(F=-14, B=-14)
- Trapezoidal Loads (plf)
  - Vert: 1=0(F=35, B=35)-to-5=-19(F=25, B=25), 5=0(F=35, B=35)-to-3=-49(F=10, B=10), 2=-2(F=9, B=9)-to-4=-14(F=3, B=3)





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		0-2-0	1-10-0		
Plate Offsets (X,Y	[2:0-0-0,0-0-6], [2:0-0-13,0-9-1]				
LOADING (psf)	<b>SPACING-</b> 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 2	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 2-4	>999 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00 2	**** 240	Weight: 7 lb FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE Left: 2x4 SPF No.2 BRACING-TOP CHORD BOT CHORD

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

#### LOIL ZATOTT

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8

Max Horz 2=40(LC 4) Max Uplift 3=-31(LC 8), 2=-56(LC 4) Max Grav 3=54(LC 1), 4=39(LC 3), 2=166(LC 1)

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

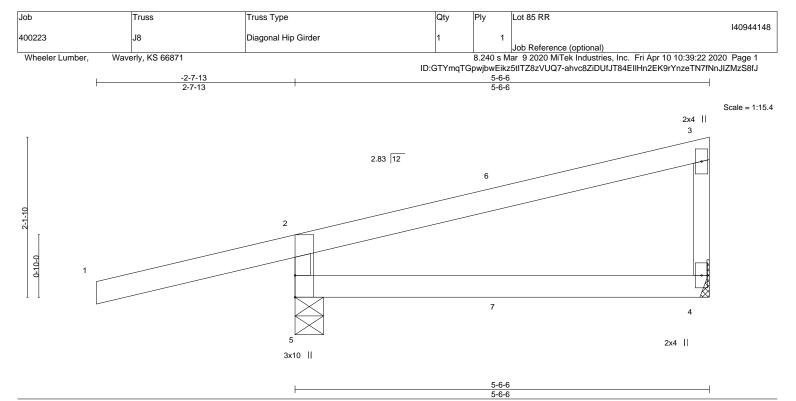
#### NOTES-

- 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) 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.



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.OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL)	-0.03 4-5	>999	360	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT)	-0.06 4-5	>999	240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	0.00 4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	-0.01 4-5	>999	240	Weight: 17 lb FT = 10%

TOP CHORD

BOT CHORD

#### LUMBER-

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

REACTIONS. (size) 5=0-4-9, 4=Mechanical Max Horz 5=88(LC 7)

Max Uplift 5=-186(LC 4), 4=-34(LC 8)

Max Grav 5=475(LC 1), 4=182(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-427/216

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) 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.

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 except (jt=lb) 5 = 186

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) 74 lb down and 15 lb up at 2-9-8, and 74 lb down and 15 lb up at 2-9-8 on top chord, and 6 lb down and 7 lb up at 2-9-8, and 6 lb down and 7 lb up at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 7=15(F=7, B=7)



Structural wood sheathing directly applied or 5-6-6 oc purlins,

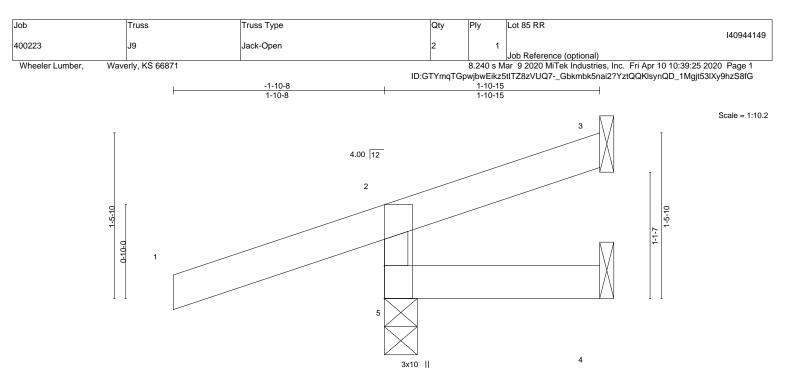
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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.



								1-10-1 1-10-1	-		—	
Plate Off	sets (X,Y) [2	2:0-0-7,0-1-4], [5:0-0-0,0	)-1-4]	1								
	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	5	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	k-R	Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%

LUMBER-
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TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=51(LC 4)

Max Uplift 5=-130(LC 4), 3=-12(LC 8)

Max Grav 5=296(LC 1), 3=4(LC 4), 4=30(LC 3)

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

TOP CHORD 2-5=-263/140

# 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) 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.

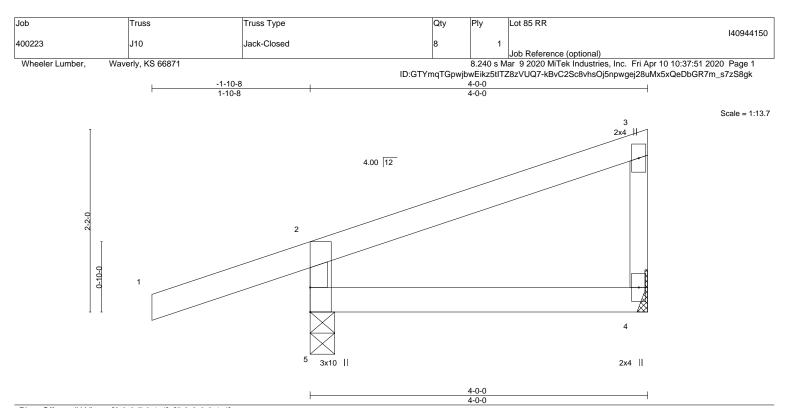
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5 = 130
- 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.



🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE ARXING - Verify design parameters and READ NOTES ON THIS AND INCLODED INTER REPERENCE PAGE MIL-14's rev. Invozen's Derrore USE. Design valid for use only with MITER® 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 Cuality 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)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -(	0.01 4-5	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -(	0.02 4-5	>999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -(	0.00 4	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) (	0.00 4-5	>999 240	Weight: 13 lb FT = 10%

TOP CHORD

BOT CHORD

#### LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2

REACTIONS. (size) 5=0-3-8, 4=Mechanical

Max Horz 5=92(LC 5) Max Uplift 5=-129(LC 4), 4=-28(LC 8)

Max Grav 5=345(LC 1), 4=134(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-306/153

- - -

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) 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 except (jt=lb) 5=129.

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.



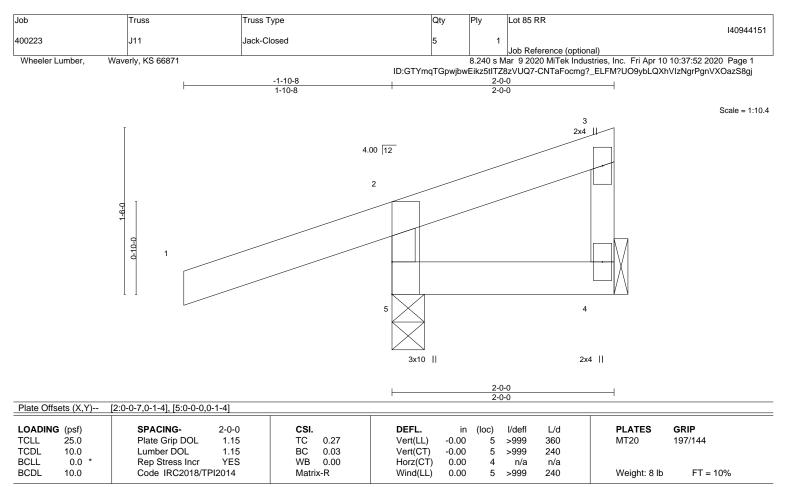
Structural wood sheathing directly applied or 4-0-0 oc purlins,

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 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.





BRACING-

TOP CHORD

BOT CHORD

#### LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=73(LC 7)

Max Uplift 5=-139(LC 4), 4=-10(LC 5)

Max Grav 5=296(LC 1), 4=32(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-266/147

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) 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 except (jt=lb) 5=139.

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.



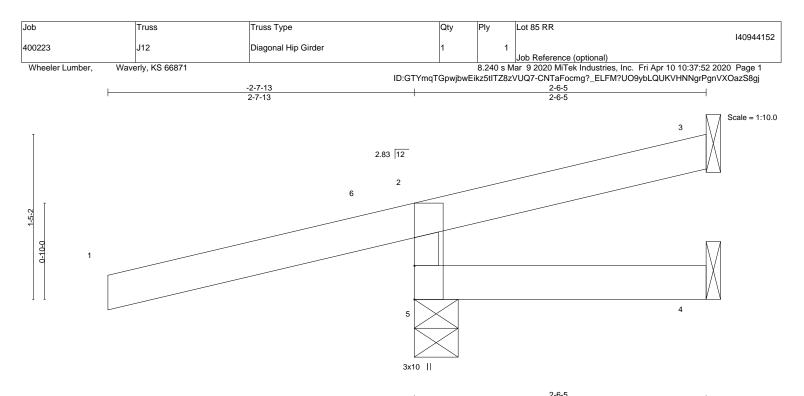
Structural wood sheathing directly applied or 2-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 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 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.





late Offsets (X,Y)	[2:0-0-5,0-1-4], [5:0-0-0,0-1-4]						2-6-5		
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	oc)	l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL)	· ·	'	>999	360	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	0.00 4	4-5	>999	240		
CLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
CDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	-0.00 4	4-5	>999	240	Weight: 9 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD Structural except en BOT CHORD Rigid ceili

Structural wood sheathing directly applied or 2-6-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

# REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=51(LC 7) Max Uplift 5=-146(LC 4), 3=-42(LC 16), 4=-13(LC 1) Max Grav 5=249(LC 1), 3=30(LC 4), 4=27(LC 3)

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) 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, 4 except (jt=lb) 5=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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 42 lb down and 15 lb up at -2-7-13, and 42 lb down and 15 lb up at -2-7-13 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

Concentrated Loads (lb)

Vert: 1=-65(F=-33, B=-33)

Trapezoidal Loads (plf)

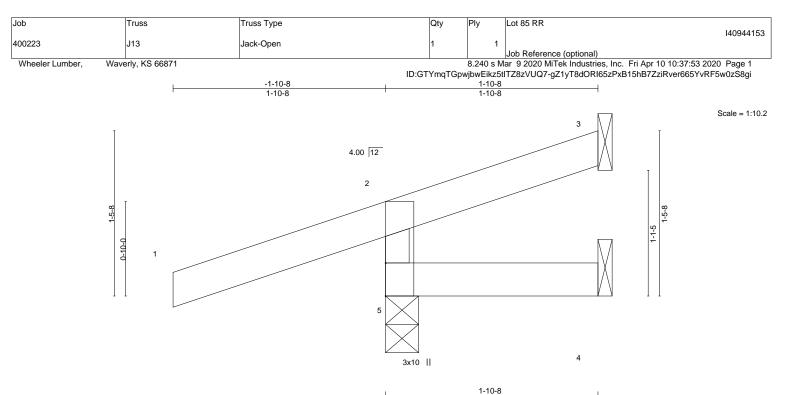
Vert: 1=-0(F=35, B=35)-to-6=-41(F=14, B=14), 6=0(F=35, B=35)-to-2=-7(F=31, B=31), 2=-7(F=31, B=31)-to-3=-50(F=10, B=10), 5=-2(F=9, B=9)-to-4=-14(F=3, B=3)







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.



								1-10-8	3			
Plate Offsets	s (X,Y) [	[2:0-0-7,0-1-4], [5:0-0-0,0	-1-4]									
LOADING (	psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	тс	0.27	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=50(LC 4)

Max Uplift 5=-131(LC 4), 3=-11(LC 8) Max Grav 5=296(LC 1), 3=6(LC 4), 4=29(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-263/140

TOP CHORD

# 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) 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.

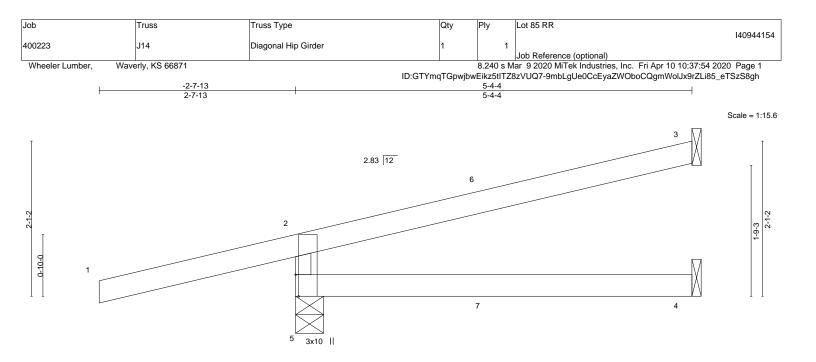
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5 = 131
- 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.



🙏 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.





OADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	(-R	Wind(LL)	-0.03	4-5	>999	240	Weight: 16 lb	FT = 10%

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

REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=76(LC 4)

Max Uplift 5=-198(LC 4), 3=-78(LC 8)

Max Grav 5=439(LC 1), 3=111(LC 1), 4=90(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-386/234

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) 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 except (jt=lb) 5 = 198

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) 62 lb down and 107 lb up at 2-7-6, and 62 lb down and 107 lb up at 2-7-6 on top chord, and 7 lb down and 8 lb up at 2-7-6, and 7 lb down and 8 lb up at 2-7-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb)

Vert: 6=59(F=29, B=29) 7=16(F=8, B=8)



April 10,2020



🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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.

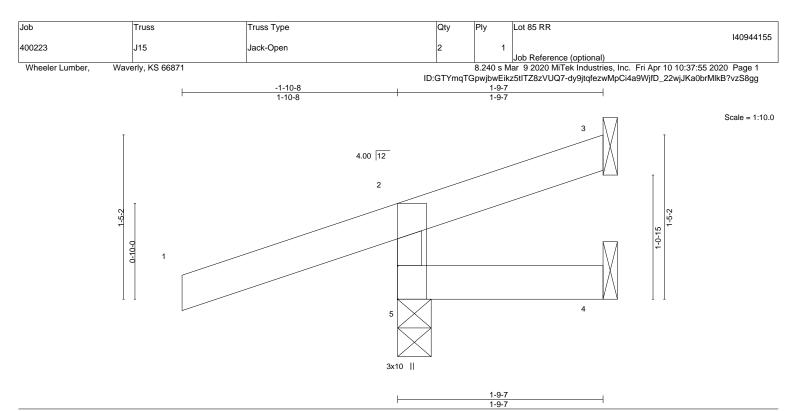


Plate Offsets (X,	) [2:0-0-7,0-1-4], [5:0-0-0,0-1-4	1]								
LOADING (psf)	SPACING- 2-	-0-0 <b>CSI</b> .		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1	1.15 TC	0.27	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1	1.15 BC	0.05	Vert(CT)	0.00	5	>999	240		
BCLL 0.0	* Rep Stress Incr Y	YES WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI20	14 Matri	x-R	Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%

LUMBER-
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TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD Struct excep BOT CHORD Rigid

Structural wood sheathing directly applied or 1-9-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

# REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=49(LC 4) Max Uplift 5=-132(LC 4), 3=-9(LC 5)

Max Grav 5=296(LC 1), 3=9(LC 4), 4=27(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-263/141

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# 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) 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.

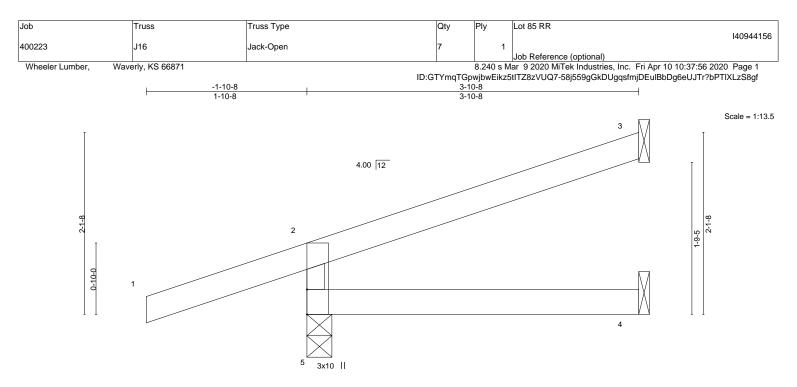
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=132.

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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					3-10-8 3-10-8					
Plate Offsets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0-	1-4]								
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 0.2	7 Vert(LL)	-0.01 4-5	>999	360	MT20	197/144	
TCDL 10.0	Lumber DOL	1.15	BC 0.1	2 Vert(CT)	-0.02 4-5	>999	240			

BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) 0.0 Wind(LL) 0.0		n/a >999	n/a 240	Weight: 12 lb	FT = 10%
	-	PF No.2		BRACING- TOP CHORD	Struct	Iral wood	l sheathing di	rectly applied or 3-10-8	oc purlins
BOT CH		PF No.2				end vert	0		oo punno,
WEBS	2x3 SF	PF No.2		BOT CHORD	Rigid (	ceiling dir	ectly applied of	or 10-0-0 oc bracing.	

# REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=77(LC 4)

Max Uplift 5=-120(LC 4), 3=-51(LC 8) Max Grav 5=342(LC 1), 3=97(LC 1), 4=68(LC 3)

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

TOP CHORD 2-5=-301/147

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) 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.

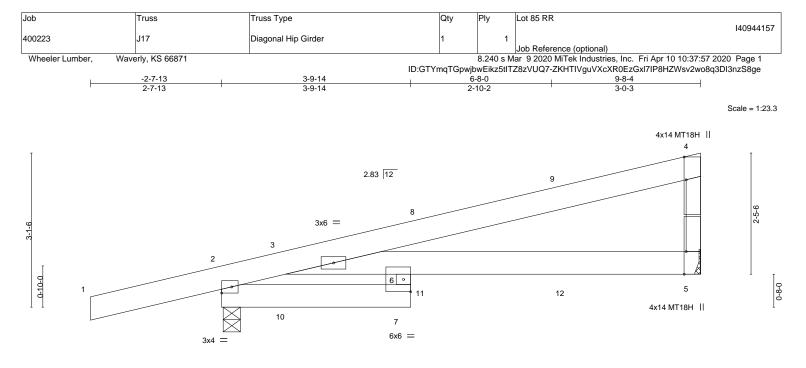
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=120.

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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	0-9 <u>-6</u>	<u>3-9-14</u> 3-9-8		-8-0 10-2		<u>9-8-4</u> 3-0-3					
Plate Offsets (X,Y)	[2:Edge,0-1-8], [4:0-5-9,Edge], [5:0-5-8,			10-2	·	3-0-3					
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 NO Code IRC2018/TPI2014	CSI. TC 0.71 BC 0.62 WB 0.02 Matrix-S	DEFL. in Vert(LL) -0.12 Vert(CT) -0.27 Horz(CT) 0.06 Wind(LL) 0.12	5-6 >910 5-6 >418 5 n/a	L/d 360 240 n/a 240	<b>PLATES</b> MT20 MT18H Weight: 47 lb	<b>GRIP</b> 197/144 197/144 FT = 10%				
LUMBER- TOP CHORD     2x6 SPF No.2     BRACING- TOP CHORD       BOT CHORD     2x6 SPF No.2     TOP CHORD     Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.       WEBS     2x4 SPF No.2     BOT CHORD     Rigid ceiling directly applied or 10-0-0 oc bracing.											
REACTIONS.       (size)       5=Mechanical, 2=0-4-3         Max Horz       2=106(LC 5)         Max Uplift       5=-132(LC 8), 2=-232(LC 4)         Max Grav       5=615(LC 1), 2=752(LC 1)											
FORCES.       (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-303/22, 3-4=-312/44, 4-5=-298/121         BOT CHORD       3-6=-61/250, 5-6=-61/250											
<ul> <li>TOP CHORD 2-3=-303/22, 3-4=-312/44, 4-5=-298/121</li> <li>BOT CHORD 3-6=-61/250</li> <li>NOTES- <ol> <li>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</li> <li>All plates are MT20 plates unless otherwise indicated.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>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.</li> <li>Refer to girder(s) for truss to truss connections.</li> <li>Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=132, 2=232.</li> <li>This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.</li> <li>Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 32 lb up at 1-3-7, 105 lb down and 63 lb down at 1-3-8, 20 lb down and 31 lb up at 4-1-7, and 217 lb down and 82 lb up at 6-11-6 on top chord, and 3 lb down at 1-3-8, 7, 19 lb down and 71 lb up at 4-17, and 217 lb down and 82 lb up at 6-11-6, and S0 lb down at 1-3-8, 20 lb down and 4.1-7, 19 lb down and 71 lb up at 4-1-16, and 50 lb down at 1-3-8, 20 lb down at 4-1-7, 19 lb down and 71 lb up at 4-1-6, and 50 lb down at 1-3-8, 20 lb down at 4-1-7, 19 lb down and 71 lb up at 4-1-16, and 50 lb down at 1-3-8, 20 lb down and 71 lb up at 4-1-7, and 217 lb down and 82 lb up at 4-1-16, and 50 lb down at 1-3-8, 20 lb down at 4-1-7, 19 lb down and 71 lb up at 4-1-6, and 50 lb down at 1-3-8, 20 lb down at 4-1-7, and 217 lb down and 82 lb up at 6-11-6, and 50 lb down at 1-3-8, 20 lb down at 4-1-</li></ol></li></ul>											
1) Dead + Roof Live (b Uniform Loads (plf)	<ul> <li>9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).</li> <li>LOAD CASE(S) Standard</li> <li>1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15</li> </ul>										

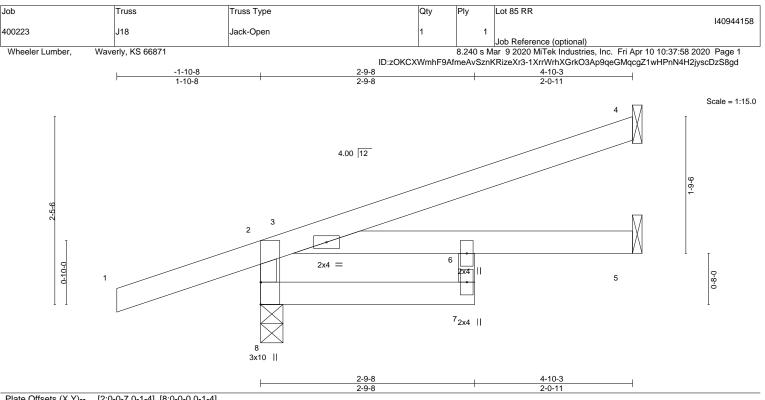
Concentrated Loads (lb) Vert: 8=-39(F=-8, B=-31) 9=-35(F) 11=-2(F=7, B=-8) 12=-250(F=-33, B=-217)



April 10,2020



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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 0.28	Vert(LL) -0.03	6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.06	6	>930	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.02	6	>999	240	Weight: 17 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD Structural wor except end ve BOT CHORD Rigid ceiling of

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

# REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 8=90(LC 4) Max Uplift 8=-103(LC 4), 4=-60(LC 8)

Max Grav 8=410(LC 1), 4=134(LC 1), 5=107(LC 3)

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

TOP CHORD 2-8=-385/126

#### 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) 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.

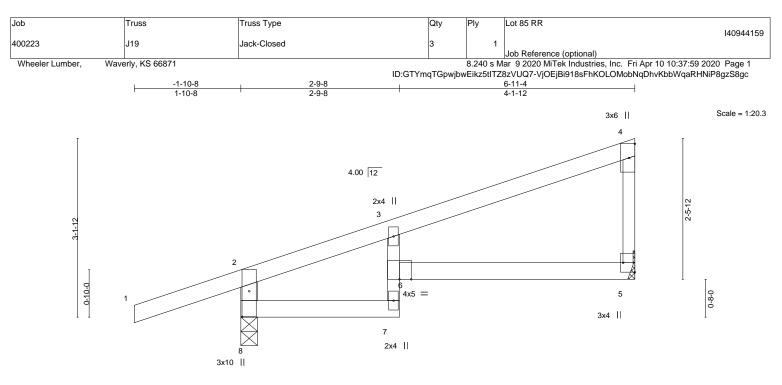
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 8=103.
- 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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		<b>⊢</b>		<u>9-8</u> 9-8				<u>6-11-4</u> 4-1-12			
Plate Offsets (X,Y)	[5:Edge,0-2-8], [8:0-5-6,0	-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	тс	0.46	Vert(LL)	-0.09	6	>845	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.18	5-6	>456	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TF	912014	Matrix	-R	Wind(LL)	0.09	6	>845	240	Weight: 21 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,
BOT CHORD	2x4 SPF No.2 *Except*		except end verticals.
	3-7: 2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	4-5: 2x3 SPF No.2		

REACTIONS. (size) 8=0-3-8, 5=Mechanical Max Horz 8=125(LC 5)

Max Uplift 8=-143(LC 4), 5=-62(LC 8) Max Grav 8=464(LC 1), 5=280(LC 1)

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

 TOP CHORD
 2-8=-420/154, 2-3=-259/33

# 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) 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.

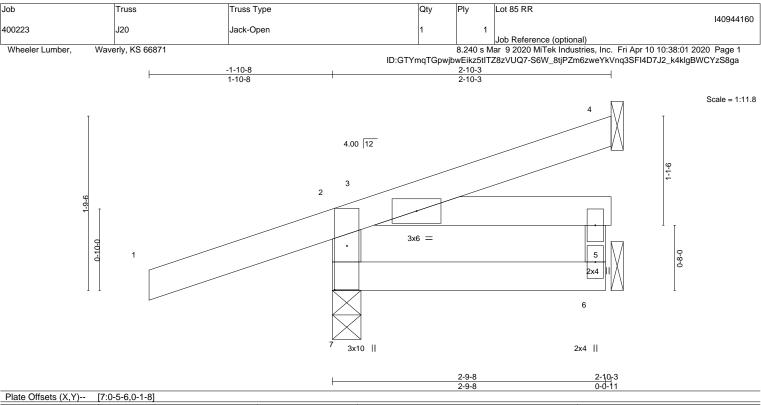
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=143.

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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OADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. ir	(loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.04	5	>706	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -0.08	5	>368	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01	4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.01	5	>999	240	Weight: 12 lb FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-10-3 oc purlins,
BOT CHORD	2x4 SPF No.2		except end verticals.
WEBS	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	6-8: 2x3 SPF No.2		

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 6=Mechanical Max Horz 7=63(LC 4) Max Uplift 7=-112(LC 4), 4=-20(LC 8) Max Grav 7=335(LC 1), 4=72(LC 1), 6=59(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-7=-303/121

#### 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) 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.

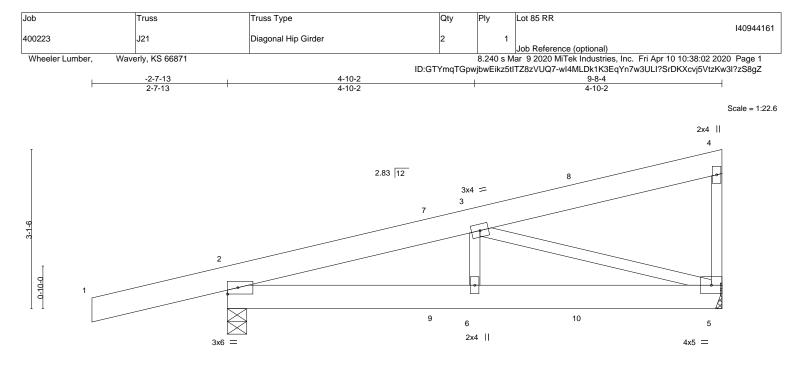
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 7=112.

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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		4-10-2 4-10-2			9-8- 4-10		
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15		<b>FL.</b> in rt(LL) -0.02	(loc) l/defl 6 >999	L/d 360	PLATES MT20	<b>GRIP</b> 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.43 Ve	rt(CT) -0.03	5-6 >999	240		
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IRC2018/TPI2014		rz(CT) 0.01 nd(LL) 0.01	5 n/a 6 >999	n/a 240	Weight: 47 lb	FT = 10%
LUMBER-		BR	ACING-				

TOP CHORD

BOT CHORD

# LUMBER-

2x6 SPF No.2 TOP CHORD BOT CHORD 2x6 SPF No.2 WEBS 2x3 SPF No.2

REACTIONS. 5=Mechanical, 2=0-4-9 (size) Max Horz 2=117(LC 5) Max Uplift 5=-101(LC 8), 2=-220(LC 4) Max Grav 5=467(LC 1), 2=677(LC 1)

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

TOP CHORD 2-3=-792/124

BOT CHORD 2-6=-138/699. 5-6=-138/699

WEBS 3-5=-717/164

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) 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.

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) 5=101. 2=220.
- 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) 71 lb down and 36 lb up at 4-1-7, 71 lb down and 36 lb up at 4-1-7, and 103 lb down and 75 lb up at 6-11-6, and 103 lb down and 75 lb up at 6-11-6 on top chord, and 10 lb down and 4 lb up at 4-1-7, 10 lb down and 4 lb up at 4-1-7, and 31 lb down at 6-11-6, and 31 lb down at 6-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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=-70, 2-5=-20

Concentrated Loads (lb)

Vert: 8=-71(F=-35, B=-35) 9=8(F=4, B=4) 10=-37(F=-19, B=-19)



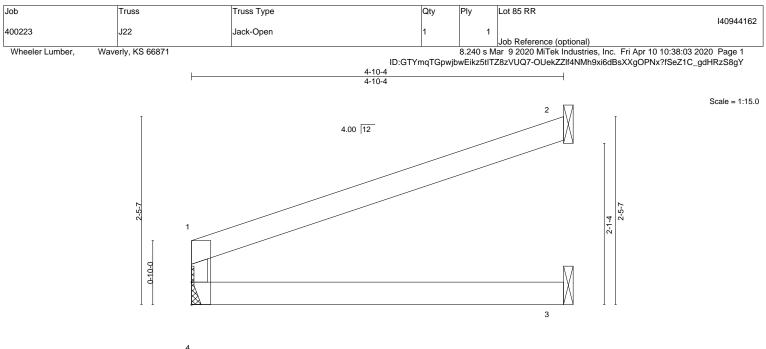
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **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.



# 3x10 ||

4-10-4 4-10-4 [1:0-0-7,0-1-4], [4:0-0-0,0-1-4]

LOADING	G (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.0	2 3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.0	5 3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.0	32	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	2 3-4	>999	240	Weight: 12 lb	FT = 10%
				BRACING					
LUMBER	<b>(-</b>			BRACING-					

Plate Offsets (X,Y)--

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

TOP CHORD Structural wood sheathing directly applied or 4-10-4 oc purlins, BOT CHORD

except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing

#### REACTIONS. (size) 4=Mechanical, 2=Mechanical, 3=Mechanical

Max Horz 4=56(LC 8)

Max Uplift 4=-22(LC 4), 2=-73(LC 8) Max Grav 4=211(LC 1), 2=154(LC 1), 3=90(LC 3)

#### NOTES-

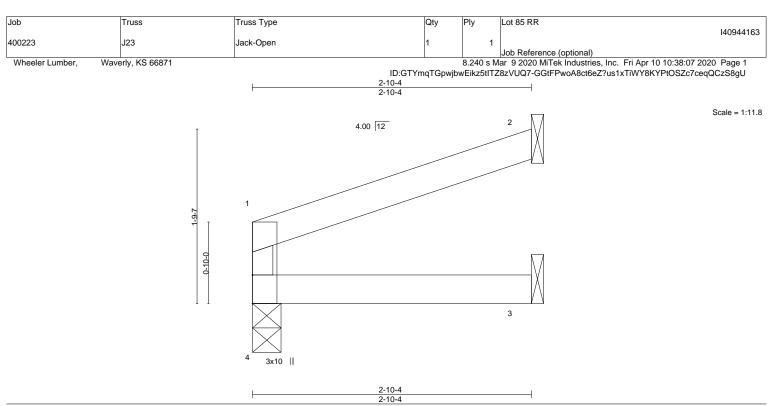
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for 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.
- Refer to girder(s) for truss to truss connections.
- 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) 4, 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.



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



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	oc) l/de	efl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL)	-0.00 3	3-4 >99	9 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT)	-0.01 3	3-4 >99	9 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	2 n/	/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00 3	3-4 >99	9 240	Weight: 7 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

# REACTIONS. (size) 4=0-3-8, 2=Mechanical, 3=Mechanical

Max Horz 4=37(LC 5) Max Uplift 4=-10(LC 4), 2=-44(LC 8)

Max Grav 4=121(LC 1), 2=89(LC 1), 3=52(LC 3)

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) 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.

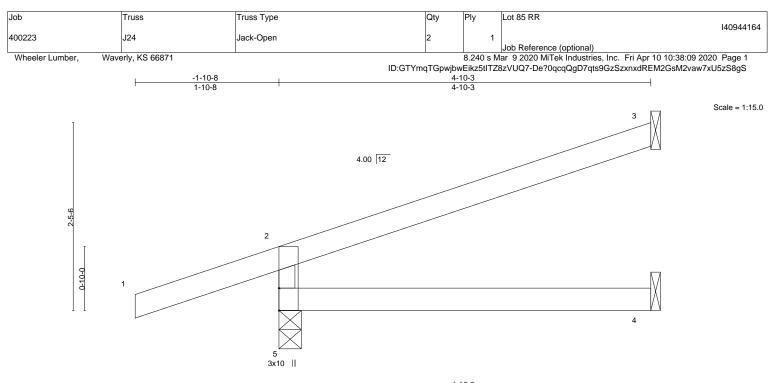
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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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			<u>4-10-3</u> 4-10-3					
Plate Offsets (X,Y) [2:0-0-7,0-1-4], [5:0-0-0,0-1-4]								
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP					
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.02 4-5 >999 360 MT20 197/144					
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.05 4-5 >999 240					
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-R	Wind(LL) 0.01 4-5 >999 240 Weight: 14 lb FT = 10%					

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

# REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=90(LC 4) Max Uplift 5=-121(LC 4), 3=-67(LC 8)

Max Grav 5=379(LC 1), 3=134(LC 1), 4=87(LC 3)

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

TOP CHORD 2-5=-332/157

## 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) 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.

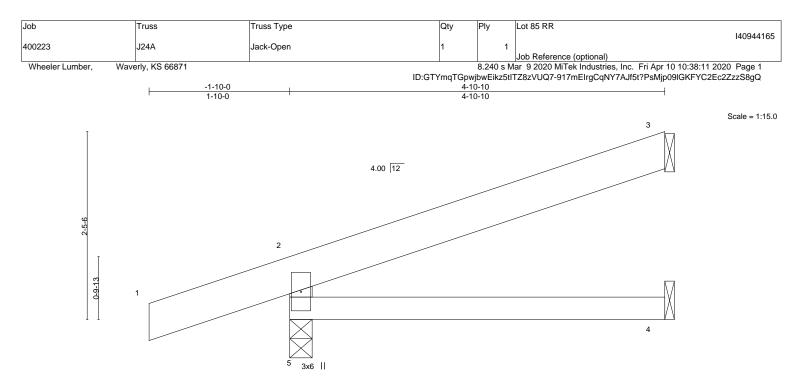
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=121.
- 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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4-10-10 4-10-10												
LOADING TCLL	(psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.13	DEFL. Vert(LL)	in -0.02	(loc) 4-5	l/defl >999	L/d 360	PLATES MT20	<b>GRIP</b> 197/144
	10.0 0.0 *	Lumber DOL	1.15 YES	BC WB	0.16	Vert(CT) Horz(CT)	-0.04	4-5	>999	240	W120	137/144
	10.0	Rep Stress Incr Code IRC2018/TF		Matrix	0.00 <-R	Wind(LL)	0.01 0.01	4-5	n/a >999	n/a 240	Weight: 19 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=91(LC 4) Max Uplift 5=-123(LC 4), 3=-67(LC 8) Max Grav 5=378(LC 1), 3=140(LC 1), 4=79(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-326/158

#### 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) 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.

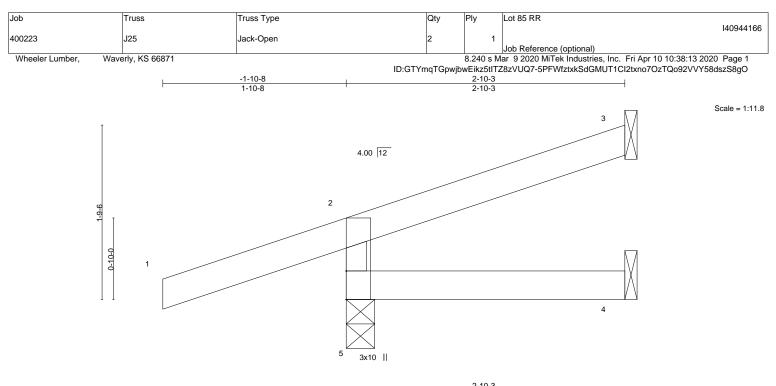
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=123.
- 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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								2-10-3				
								2-10-3			I	
Plate Offsets	s (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0	-1-4]									
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	5.0	Plate Grip DOL	1.15	тс	0.27	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL 1	0.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 1	0.0	Code IRC2018/TP	912014	Matrix	(-R	Wind(LL)	0.00	5	>999	240	Weight: 9 lb	FT = 10%

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TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

TOP CHORD S BOT CHORD F

BRACING-

Structural wood sheathing directly applied or 2-10-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

# REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=63(LC 4) Max Uplift 5=-121(LC 4), 3=-32(LC 8)

Max Grav 5=310(LC 1), 3=52(LC 3)Max Grav 5=310(LC 1), 3=52(LC 1), 4=48(LC 3)

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

TOP CHORD 2-5=-274/139

## 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) 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 except (jt=lb) 5=121.
- 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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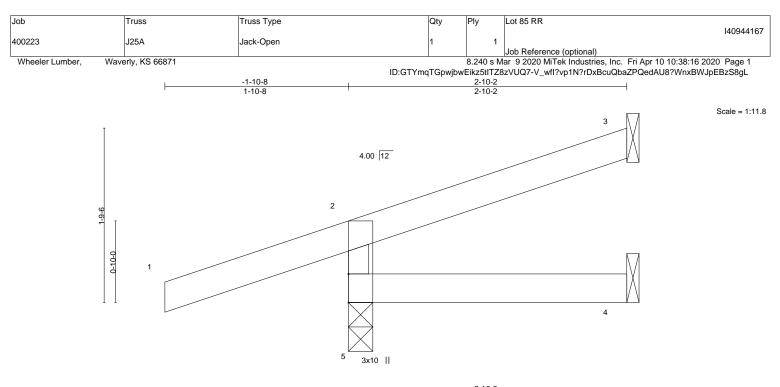


Plate Offsets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]		2-10-2 2-10-2
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.         in         (loc)         l/defl         L/d           Vert(LL)         -0.00         4-5         >999         360           Vert(CT)         -0.00         4-5         >999         240           Horz(CT)         -0.00         3         n/a         n/a           Wind(LL)         0.00         5         >999         240         Weight: 9 lb         FT = 10%
TCLL 25.0	Plate Grip DOL 1.15	TC 0.27	
TCDL 10.0	Lumber DOL 1.15	BC 0.05	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	

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TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

# REACTIONS. (size) 5=0-3-0, 3=Mechanical, 4=Mechanical

Max Horz 5=63(LC 4) Max Uplift 5=-121(LC 4), 3=-32(LC 8)

Max Grav 5=310(LC 1), 3=52(LC 1), 4=48(LC 3)

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

TOP CHORD 2-5=-274/139

## 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) 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.

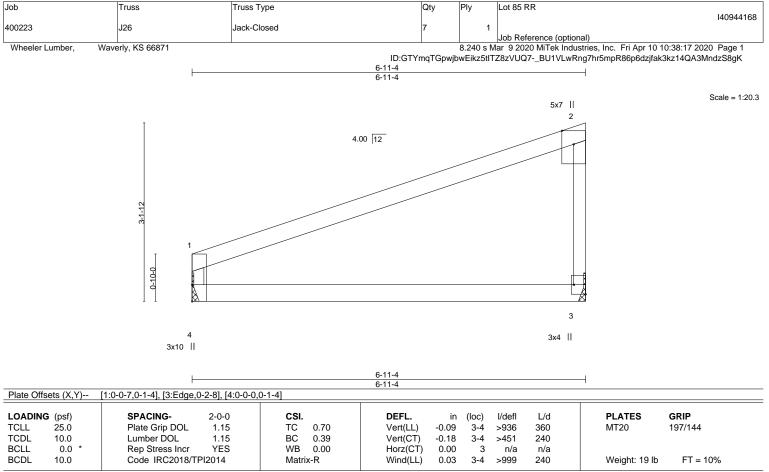
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=121.
- 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 Rd Chesterfield, MO 63017

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#### LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

 BRACING 

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

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

### REACTIONS. (size) 4=Mechanical, 3=Mechanical

Max Horz 4=122(LC 5) Max Uplift 4=-47(LC 4), 3=-67(LC 8)

Max Grav 4=303(LC 1), 3=303(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-4=-251/96

TOF CHORD

#### 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) 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, 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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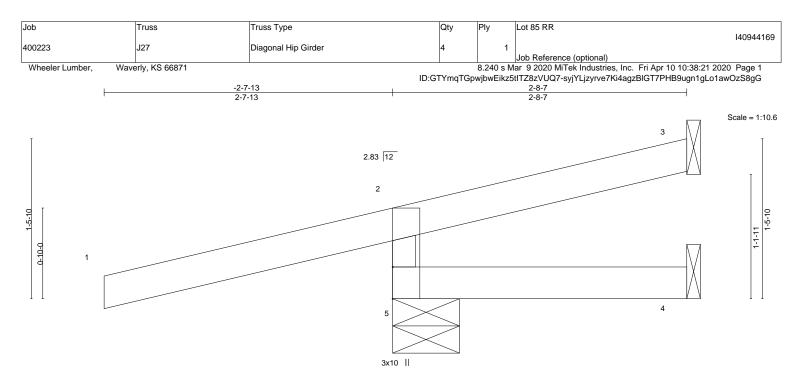


Plate Offsets (X,Y) [2:0-0-5,0-1-4], [5:0-0-0,0-1-4]							2-8-7 2-8-7					
Plate Olisets	5 (X,Y)	[2:0-0-5,0-1-4], [5:0-0-0,0	-1-4]			1						
LOADING (p	psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	5.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL 1	0.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 1	0.0	Code IRC2018/TF	PI2014	Matri	k-R	Wind(LL)	-0.00	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER	

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD Struct excep BOT CHORD Rigid

Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

# REACTIONS. (size) 5=0-7-6, 3=Mechanical, 4=Mechanical

Max Horz 5=52(LC 7) Max Uplift 5=-154(LC 4), 3=-48(LC 17), 4=-14(LC 1) Max Grav 5=270(LC 1), 3=28(LC 4), 4=28(LC 3)

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) 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, 4 except (jt=lb) 5=154.
- 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) 46 lb down and 16 lb up at -2-7-13, and 46 lb down and 16 lb up at -2-7-13 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

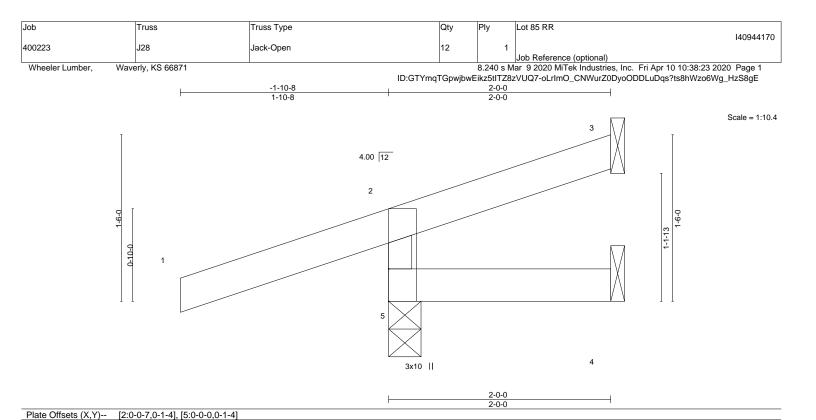
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
  - Concentrated Loads (lb)
  - Vert: 1=-71(F=-36, B=-36)
  - Trapezoidal Loads (plf)

Vert: 1=-0(F=35, B=35)-to-2=-48(F=11, B=11), 2=-4(F=33, B=33)-to-3=-49(F=10, B=10), 5=-0(F=10, B=10)-to-4=-14(F=3, B=3)





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DEFL.

LUMBEF	र-			BRACING-				
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.00 Wind(LL) -0.00	3 n/a 5 >999	n/a 240	Weight: 7 lb	FT =
TCDL	10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00	5 >999	240		
TCLL	25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) 0.00	5 >999	360	MT20	197/144

CSI.

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

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

in (loc) l/defl

L/d

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

PLATES

GRIP

FT = 10%

#### REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=52(LC 4) Max Uplift 5=-129(LC 4), 3=-14(LC 8)

SPACING-

Max Grav 5=296(LC 1), 3=7(LC 1), 4=32(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-263/139

TOP CHORD

LOADING (psf)

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

2-0-0

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.

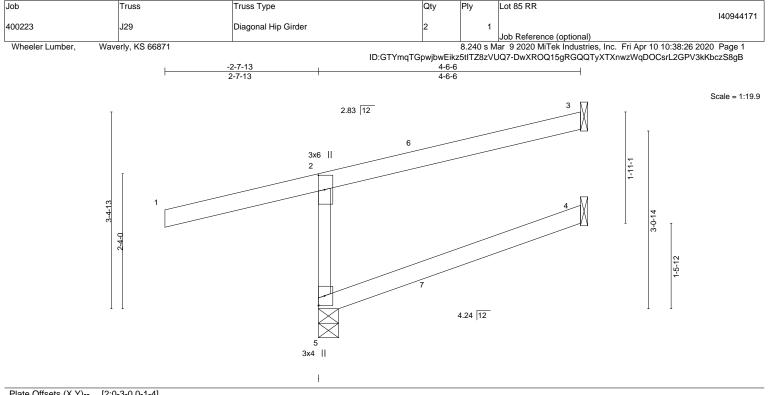
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5 = 129
- 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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.OADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.83	Vert(LL) 0.06 4-5 >921 240	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) 0.05 4-5 >999 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.13 3 n/a n/a	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 16 lb FT = 10%

LUMBER-
---------

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

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

#### REACTIONS. (size) 5=0-4-3, 3=Mechanical, 4=Mechanical

Max Horz 5=86(LC 5) Max Uplift 5=-273(LC 4), 3=-92(LC 8), 4=-30(LC 5)

Max Grav 5=394(LC 1), 3=78(LC 38), 4=79(LC 3)

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

TOP CHORD 2-5=-347/246

#### 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) 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, 4 except (jt=lb) 5=273.

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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 179 lb up at 1-9-8, and 87 lb down and 179 lb up at 1-9-8 on top chord, and 33 lb down and 51 lb up at 1-9-8, and 33 lb down and 51 lb up at 1-9-8 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

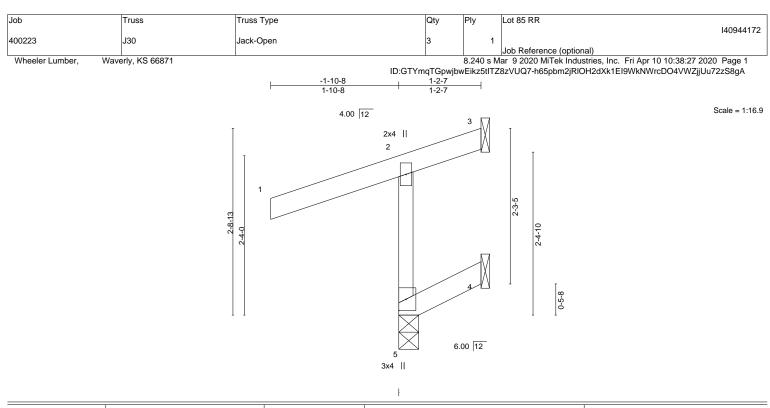
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 6=84(F=42, B=42) 7=8(F=4, B=4)





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LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.27 BC 0.07	DEFL. in Vert(LL) 0.00 Vert(CT) 0.00	5	>999 2	L/d 240 180	PLATES MT20	<b>GRIP</b> 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.03	3	n/a	n/a	Weight: 7 lb	FT = 10%

# LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD WEBS

2x4 SPF No.2 2x3 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=71(LC 5) Max Uplift 5=-113(LC 4), 3=-80(LC 1), 4=-46(LC 5) Max Grav 5=314(LC 1), 3=26(LC 4), 4=28(LC 19)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-295/142

#### 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) 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, 4 except (jt=lb) 5=113.
- 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.

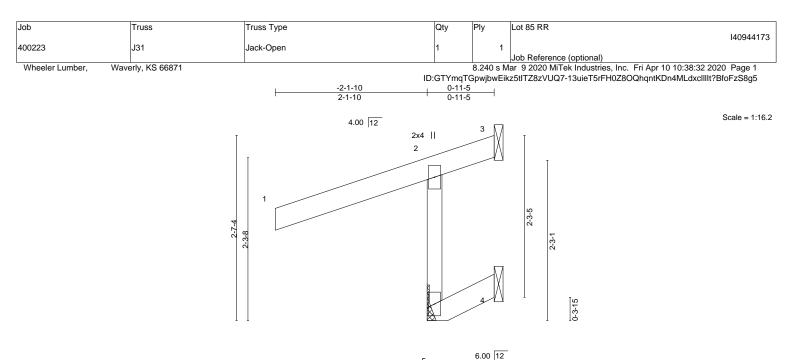


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BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-2-7 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.



5 2x4 ||

ŀ

LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R						Weight: 7 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

# LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

WEBS 2x3 SPF No.2 **REACTIONS.** (size) 5=Mechanical, 3=Mechanical, 4=Mechanical

Max Horz 5=69(LC 5) Max Uplift 5=-160(LC 4), 3=-172(LC 1), 4=-61(LC 5)

Max Grav 5=406(LC 1), 3=75(LC 4), 4=32(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-387/194

#### 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) 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) 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) 4 except (jt=lb) 5=160, 3=172.

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.



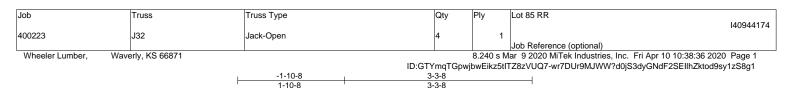
Structural wood sheathing directly applied or 0-11-5 oc purlins,

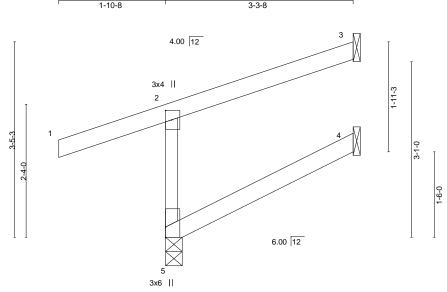
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

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#### Scale = 1:20.2

Plate Offsets (X,Y)--[2:0-2-0,0-1-4], [5:0-2-3,Edge] SPACING-PLATES GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) l/defl L/d TCLL 25.0 Plate Grip DOL 1.15 тс 0.28 Vert(LL) -0.01 4-5 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.12 Vert(CT) -0.01 4-5 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.07 3 n/a n/a Code IRC2018/TPI2014 FT = 10% BCDL 10.0 Matrix-R Wind(LL) >999 240 Weight: 12 lb 0.01 4-5

#### LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD S 6 BOT CHORD F

Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

# REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=90(LC 5) Max Uplift 5=-92(LC 4), 3=-54(LC 8), 4=-6(LC 5) Max Grav 5=323(LC 1), 3=69(LC 1), 4=60(LC 3)

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

TOP CHORD 2-5=-288/128

#### 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) 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.

 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.

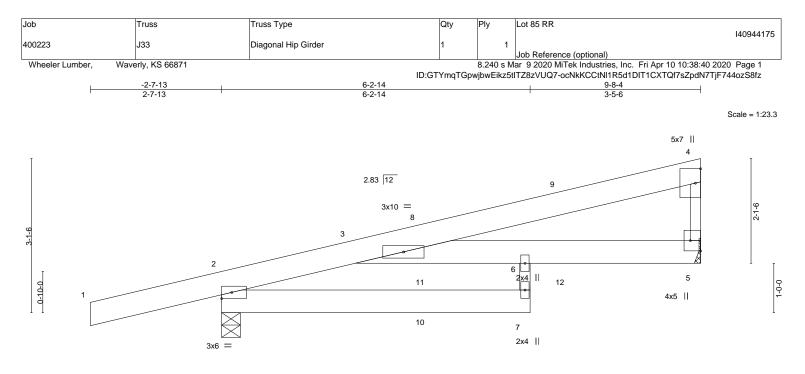
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.

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.



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				<u>6-2</u> 6-2						<u>9-8-4</u> 3-5-6	
Plate Offsets (X,Y)	[5:Edge,0-2-8]			02							
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	0.62	Vert(LL)	-0.11	3-6	>988	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.24	3-6	>476	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.08	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TF	PI2014	Matrix	k-S	Wind(LL)	0.11	3-6	>999	240	Weight: 48 lb	FT = 10%

TOP CHORD

BOT CHORD

|--|

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x6 SPF No.2 WEBS 2x3 SPF No.2

REACTIONS. (size) 5=Mechanical, 2=0-4-9

Max Horz 2=101(LC 22) Max Uplift 5=-79(LC 8), 2=-210(LC 4)

Max Grav 5=493(LC 1), 2=687(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 4-5=-293/118

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) 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.

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) 5 except (jt=lb) 2 = 210

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) 71 lb down and 36 lb up at 4-1-7, 71 lb down and 36 lb up at 4-1-7, and 103 lb down and 64 lb up at 6-11-6, and 103 lb down and 76 lb up at 6-11-6 on top chord, and 10 lb down and 4 lb up at 4-1-7, 10 lb down and 4 lb up at 4-1-7, and 92 lb down at 6-11-6, and 31 lb down at 6-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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=-70, 2-7=-20, 5-6=-20

Concentrated Loads (lb) Vert: 9=-64(F=-28, B=-36) 10=8(F=4, B=4) 12=-80(F=-62, B=-19)



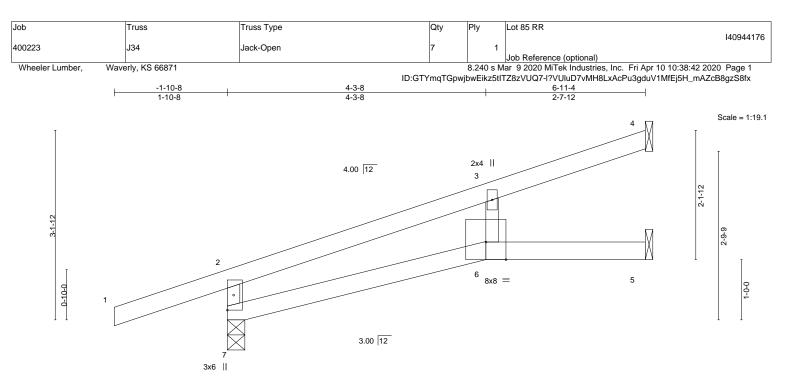
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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 design parameters and READ NOTES ON TIPS ON TIPS AND INCLODED MITCR REPERVICE PAGE MIT-14/3 refer to 1000 SEC. Design valid for use only with MITER deconnectors. 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 quidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Qua** Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



				<u>4-3-8</u> 4-3-8					<u>6-11-4</u> 2-7-12		
Plate Offsets (X,Y)	[2:0-0-7,0-1-4], [7:0-0-5,	0-1-4]									
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	тс	0.50	Vert(LL)	-0.13	6-7	>632	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.24	6-7	>334	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.06	4	n/a	n/a		

Wind(LL)

0.10

6-7

>811

#### LUMBER-

BCDL

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

10.0

 BRACING 

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

 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

240

### REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 7=84(LC 4) Max Uplift 7=-66(LC 4), 4=-27(LC 8), 5=-2(LC 8)

Max Grav 7=463(LC 1), 4=165(LC 1), 5=119(LC 1)

Code IRC2018/TPI2014

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

TOP CHORD 2-7=-360/86

#### 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); 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.

Matrix-P

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) 7, 4, 5.
   7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.

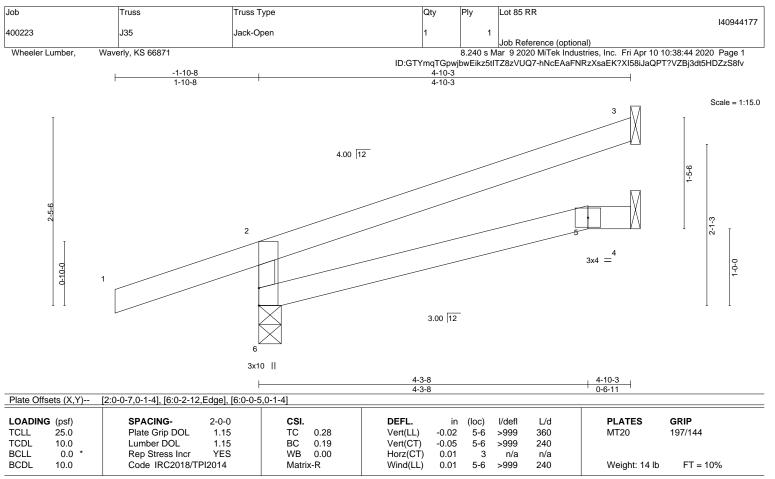


FT = 10%

Weight: 20 lb

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#### LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD Str exi BOT CHORD Rig

Structural wood sheathing directly applied or 4-10-3 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

### REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 6=89(LC 4) Max Uplift 6=-120(LC 4), 3=-67(LC 8)

Max Grav 6=379(LC 1), 3=135(LC 1), 4=87(LC 3)

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

TOP CHORD 2-6=-332/157

#### 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) 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) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

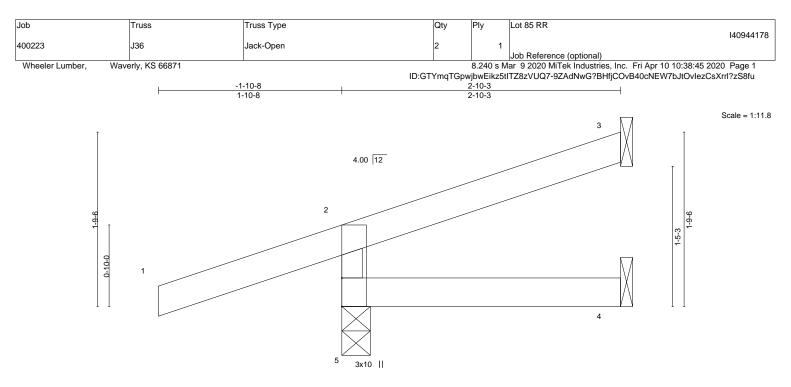
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 6=120.

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.



16023 Swingley Ridge Rd Chesterfield, MO 63017

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		<b> </b>	<u>2-10-3</u> 2-10-3	
Plate Offsets (X,Y)	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]			
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 0.27	Vert(LL) -0.00 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 4-5 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240	Weight: 9 lb FT = 10%

LU	JME	ΒEI	R-	

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

BRACING-TOP CHORD Structural wood sheathing directly applied or 2-10-3 oc purlins, except end verticals. BOT CHORD

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

#### REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=63(LC 4) Max Uplift 5=-121(LC 4), 3=-32(LC 8)

Max Grav 5=310(LC 1), 3=52(LC 1), 4=48(LC 3)

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

TOP CHORD 2-5=-274/139

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) 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.

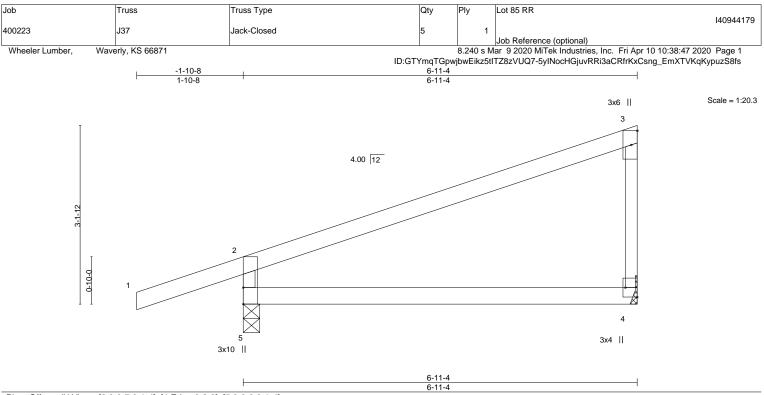
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5 = 121
- 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.



🙏 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.





OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.08	4-5	>957	360	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.17	4-5	>465	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	4	n/a	n/a	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.02	4-5	>999	240	Weight: 21 lb FT = 10%

TOP CHORD

BOT CHORD

#### LUMBER-

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

REACTIONS. (size) 5=0-3-8, 4=Mechanical

Max Horz 5=103(LC 5) Max Uplift 5=-77(LC 4), 4=-19(LC 8)

Max Grav 5=462(LC 1), 4=282(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-406/121

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); 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) 5, 4.

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.



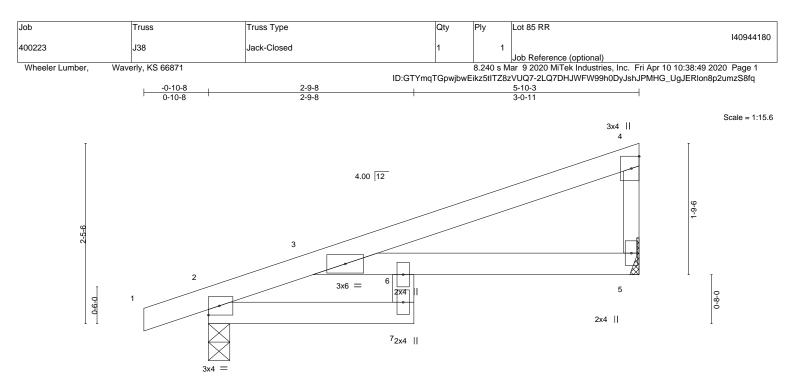
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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 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.





			2-9-8 2-9-8				5-10-3 3-0-11			
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 0.35	Vert(LL)	-0.05	6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.10	7	>647	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.04	5	n/a	n/a		
BCDL 10.0	Code IRC2018/	TPI2014	Matrix-S	Wind(LL)	0.05	6	>999	240	Weight: 18 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 \*Except\* WEBS 4-5: 2x3 SPF No.2

REACTIONS. (size) 5=Mechanical, 2=0-3-8 Max Horz 2=85(LC 5)

Max Uplift 5=-54(LC 8), 2=-86(LC 4) Max Grav 5=245(LC 1), 2=330(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) 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) 5, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



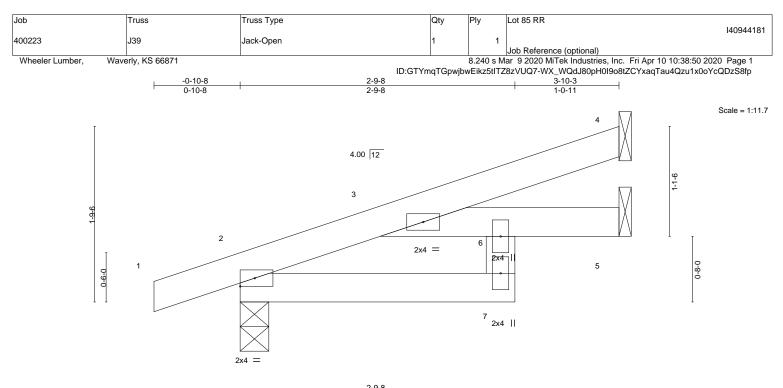
🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE ARXING - Verify design parameters and READ NOTES ON THIS AND INCLODED INTER REPERENCE PAGE MIL-14's rev. Invozens Derrore USE. Design valid for use only with MITER® connectors. 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/TPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-10-3 oc purlins, except end verticals.

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



			2-9-8				
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 0.23	Vert(LL)	-0.02 3	>999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT)	-0.04 3	>999	240	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.01 Matrix-P	Horz(CT) Wind(LL)	0.02 5 0.02 3	n/a >999	n/a 240	Weight: 12 lb FT = 10%
BODE 10.0	Code 11(C2010/11/2014	IVIAUIX-I		0.02 5	2000	240	Weight. 12 10 11 = 1078

BRACING-

TOP CHORD

BOT CHORD

# LUMBER-

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

2x4 SPF No.2

REACTIONS. 4=Mechanical, 2=0-3-8, 5=Mechanical (size) Max Horz 2=65(LC 4) Max Uplift 4=-54(LC 8), 2=-61(LC 4) Max Grav 4=130(LC 1), 2=257(LC 1), 5=73(LC 3)

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

#### NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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.
- 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.

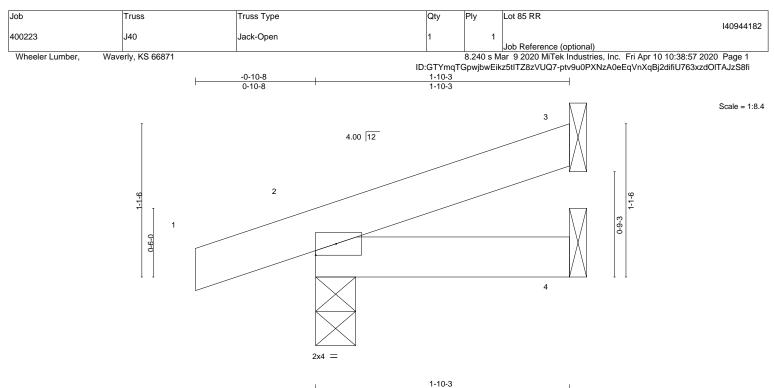


Structural wood sheathing directly applied or 3-10-3 oc purlins.

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

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE ARXING - Verify design parameters and READ NOTES ON THIS AND INCLODED INTER REPERENCE PAGE MIL-14's rev. Invozens Derrore USE. Design valid for use only with MITER® 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/TPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





				1-10-3						
LOADIN TCLL	<b>G</b> (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.05	DEFL. Vert(LL)	in -0.00	(loc) 2	l/defl >999	L/d 360	PLATES MT20	<b>GRIP</b> 197/144
TCDL BCLL	10.0 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.03 WB 0.00	Vert(CT) Horz(CT)	-0.00 -0.00	2-4 3	>999 n/a	240 n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 5 lb	FT = 10%

LUMBER-

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=38(LC 4)

Max Uplift 3=-28(LC 8), 2=-56(LC 4) Max Grav 3=47(LC 1), 2=160(LC 1), 4=36(LC 3)

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) 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.

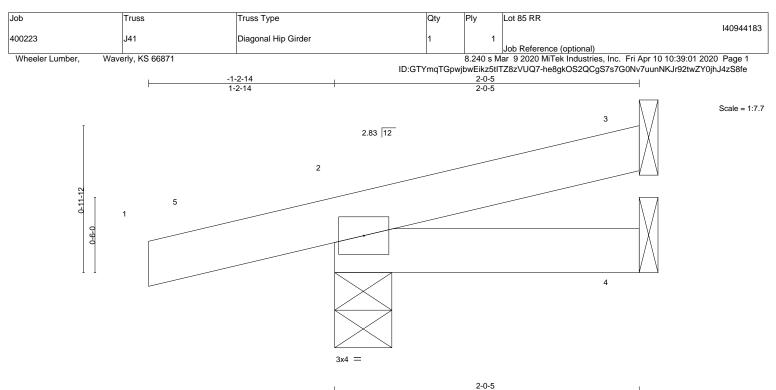
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





BRACING-TOP CHORD

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



					2-0-5								
LOADIN	G (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	2	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	2	>999	240			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 6 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical

Max Horz 2=35(LC 6)

Max Uplift 3=-16(LC 8), 2=-127(LC 6)

Max Grav 3=23(LC 1), 2=65(LC 1), 4=28(LC 3)

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) 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 except (jt=lb) 2=127.
- 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) 7 lb down and 2 lb up at -1-2-14, and 7 lb down and 2 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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
- Concentrated Loads (lb) Vert: 1=-11(F=-5, B=-5)
- Trapezoidal Loads (plf)
  - Vert: 1=0(F=35, B=35)-to-5=-8(F=31, B=31), 5=0(F=35, B=35)-to-3=-50(F=10, B=10), 2=-5(F=7, B=7)-to-4=-14(F=3, B=3)

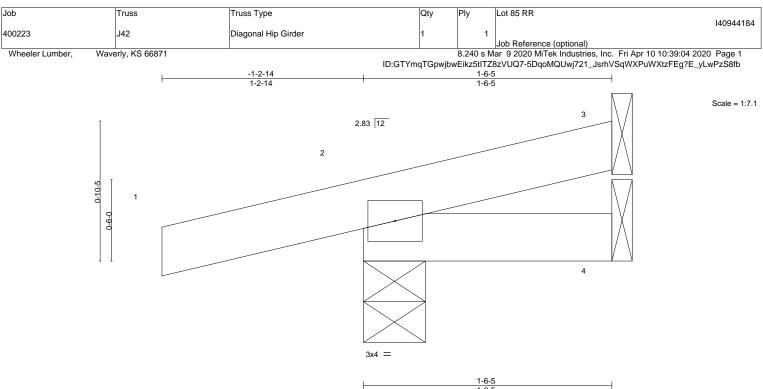


Structural wood sheathing directly applied or 2-0-5 oc purlins.

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



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					1		1-6	6-5		I	
LOADIN	G (psf)	SPACING- 2-0	-0 <b>CSI</b> .		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.	15 TC	0.08	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.	I5 BC	0.02	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr N	O WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	4 Mati	ix-P	Wind(LL)	0.00	2	****	240	Weight: 5 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

```
LUMBER-
```

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

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical

Max Horz 2=30(LC 6)

Max Uplift 3=-17(LC 8), 2=-125(LC 6)

Max Grav 3=27(LC 1), 2=49(LC 9), 4=23(LC 3)

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) 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 except (jt=lb) 2=125.
- 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) 0 lb down and 1 lb up at -1-2-14, and 0 lb down and 1 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 Concentrated Loads (lb) Vert: 1=2(F=1, B=1)
- Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-3=-50(F=10, B=10), 2=-7(F=7, B=7)-to-4=-14(F=3, B=3)



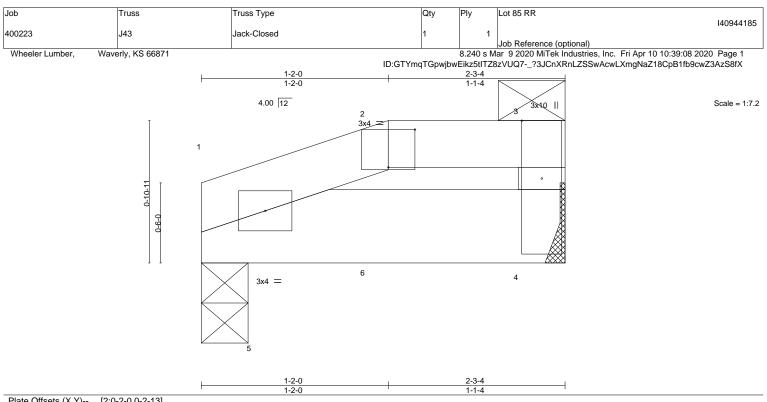
Structural wood sheathing directly applied or 1-6-5 oc purlins.

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

April 10,2020



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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 0.11	Vert(LL)	-0.00	1-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT)	-0.00	1-4	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00	1-4	>999	240	Weight: 8 lb	FT = 10%
LUMBER-			BRACING-						

LUMBER-
---------

LOWIDER-		DRACING-	
TOP CHORD	2x4 SPF 2100F 1.8E *Except*	TOP CHORD	Structural wood sheathing directly applied or 2-3-4 oc purlins,
	2-3: 2x4 SPF No.2		except end verticals, and 2-0-0 oc purlins: 2-3.
BOT CHORD	2x6 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 1=0-3-8, 4=Mechanical

Max Horz 1=23(LC 5) Max Uplift 1=-216(LC 4), 4=-55(LC 4) Max Grav 1=1221(LC 1), 4=301(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) 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) 4 except (jt=lb) 1 = 216
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 49 lb down and 12 lb up at 1-2-0 on top chord, and 1344 lb down and 243 lb up at 0-5-8, and 3 lb down at 1-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

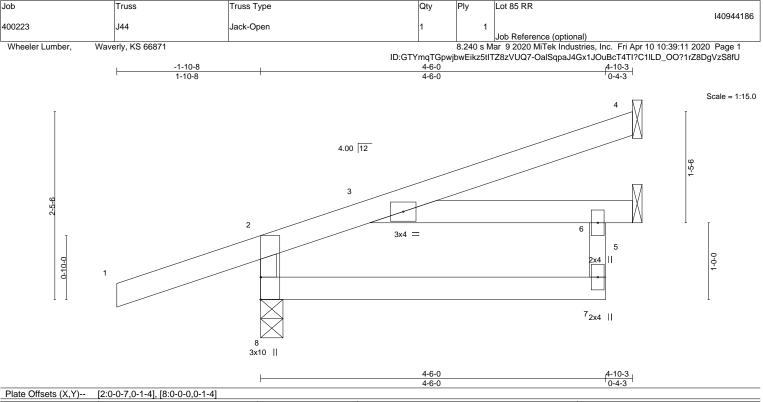
#### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 1-4=-20 Concentrated Loads (lb)
  - Vert: 5=-1344(F)



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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



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 0.27	Vert(LL) -0.	02 7-8	>999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0	05 7-8	>999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0	03 5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0	03 3-6	>999	240	Weight: 18 lb FT = 10%

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

2x3 SPF No.2

TOP CHORD BOT CHORD

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

#### REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 8=90(LC 4) Max Uplift 8=-107(LC 4), 4=-54(LC 8)

Max Grav 8=402(LC 1), 4=127(LC 1), 5=148(LC 3)

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

TOP CHORD 2-8=-360/137

#### 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) 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.

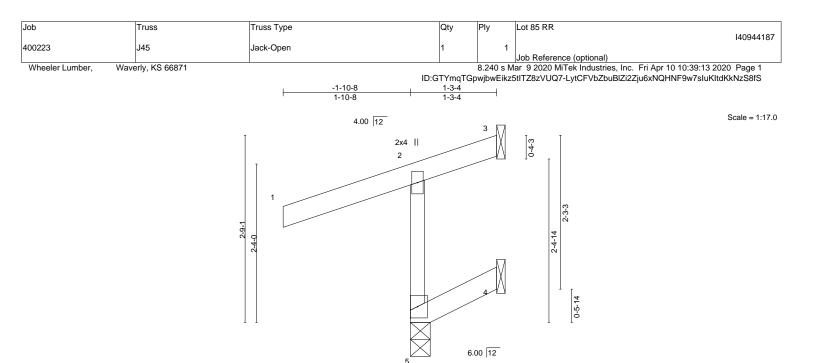
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 8=107
- 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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3x4 ł

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LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	k-R						Weight: 7 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

# LUMBER-

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=71(LC 5) Max Uplift 5=-110(LC 4), 3=-71(LC 1), 4=-43(LC 5) Max Grav 5=309(LC 1), 3=22(LC 4), 4=27(LC 19)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-290/139

#### 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) 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, 4 except (jt=lb) 5=110.
- 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.



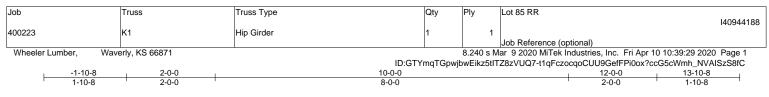
Structural wood sheathing directly applied or 1-3-4 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

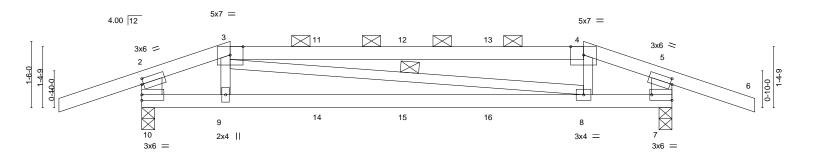
except end verticals.

🙏 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.





Scale = 1:26.1



	2-0-0		10-0-0		12-0-0
	2-0-0		8-0-0	I	2-0-0
Plate Offsets (X,Y)	[2:0-0-8,0-1-8], [5:0-0-8,0-1-8], [7:Edge	e,0-1-8]			
LOADING (psf) ICLL 25.0 ICDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	<b>CSI.</b> TC 0.75 BC 0.64	<b>DEFL.</b> ir Vert(LL) -0.13 Vert(CT) -0.28	8 8-9 >999 360	PLATES         GRIP           MT20         197/144
CDL 10.0 CLL 0.0 * CDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	BC 0.64 WB 0.07 Matrix-S	Vert(CT) -0.28 Horz(CT) 0.01 Wind(LL) 0.08	7 n/a n/a	Weight: 42 lb FT = 10%
	PF No.2 *Except* 4 SPF 2100F 1.8E		BRACING- TOP CHORD	5	irectly applied or 5-3-8 oc purlins, )-0 oc purlins (6-0-0 max.): 3-4.
	PF No.2 PF No.2 *Except* 7: 2x6 SPF No.2		BOT CHORD WEBS	Rigid ceiling directly applied 1 Row at midpt	or 10-0-0 oc bracing. 3-8
REACTIONS. (size	e) 10=0-3-8, 7=0-3-8				

EACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=11(LC 20) Max Uplift 10=-234(LC 4), 7=-234(LC 5)

Max Grav 10=615(LC 21), 7=615(LC 22)

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

TOP CHORD 2-3=-780/169, 3-4=-692/177, 4-5=-769/164, 2-10=-474/154, 5-7=-483/155

BOT CHORD 9-10=-123/727, 8-9=-135/727, 7-8=-123/710

# 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) 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) 10=234, 7=234.

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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 133 lb up at 2-0-0, 53 lb down and 12 lb up at 4-0-12, 53 lb down and 12 lb up at 6-0-0, and 53 lb down and 12 lb up at 7-11-4, and 117 lb down and 133 lb up at 10-0-0 on top chord, and 26 lb down and 49 lb up at 2-0-0, 8 lb down and 7 lb up at 4-0-12, 8 lb down and 7 lb up at 6-0-0, and 8 lb down and 7 lb up at 7-11-4, and 26 lb down and 49 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

#### Continued on page 2

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dof	Truss	Truss Type	Qty	Ply	Lot 85 RR
					140944188
400223	K1	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:39:29 2020 Page 2

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:39:29 2020 Page 2 ID:GTYmqTGpwjbwEikz5tITZ8zVUQ7-t1qFczocqoCUU9GefFPi0ox?ccG5cWmh\_NVAISzS8fC

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Concentrated Loads (lb) Vert: 3=37(F) 4=37(F) 9=7(F) 8=7(F) 14=7(F) 15=7(F) 16=7(F)

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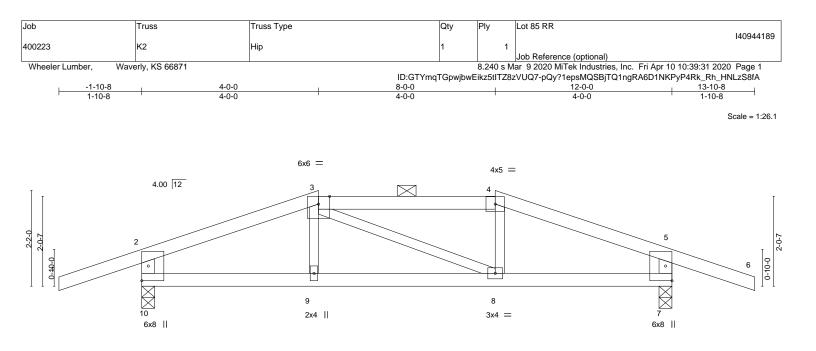


Plate Offsets (X,Y)	4-0-0 4-0-0 [2:0-0-9,0-1-12], [5:0-0-9,0-1-12], [7:0-0	-0,0-1-12], [10:0-0-0,0-1-12]	8-0-0 4-0-0				12-0-0 4-0-0	I	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.61 BC 0.52 WB 0.04 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.09 -0.16 0.01 0.06	8-9 8-9 7	l/defl >999 >856 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 39 lb	<b>GRIP</b> 197/144 FT = 10%
			BRACING- TOP CHOF BOT CHOF	RD	except	end verti	icals, and 2-0	rectly applied or 5-6-0 -0 oc purlins (6-0-0 m or 10-0-0 oc bracing.	
Max U	e) 10=0-3-8, 7=0-3-8 orz 10=15(LC 4) plift 10=-180(LC 4), 7=-180(LC 5) rav 10=668(LC 1), 7=668(LC 1)								
TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb) or 749/103, 3-4=-648/113, 4-5=-750/102, 2 48/649, 8-9=-52/648, 7-8=-44/649	•							

#### 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) 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.

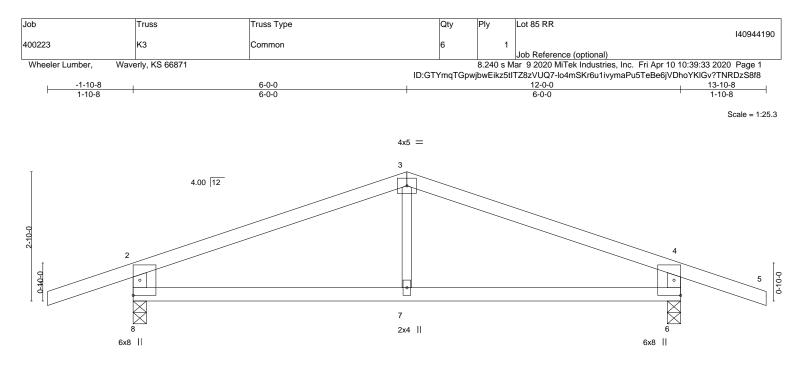
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=180, 7=180.
- 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.



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	6-0-0 6-0-0			12-0-0 6-0-0	 
Plate Offsets (X,Y)	[2:0-0-9,0-1-12], [4:0-0-9,0-1-12], [6:0-0	0,0-1-12], [8:0-0-0,0-1-12]			
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 0.63 BC 0.33 WB 0.07 Matrix-R	DEFL.         ir           Vert(LL)         -0.05           Vert(CT)         -0.10           Horz(CT)         0.01           Wind(LL)         0.03	5 7 >999 360 7 >999 240 6 n/a n/a	 <b>FT = 10%</b>
			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	 : purlins,
Max H Max U	e) 8=0-3-8, 6=0-3-8 orz 8=-26(LC 13) plift 8=-167(LC 4), 6=-167(LC 5) rav 8=668(LC 1), 6=668(LC 1)				
TOP CHORD 2-3=-	Comp./Max. Ten All forces 250 (lb) or 681/81, 3-4=-681/81, 2-8=-589/199, 4-6 17/568, 6-7=-17/568				
2) Wind: ASCE 7-16; V	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right	ph; TCDL=6.0psf; BCDL=6.0			

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

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

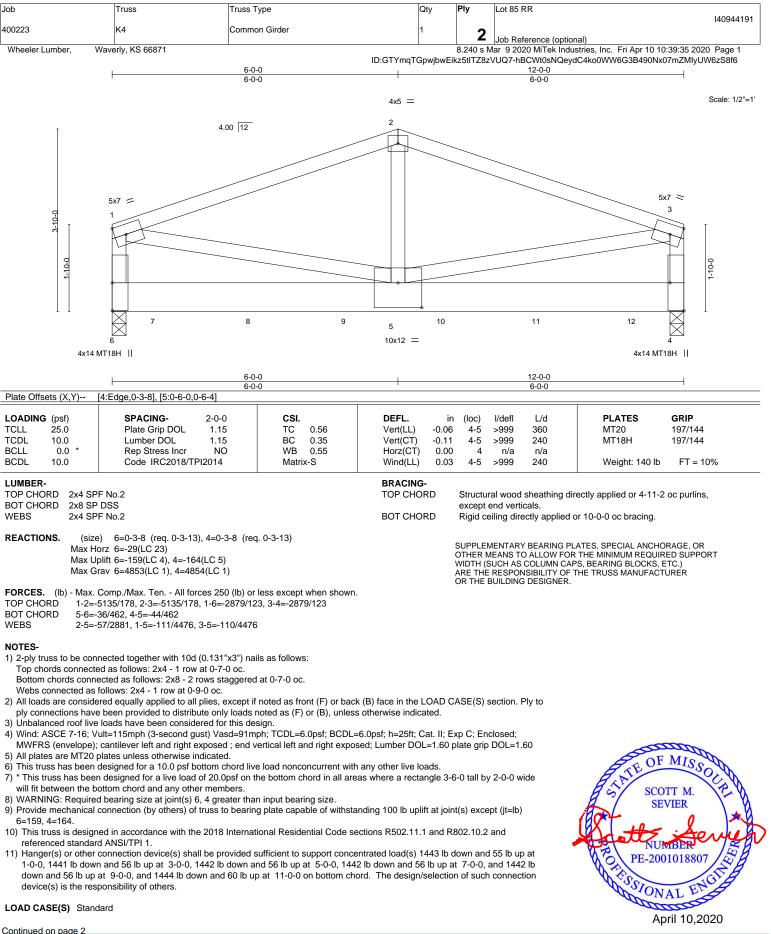
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=167, 6=167.

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.



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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

#### Continued on page 2

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dof	Truss	Truss Type	Qty	Ply	Lot 85 RR
					I40944191
400223	K4	Common Girder	1	2	
				2	Job Reference (optional)
Wheeler Lumber, Wave	rly, KS 66871			8.240 s M	ar 9 2020 MiTek Industries, Inc. Fri Apr 10 10:39:35 2020 Page 2

ID:GTYmqTGpwjbwEikz5tITZ8zVUQ7-hBCWt0sNQeydC4ko0WW6G3B490Nx07mZMIyUW6zS8f6

LOAD CASE(S) Standard

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

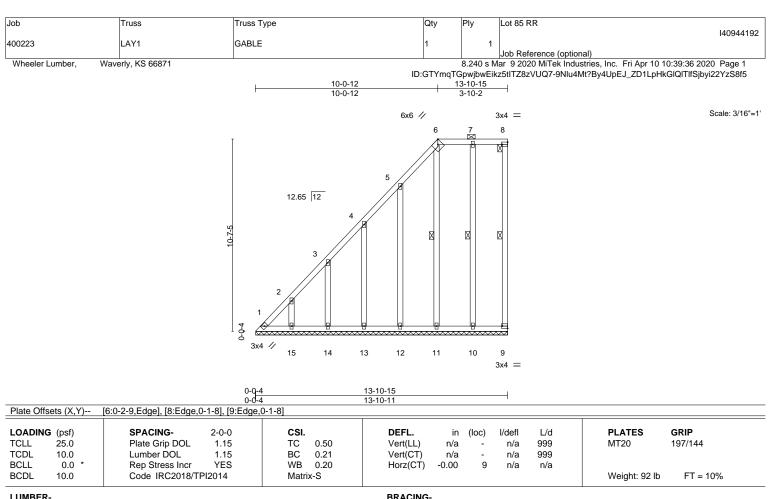
Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 4-6=-20

Concentrated Loads (lb)

Vert: 7=-1443(B) 8=-1441(B) 9=-1442(B) 10=-1442(B) 11=-1442(B) 12=-1444(B)

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LUMBER-	BRACING-	
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,	
BOT CHORD 2x4 SPF No.2	except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.	
WEBS 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:	
OTHERS 2x4 SPF No.2	10-0-0 oc bracing: 10-11,9-10.	
	WEBS 1 Row at midpt 8-9, 6-11, 7-10	
REACTIONS. All bearings 13-10-11.		

All bearings 13-10-11. Max Horz 1=411(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 9, 10 except 1=-172(LC 6), 15=-126(LC 8), 14=-125(LC 8),

13=-122(LC 8), 12=-141(LC 8), 11=-135(LC 7)

Max Grav All reactions 250 lb or less at joint(s) 9, 15, 14, 13, 12, 11, 10 except 1=328(LC 5)

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

TOP CHORD 1-2=-454/297, 2-3=-388/252, 3-4=-318/205, 4-5=-286/187

#### 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) Provide adequate drainage to prevent water ponding.

- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.

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

6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 10 except (jt=lb) 1=172, 15=126, 14=125, 13=122, 12=141, 11=135.

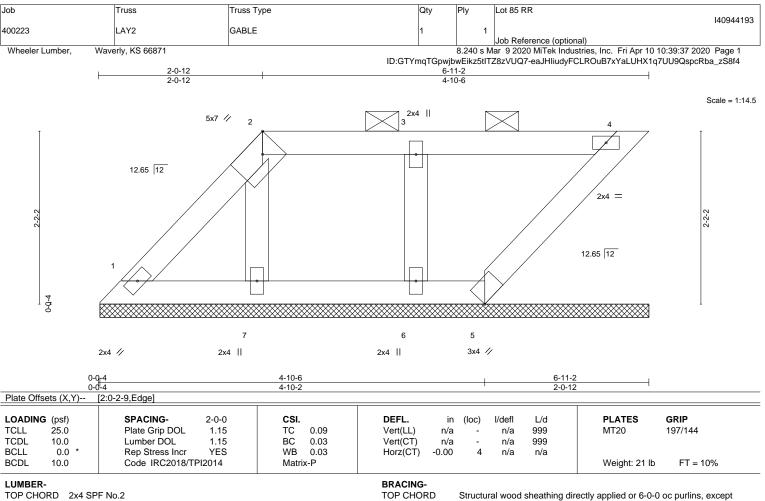
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only design parameters and READ NOTES ON TIPS ON TIPS AND INCLODED MITCR REPERVICE PAGE MIT-14/3 refer to 1000 SEC. Design valid for use only with MITER deconnectors. 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 quidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





BOT CHORD

2-0-0 oc purlins (6-0-0 max.): 2-4.

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

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

2x4 SPF No.2 OTHERS 2x4 SPF No.2

REACTIONS. All bearings 6-10-14.

Max Horz 1=76(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 4, 7, 6 Max Grav All reactions 250 lb or less at joint(s) 1, 4, 5, 7, 6

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

#### NOTES-

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) Provide adequate drainage to prevent water ponding

4) Gable requires continuous bottom chord bearing.

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

- \* 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 6) will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7, 6.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

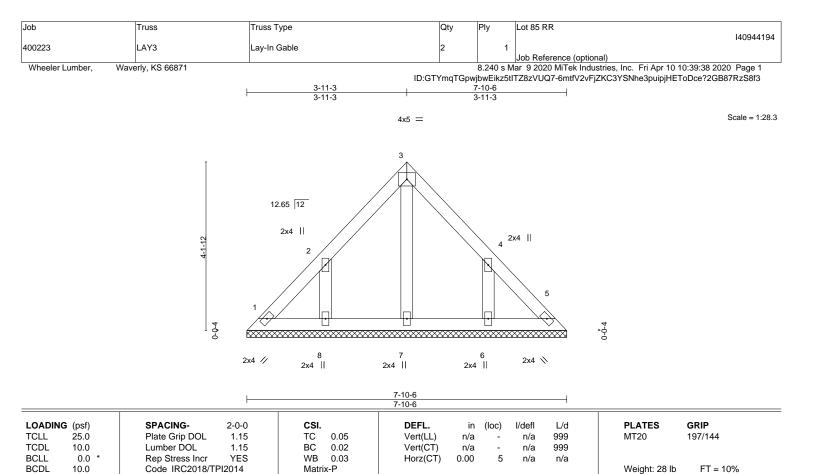
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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<sup>1)</sup> Unbalanced roof live loads have been considered for this design.



BRACING-TOP CHORD

BOT CHORD

	JM	DE	D
L.	ואוע	DE	<b>K</b> -

TOP CHORD 2x4 SPF No.2 BOT CHORD

2x4 SPF No.2 OTHERS 2x4 SPF No.2

REACTIONS. All bearings 7-10-6.

Max Horz 1=-100(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-142(LC 8), 6=-142(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) Gable requires continuous bottom chord bearing.

- 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) 1, 5 except (jt=lb) 8=142.6=142.

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.

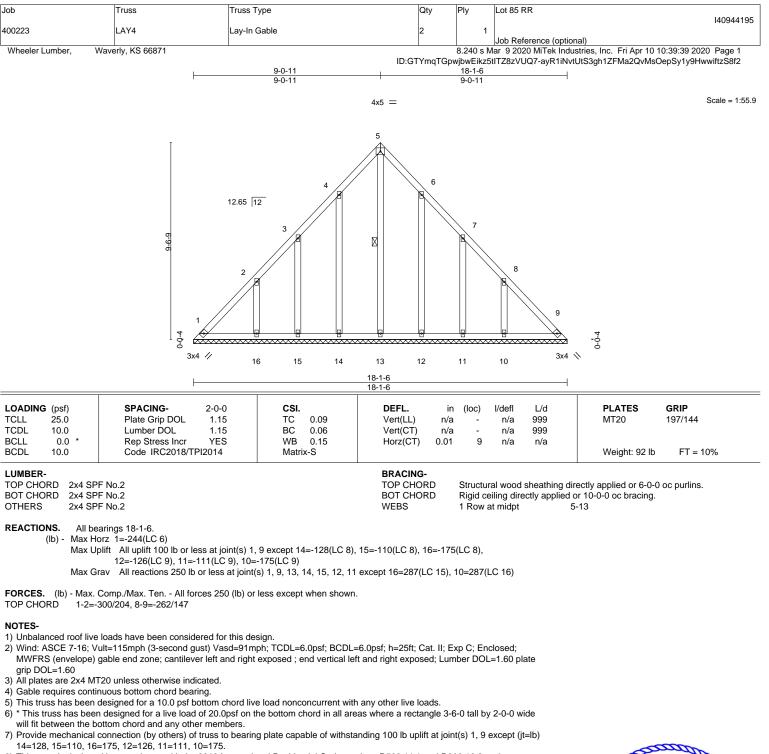


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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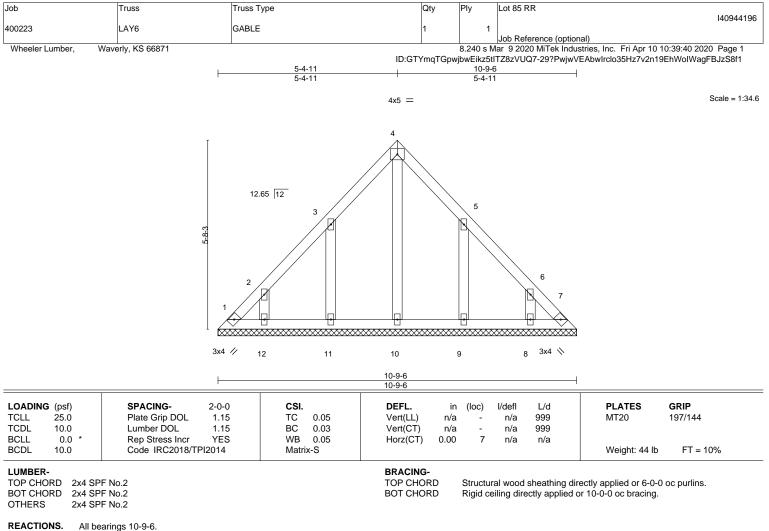


8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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(lb) - Max Horz 1=-141(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-135(LC 8), 12=-106(LC 8), 9=-134(LC 9), 8=-107(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

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

6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

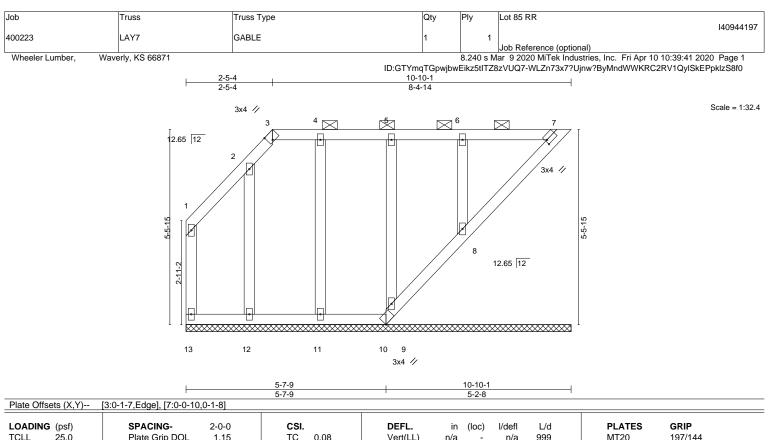
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=135, 12=106, 9=134, 8=107.

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



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LUMBE TOP CH		PF No.2		BRACING- TOP CHORD	Str	ructura	al wood	sheathing dir	rectly applied or 6-0-0	oc purlins,
TCDL BCLL BCDL	10.0 0.0 * 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.05 WB 0.07 Matrix-S	Vert(CT) n/ Horz(CT) -0.0	/a	- 7	n/a n/a	999 n/a	Weight: 50 lb	FT = 10%
TCLL	25.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) n	/a `	-	n/a	999	MT20	197/144

TOP CHORD2x4 SPF No.2TOP CHORDStructural wood sheathing directly applied or 6-0-0 oc purlins,<br/>except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.WEBS2x4 SPF No.2BOT CHORDRigid ceiling directly applied or 6-0-0 oc bracing.OTHERS2x4 SPF No.2BOT CHORDRigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 10-10-1.

(lb) - Max Horz 13=116(LC 5)

Max Uplif All uplift 100 lb or less at joint(s) 13, 10, 12, 11, 9, 8 except 7=-107(LC 5) Max Grav All reactions 250 lb or less at joint(s) 13, 7, 10, 12, 11, 9 except 8=257(LC 1)

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

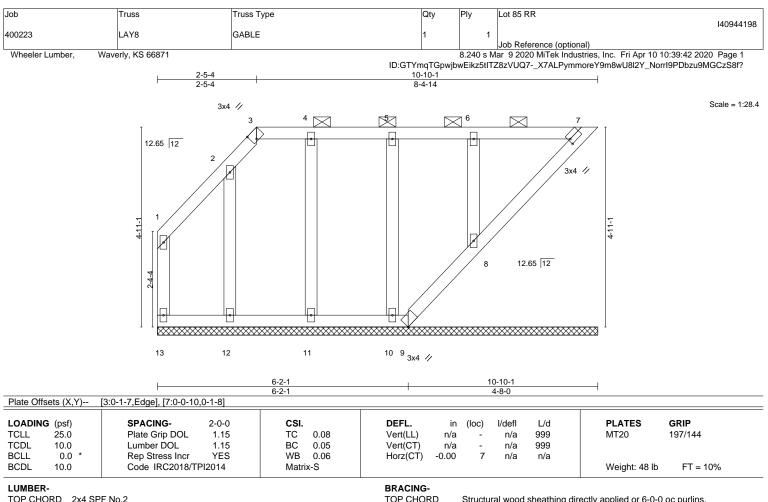
#### NOTES-

- 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=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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 10, 12, 11, 9, 8 except (jt=lb) 7=107.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 9, 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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BOT CHORD

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2

 OTHERS
 2x4 SPF No.2

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8.

REACTIONS. All bearings 10-10-1.

(lb) - Max Horz 13=104(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 13, 7, 9, 12, 11, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 13, 7, 9, 12, 11, 10 except 8=256(LC 1)

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

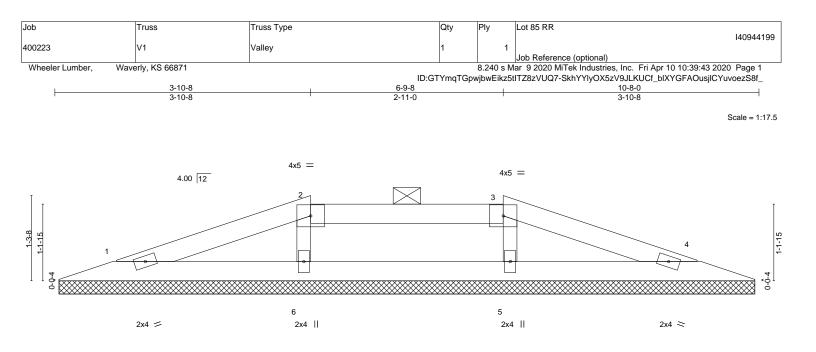
#### NOTES-

- 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=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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 7, 9, 12, 11, 10, 8.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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0-0 <u>-12</u> 0-0-12	<u>3-10-8</u> 3-9-12		<u> </u>
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 0.10 BC 0.06 WB 0.04 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         4         n/a         n/a           Weight:         24 lb         FT = 10%
BOT CHORD 2x4 SF WEBS 2x3 SF	PF No.2 PF No.2 PF No.2 PF No.2 PF 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.): 2-3.         BOT CHORD       Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** All bearings 10-6-8.

(lb) - Max Horz 1=-16(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 4, 5, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 5=292(LC 22), 6=292(LC 21)

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) Provide adequate drainage to prevent water ponding.

4) Gable requires continuous bottom chord bearing.

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

6) \* 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.

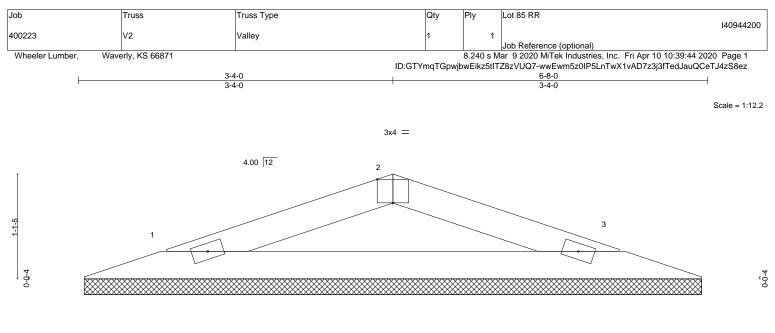
Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5, 6.
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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



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2x4 📁

2x4 🗢

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

late Offsets (X,Y) [	2:0-2-0,Edge]			-
OADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) n/a - n/a 999	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 13 lb FT = 10%

BOT CHORD

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

REACTIONS. (size) 1=6-6-8, 3=6-6-8 Max Horz 1=-14(LC 13) Max Uplift 1=-32(LC 4), 3=-32(LC 5) Max Grav 1=215(LC 1), 3=215(LC 1)

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

 TOP CHORD
 1-2=-282/90, 2-3=-282/90

#### NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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

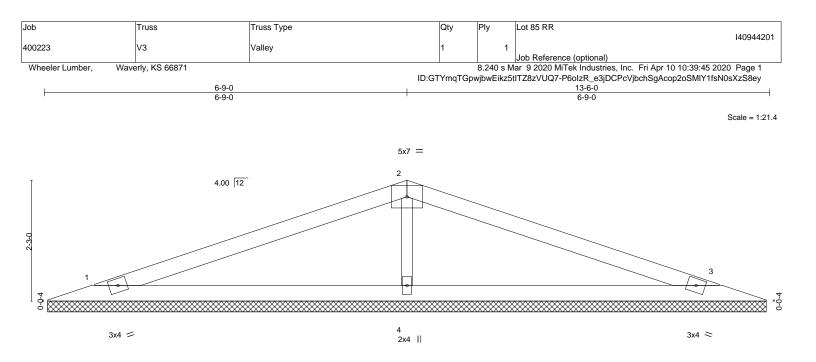
3) Gable requires continuous bottom chord bearing.

- 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) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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





0-0 <u>-12</u> 0-0-12			13-6-0 13-5-4						
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	<b>CSI.</b> TC 0.48 BC 0.28	DEFL. Vert(LL) Vert(CT)	n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	<b>GRIP</b> 197/144
CLL 0.0 * CDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.08 Matrix-S	Horz(CT)	0.00	3	n/a	n/a	Weight: 31 lb	FT = 10%

TOP CHORD

BOT CHORD

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

2x3 SPF No.2

REACTIONS. 1=13-4-8, 3=13-4-8, 4=13-4-8 (size) Max Horz 1=34(LC 8) Max Uplift 1=-50(LC 4), 3=-54(LC 9), 4=-54(LC 4) Max Grav 1=234(LC 21), 3=234(LC 22), 4=592(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-4=-417/124 WEBS

#### 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) Gable requires continuous bottom chord bearing.

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) 1, 3, 4.

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.

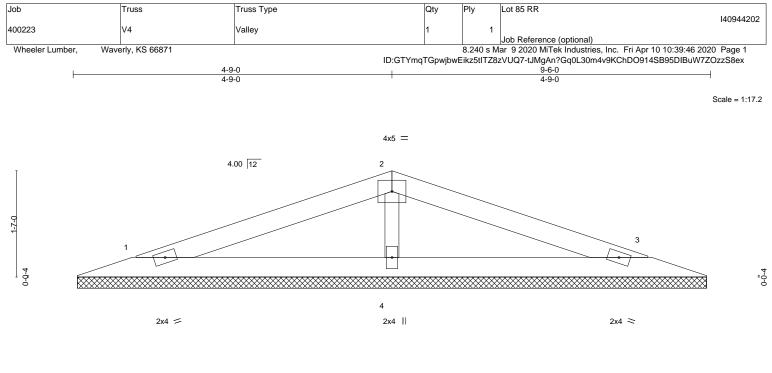
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

🙏 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.



OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 0 SSIONAL E April 10,2020



0-0 <u>-12</u> 0-0-12			<u>9-6-0</u> 9-5-4					
OADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) r	n/a -	n/a	999	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) r	n/a -	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.0	00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 21 lb	FT = 10%

TOP CHORD

BOT CHORD

## LUMBER-

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

2x3 SPF No.2

REACTIONS. 1=9-4-8, 3=9-4-8, 4=9-4-8 (size) Max Horz 1=23(LC 8) Max Uplift 1=-33(LC 4), 3=-35(LC 9), 4=-35(LC 4) Max Grav 1=154(LC 21), 3=154(LC 22), 4=388(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-4=-273/81

## 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) Gable requires continuous bottom chord bearing.

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) 1, 3, 4.

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.

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

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

April 10,2020





OF MISS F 0 SCOTT M. SEVIER ΠÐ PE-200101880 SSIONAL E

