

RE: 210361 Lot 87 W0

Site Information:

Customer: Project Name: 210361 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2018/TPI2014 Wind Code: ASCE716LowRise Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

MiTek USA, Inc.

314-434-1200

16023 Swinglev Ridge Rd Chesterfield, MO 63017

This package includes 85 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	145442739	A5	3/31/2021	21	145442759	D2	3/31/2021
2	145442740	A11	3/31/2021	22	145442760	D3	3/31/2021
3	145442741	A12	3/31/2021	23	145442761	D4	3/31/2021
4	145442742	A17	3/31/2021	24	145442762	E1	3/31/2021
5	145442743	A18	3/31/2021	25	145442763	E2	3/31/2021
6	145442744	A19	3/31/2021	26	145442764	E3	3/31/2021
7	145442745	A20	3/31/2021	27	145442765	G1	3/31/2021
8	145442746	B1	3/31/2021	28	145442766	G2	3/31/2021
9	145442747	B2	3/31/2021	29	145442767	G3	3/31/2021
10	145442748	B3	3/31/2021	30	145442768	G4	3/31/2021
11	145442749	C10A	3/31/2021	31	145442769	G5	3/31/2021
12	145442750	C11A	3/31/2021	32	145442770	G6	3/31/2021
13	145442751	C12A	3/31/2021	33	145442771	G7	3/31/2021
14	145442752	C13A	3/31/2021	34	145442772	G8	3/31/2021
15	145442753	C14A	3/31/2021	35	145442773	H1	3/31/2021
16	145442754	C15	3/31/2021	36	145442774	H2	3/31/2021
17	145442755	C16	3/31/2021	37	145442775	J1	3/31/2021
18	145442756	C17	3/31/2021	38	145442776	J2	3/31/2021
19	145442757	C18	3/31/2021	39	145442777	J3	3/31/2021
20	145442758	D1	3/31/2021	40	145442778	J4	3/31/2021

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

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2022.

Kansas COA: E-943

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



Garcia, Juan



RE: 210361 - Lot 87 W0

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

Site Information	:
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Proje	ect Customer: Block:	Project Name: 21	0361	Subdiv	vision:		
	County:			State:			
No. 41 42 43 44 45 46 47 48 49 50 51	Seal# 145442779 145442780 145442781 145442782 145442783 145442783 145442785 145442786 145442787 145442788 145442789	Truss Name J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15	Date 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021	No. 85	Seal# I45442823	Truss Name V24	Date 3/31/2021
52 53 54 55 56 57 58 59	145442790 145442791 145442792 145442793 145442793 145442795 145442795 145442796 145442797	J16 J17 J18 J19 J20 J21 J22 J23	3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021				
60 61 62 63 64 65 66	145442798 145442799 145442800 145442801 145442802 145442803 145442804	J24 J25 LAY1B LAY3 LAY4 LAY5 LAY6	3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021				
67 68 69 70 71 72 73	145442805 145442806 145442807 145442808 145442809 145442810 145442811	LAY7 LAY8 V6 V7 V8 V9 V10	3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021				
74 75 76 77 78 79 80 81 82 83	145442812145442813145442813145442815145442816145442816145442817145442818145442819145442820145442821	V11 V12 V13 V14 V15 V16 V19 V20 V21 V22	3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021				
84	145442822	V23	3/31/2021				



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This package includes 85 individual, dated Truss Design Drawings and 0 Additional Drawings.

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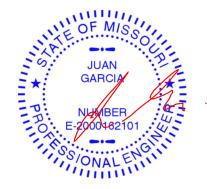
The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2022. Missouri COA: 001193

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



Garcia, Juan

March 31, 2021

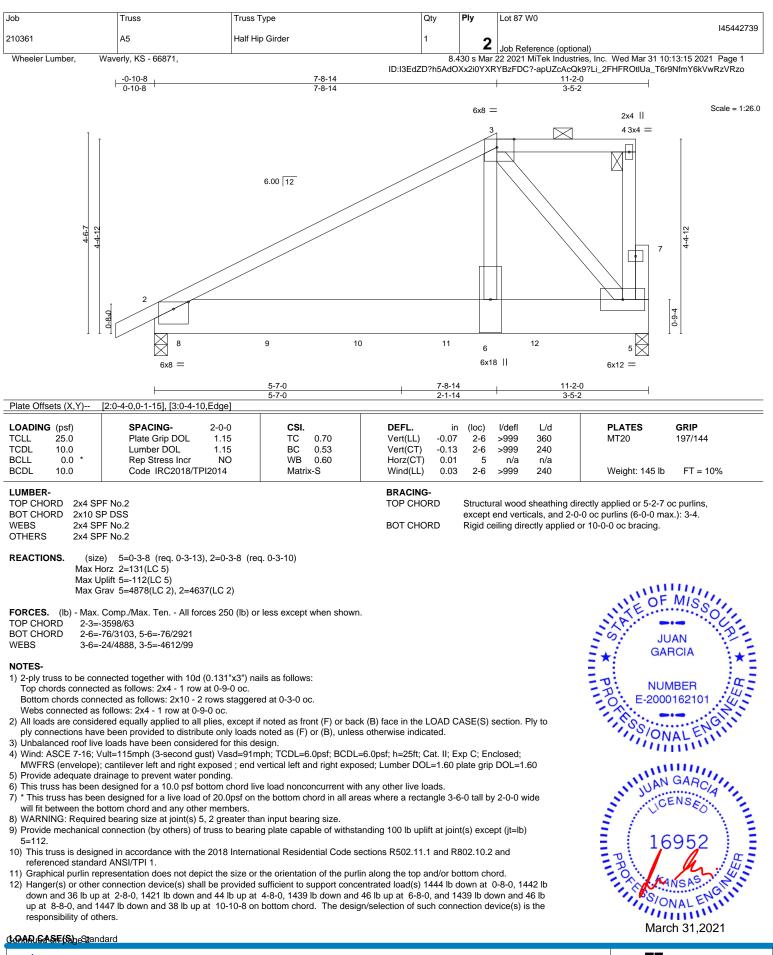


RE: 210361 - Lot 87 W0

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

Site Information	:
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	County:			State:			
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52 53 54 55 56 57 58 59	145442790 145442791 145442792 145442793 145442793 145442795 145442795 145442796 145442797	J16 J17 J18 J19 J20 J21 J22 J23	3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021				
60 61 62 63 64 65 66	145442798 145442799 145442800 145442801 145442802 145442803 145442804	J24 J25 LAY1B LAY3 LAY4 LAY5 LAY6	3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021				
67 68 69 70 71 72 73	145442805 145442806 145442807 145442808 145442809 145442810 145442811	LAY7 LAY8 V6 V7 V8 V9 V10	3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021				
74 75 76 77 78 79 80 81 82 83	145442812145442813145442813145442815145442816145442816145442817145442818145442819145442820145442821	V11 V12 V13 V14 V15 V16 V19 V20 V21 V22	3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021 3/31/2021				
84	145442822	V23	3/31/2021				



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

Job	Truss	Truss Type	Qty	Ply	Lot 87 W0
					145442739
210361	A5	Half Hip Girder	1	2	
				2	Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,		8.4	130 s Mar 2	22 2021 MiTek Industries, Inc. Wed Mar 31 10:13:15 2021 Page 2

ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-apUZcAcQk9?Li_2FHFROtIUa_T6r9NfmY6kVwRzVRzo

LOAD CASE(S) Standard

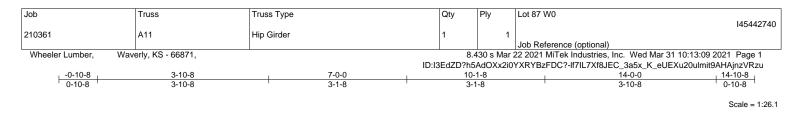
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

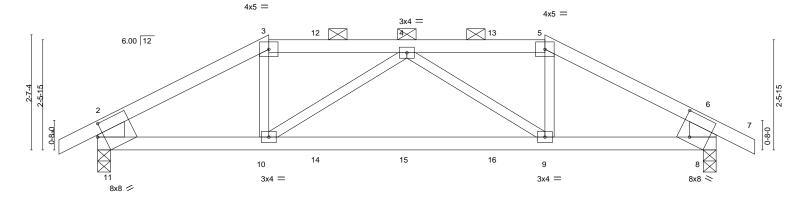
Uniform Loads (plf) Vert: 1-3=-70, 3-4=-70, 2-5=-20

Concentrated Loads (lb)

Vert: 5=-1383(B) 8=-1378(B) 9=-1373(B) 10=-1375(B) 11=-1375(B) 12=-1375(B)







⊢	3-10-8 3-10-8		<u>10-1-8</u> 6-3-0			14-0-0 3-10-8			
Plate Offsets (X,Y)	[8:0-3-2,0-6-8], [11:0-1-10,0-3-4]								
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 NO Code IRC2018/TPI2014	CSI. TC 0.74 BC 0.75 WB 0.18 Matrix-S	Vert(LL) -0.1 Vert(CT) -0.2 Horz(CT) 0.0	n (loc) 1 9-10 5 9-10 3 8 9 9-10	l/defl L/d >999 360 >651 240 n/a n/a >999 240	PLATES MT20 Weight: 47 lb	GRIP 197/144 FT = 10%		
3-5: 2x BOT CHORD 2x4 SF WEBS 2x3 SF	PF 2100F 1.8E *Except* 44 SPF No.2 PF No.2 PF No.2 *Except* -8: 2x8 SP DSS		BRACING- TOP CHORD BOT CHORD	except	end verticals, and 2-	directly applied or 5-0- 0-0 oc purlins (5-0-6 r d or 9-5-3 oc bracing.			
Max H Max U	e) 11=0-3-8, 8=0-3-8 lorz 11=49(LC 28) lplift 11=-241(LC 8), 8=-241(LC 9) irav 11=1034(LC 1), 8=1034(LC 1)					11110	FMISS		
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1484/321, 3-4=-1206/304, 4-5=-1206/304, 5-6=-1484/321, 2-11=-953/237, BOT CHORD 10-11=-262/1227, 9-10=-386/1516, 8-9=-236/1227 WEBS 3-10=-54/529, 4-9=-412/185, 5-9=-54/529, 4-10=-412/185									
2) Wind: ASCE 7-16; W MWFRS (envelope) grip DOL=1.60	WEBS 3-10=-54/529, 4-9=-412/185, 5-9=-54/529, 4-10=-412/185 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; 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.								
 5) * This truss has bee will fit between the b 6) Provide mechanical 11=241, 8=241. 	n designed for a live load of 20.0psf on bottom chord and any other members. connection (by others) of truss to bearing connection (by others) of truss (by others) connection (by others) connec	the bottom chord in all are	eas where a rectangle 3 anding 100 lb uplift at jo	int(s) exce	ept (jt=lb)	The second second	N GARCIA		
referenced standard 8) Graphical purlin rep 9) Hanger(s) or other o	resentation does not depict the size or t connection device(s) shall be provided s	he orientation of the purlir ufficient to support conce	n along the top and/or be ntrated load(s) 77 lb dow	ottom cho vn and 72	rd. Ib up at		6952		
and 72 lb up at 10- down at 9-0-0, and responsibility of othe	and 72 lb up at 5-0-0, 84 lb down and 7 1-8 on top chord, and 210 lb down and 7 210 lb down and 75 lb up at 10-0-12 or ers. E(S) section, loads applied to the face of	75 lb up at 3-10-8, 29 lb c n bottom chord. The desig	lown at 5-0-0, 29 lb dov gn/selection of such cor	vn at 7-0-	0, and 29 lb	Pales	ANSAS NUT		
LOAD CASE(S) Stan	dard					Ma	arch 31,2021		

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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 87 W0
					145442740
210361	A11	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,		8.4	30 s Mar 2	22 2021 MiTek Industries, Inc. Wed Mar 31 10:13:09 2021 Page 2

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Mar 31 10:13:09 2021 Page 2 ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-If7IL7Xf8JEC_3a5x_K_eUEXu20ulmit9AHAjnzVRzu

LOAD CASE(S) Standard

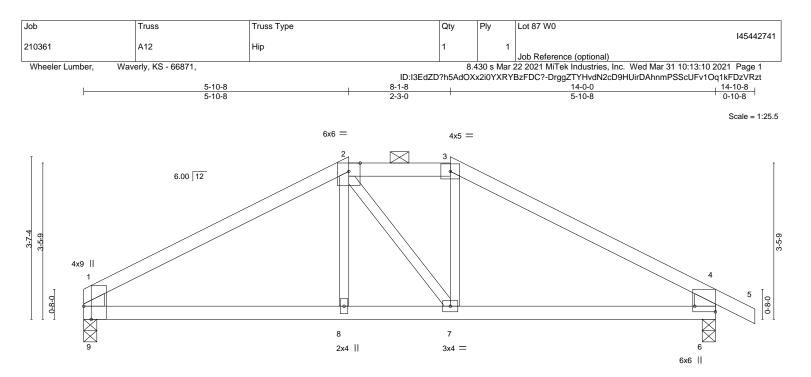
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-11=-20

Concentrated Loads (lb)

Vert: 3=-42(F) 5=-42(F) 10=-210(F) 9=-210(F) 4=-42(F) 12=-42(F) 13=-42(F) 14=-23(F) 15=-23(F) 16=-23(F)





<u>5-10-8</u> 5-10-8					8-1-8 2-3-0			<u>14-0-0</u> 5-10-8			
Plate Offsets (X,Y)	[1:0-3-8,Edge], [6:Edge,0	-							0.00		
OADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.03	7-8	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.07	6-7	>999	240		
3CLL 0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TF	912014	Matri	x-S	Wind(LL)	0.01	7	>999	240	Weight: 44 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 *Except*
	1-9,4-6: 2x6 SPF No.2

REACTIONS. (size) 9=0-3-8, 6=0-3-8 Max Horz 9=-64(LC 4) Max Uplift 9=-67(LC 8), 6=-93(LC 9) Max Grav 9=606(LC 1), 6=690(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-805/75, 2-3=-635/112, 3-4=-815/76, 1-9=-531/106, 4-6=-627/136

BOT CHORD 8-9=-28/636, 7-8=-29/635, 6-7=0/638

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) 9, 6.

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.



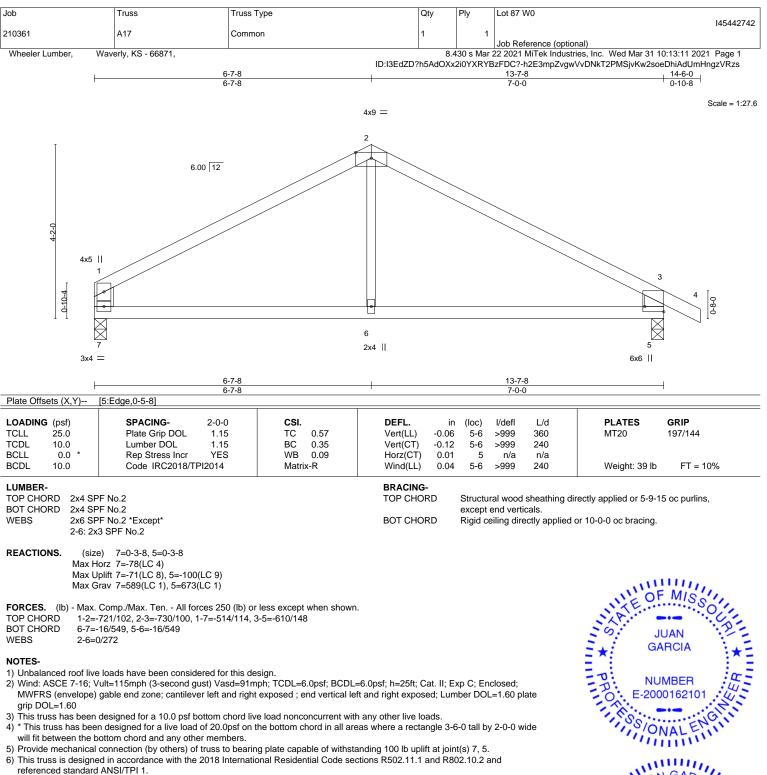
11 1111 MIS

0

Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.

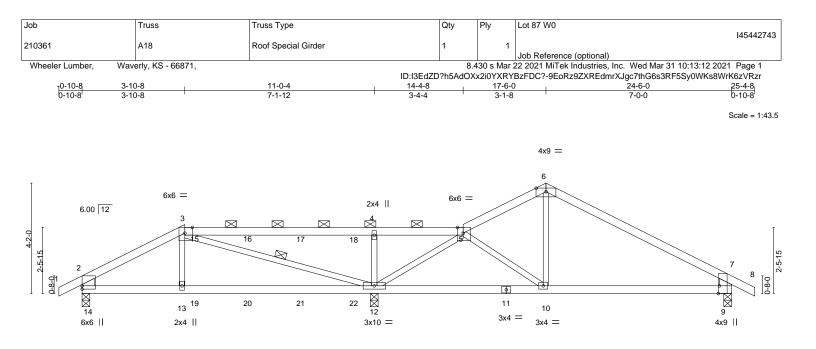
Rigid ceiling directly applied or 10-0-0 oc bracing.





16952 March 31,2021

> NITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017



	 	3-10-8		-0-4		7-6-0				24-6-0	
Plate Offs	ets (X,Y)	3-10-8 [3:0-3-6,Edge], [5:0-3			6	0-5-12				7-0-0	
LOADING		SPACING-	2-0-0	CSI.	DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DC		TC 0.65	Vert(LL)		12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)		12-13	>633	240		
BCLL	0.0 *	Rep Stress In		WB 0.62	Horz(CT)	0.02		n/a	n/a		FT 400/
BCDL	10.0	Code IRC201	8/1PI2014	Matrix-S	Wind(LL)	0.05	12-13	>999	240	Weight: 80 lb	FT = 10%
LUMBER-	-				BRACING-						
TOP CHO		F No.2 *Except*			TOP CHOR	D				irectly applied or 5-0-0	
		4 SPF 2100F 1.8E								0-0 oc purlins (10-0-0	max.): 3-5.
	ORD 2x4 SP				BOT CHOR	D	0	0	2 1 1	or 10-0-0 oc bracing.	
WEBS		F No.2 *Except*			WEBS		1 Row	at midpt		3-12	
	2-14,7-	9: 2x6 SPF No.2									
REACTIO	NS. (size	e) 14=0-3-8, 12=0-	3-8.9=0-3-8								
	- (orz 14=-69(LC 6)	,								
	Max U	plift 14=-200(LC 8),	12=-281(LC 8), 9=-	156(LC 30)							
	Max G	rav 14=731(LC 1), 1	2=1500(LC 1), 9=5	99(LC 1)						120	FMISO
FORCES	(1)	O	II (050 (lb)							NATE.	0,1
TOP CHO				less except when shown 193/224, 6-7=-586/188, 2						SAS	. 0-
TOP CHO		544/205	, 4-5≡0/303, 5-6≡-4	+93/224, 0-7=-300/100, 2	-14=-002/190,					- S: J	IUAN
ВОТ СНО			237/817. 10-12=-21	7/381, 9-10=-67/422						- 🛶 : G/	ARCIA
WEBS		=0/400, 3-12=-1143/2	,	,						= <u>^</u>	101
										= 10: 10	
NOTES-										- 1.	IMBER :
,		loads have been co		0						O. E-200	00162101
				ph; TCDL=6.0psf; BCDL						1.0.	
	S (envelope) DL=1.60	gable end zone; can	tilever left and right	exposed ; end vertical le	ert and right expose	a; Lun	DO 1901	L=1.60 p	late	1 SSI	ENG 1
		ainage to prevent wa	ater ponding							110	NAL
				e load nonconcurrent wit	h any other live loa	ds					ume.
				the bottom chord in all are			6-0 tall b	v 2-0-0 v	/ide		
		ottom chord and any				5					
6) Provide	e mechanical	connection (by other	s) of truss to bearir	ig plate capable of withsta	anding 100 lb uplift	at joir	t(s) exc	ept (jt=lb))	IN JUAN	NGARCI
), 12=281, 9=									Nº ST	ENSA
			the 2018 Internation	onal Residential Code se	ctions R502.11.1 a	nd R8	02.10.2	and			0
	ced standard					/				E /	- A E
, ,				ne orientation of the purlir ufficient to support conce	0 1					E (1)	6052
				2 lb up at 6-3-0, and 92 ll					าพก	- I (I)	6952
				5 lb up at 3-10-8, 29 lb c						PA	
				The design/selection of s						-0.	14.145
others.	,					(-)		1		1 And	ANSA
10) In the	LOAD CASE	(S) section, loads ap	plied to the face of	the truss are noted as fro	ont (F) or back (B).					1 Sel	ENGIN
										11.	JNAL
LOAD CA	SE(S) Stand	dard									rob 21 2021

LOAD CASE(S) Standard

Continued on page 2

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



March 31,2021

Job	Truss	Truss Type	Qty	Ply	Lot 87 W0		
					145442743		
210361	A18	Roof Special Girder	1	1			
					Job Reference (optional)		
Wheeler Lumber, Wave	erly, KS - 66871,		8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Mar 31 10:13:13 2021 Page 2				
ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-eQMpBVaACYIdTgusAqOwoKPEBfQhhTmT4oFOsYzVRzq							

LOAD CASE(S) Standard

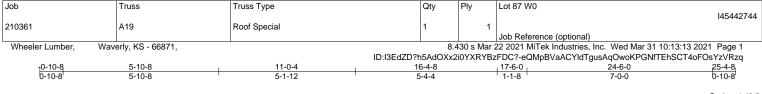
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 9-14=-20

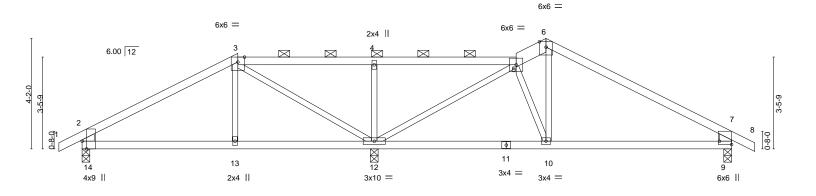
Concentrated Loads (lb)

Vert: 3=-42(F) 13=-210(F) 15=-42(F) 16=-42(F) 17=-42(F) 18=-42(F) 19=-23(F) 20=-23(F) 21=-23(F) 22=-23(F)





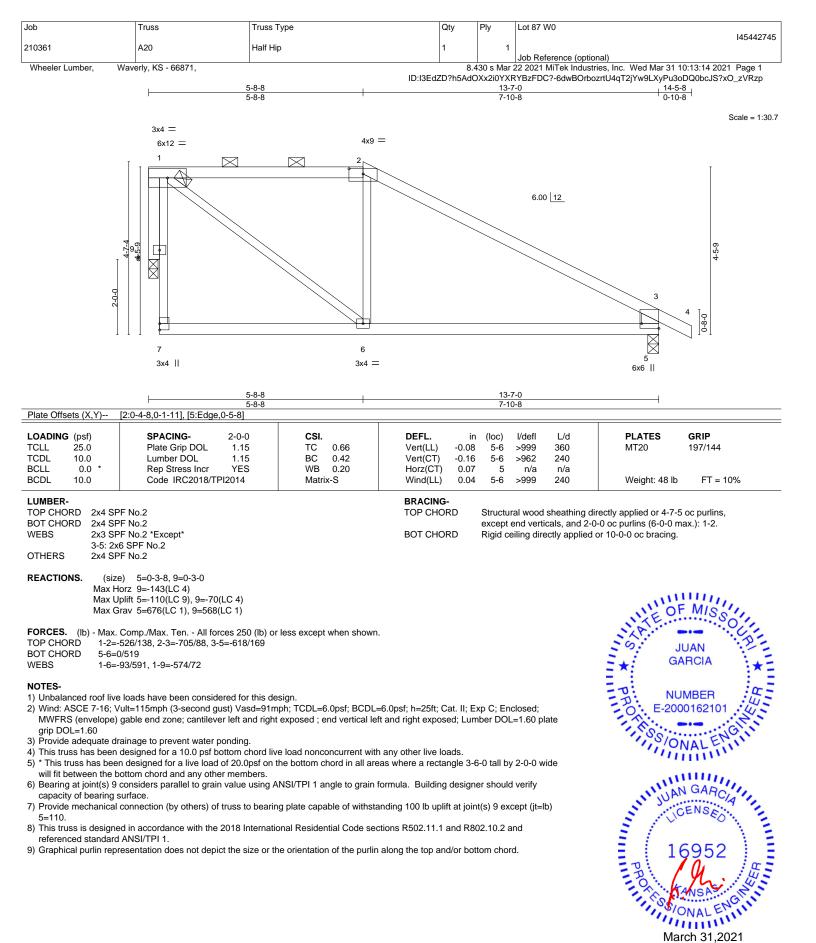
Scale = 1:43.5



5-10-8 5-10-8	<u>11-0-4</u> 5-1-12	<u>17-6-0</u> 6-5-12	24-6-0	
Plate Offsets (X,Y) [9:Edge,0-5-8], [14:0-3-8,Edge]		* * · · <u>-</u>		
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014	CSI. TC 0.51 BC 0.34 WB 0.66 Matrix-S	DEFL. in (loc) I/def Vert(LL) -0.04 9-10 >999 Vert(CT) -0.09 9-10 >999 Horz(CT) 0.02 9 n/r Wind(LL) 0.02 9-10 >999	9 360 MT20 9 240 a n/a	GRIP 197/144 Ib FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2 *Except* 5-6: 2x6 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-14,7-9: 2x6 SPF No.2		except end v	od sheathing directly applied or 6- erticals, and 2-0-0 oc purlins (6-0-1 directly applied or 10-0-0 oc bracir	0 max.): 3-5.
REACTIONS. (size) 14=0-3-8, 12=0-3-8, 9=0-3-8 Max Horz 14=-69(LC 6) Max Uplift 14=-138(LC 8), 12=-123(LC 8) Max Grav 14=531(LC 1), 12=1140(LC 1), 12=1140(LC 1), 13=1140(LC 1), 14=1140(LC 1), 14=1140(L	9=647(LC 1) b) or less except when show 70, 2-14=-481/175, 7-9=-592 =-88/544, 9-10=-54/523		× AL	OF MISSOUTH JUAN GARCIA
 NOTES- 1) Unbalanced roof live loads have been considered for th 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd= MWFRS (envelope) gable end zone; cantilever left and grip DOL=1.60 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom cho 5) * This truss has been designed for a live load of 20.0ps will fit between the bottom chord and any other membei 6) Provide mechanical connection (by others) of truss to b 14=138, 12=123, 9=147. 7) This truss is designed in accordance with the 2018 Inte referenced standard ANSI/TPI 1. 8) Graphical purlin representation does not depict the size 	91mph; TCDL=6.0psf; BCDL right exposed ; end vertical le d live load nonconcurrent wi on the bottom chord in all ar s. earing plate capable of withs national Residential Code se	eft and right exposed; Lumber DOL=1.6(th any other live loads. reas where a rectangle 3-6-0 tall by 2-0-6 tanding 100 lb uplift at joint(s) except (jt= ections R502.11.1 and R802.10.2 and	d; 0 plate 0 wide	NUMBER 2000162101



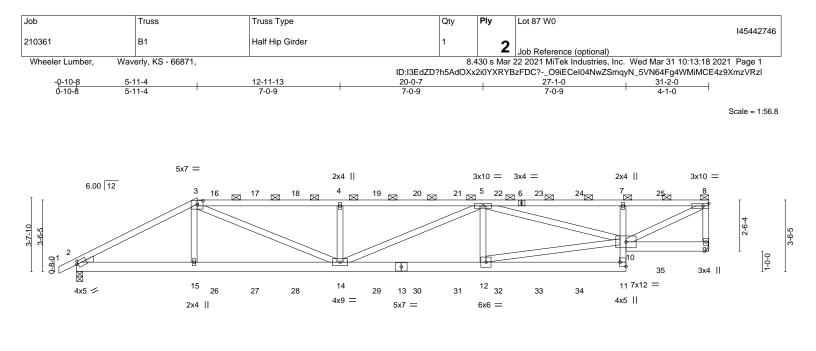
16023 Swingley Ridge Rd Chesterfield, MO 63017



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

March 31,2021



	-11-13	<u>20-0-7</u> 7-0-9	27-1-0	31-2-0
Plate Offsets (X,Y) [2:0-1-0,0-1-12], [3:0-3-8,0-2-3], [1:	••	1-0-3	1-0-3	
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr NO BCDL 10.0 Code IRC2018/TPI2014	CSI. TC 0.76 BC 0.78 WB 0.67 Matrix-S	Vert(LL) -0.22 Vert(CT) -0.39 Horz(CT) 0.06	(loc) l/defl L/d 12-14 >999 360 12-14 >943 240 9 n/a n/a 12-14 >999 240	PLATES GRIP MT20 197/144 Weight: 292 lb FT = 10%
LUMBER- TOP CHORD 2x4 SPF No.2 *Except* 3-6: 2x4 SPF 2100F 1.8E BOT CHORD 2x6 SPF No.2 *Except* 7-11: 2x4 SPF No.2 WEBS 2x4 SPF No.2 WEDGE Left: 2x4 SP No.3		BRACING- TOP CHORD BOT CHORD		rectly applied or 5-2-15 oc purlins,)-0 oc purlins (5-3-15 max.): 3-8. or 10-0-0 oc bracing.
REACTIONS. (size) 9=Mechanical, 2=0-3-8 Max Horz 2=93(LC 5) Max Uplift 9=-251(LC 5), 2=-240(LC 5) Max Grav 9=2784(LC 1), 2=2715(LC 1)				DE OF MISSO
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (l TOP CHORD 2-3=-5119/514, 3-4=-6772/647, 4-5=-676 8-9=-2520/294 BOT CHORD 2-15=-495/4400, 14-15=-497/4369, 12-1 7-10=-702/216 WEBS 3-15=0/691, 3-14=-229/2713, 4-14=-990 10-12=-534/5436, 5-10=-2036/154, 8-10 NOTES- 1) 2-ply truss to be connected together with 10d (0.131"x3 Top chords connected as follows: 2x4 - 1 row at 0-7-0 c	9/646, 5-7=-4328/425, 7-8=-4 4=-585/6272, 11-12=-57/892, 291, 5-14=-95/544, 5-12=-50 452/4793) nails as follows:	4333/407, 10-11=0/290,		JUAN GARCIA PRONUMBER E-2000162101
 Bottom chords connected as follows: 2x6 - 2 rows stage Webs connected as follows: 2x4 - 1 row at 0-9-0 oc. 2) All loads are considered equally applied to all plies, exc ply connections have been provided to distribute only lo 3) Unbalanced roof live loads have been considered for th 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasda MWFRS (envelope); cantilever left and right exposed ; 6 5) Provide adequate drainage to prevent water ponding. 6) This truss has been designed for a 10v psf bottom cho 71 * This truss has been designed for a live load of 20.0psi will fit between the bottom chord and any other member 8) Refer to girder(s) for truss to truss connections. 9) Provide mechanical connection (by others) of truss to b 9=251, 2=240. 	ered at 0-9-0 oc, 2x4 - 1 row ept if noted as front (F) or bac ads noted as (F) or (B), unles s design. 91mph; TCDL=6.0psf; BCDL and vertical left and right expo d live load nonconcurrent witt on the bottom chord in all are s. earing plate capable of withsta	ck (B) face in the LOAD C is otherwise indicated. =6.0psf; h=25ft; Cat. II; E: ssed; Lumber DOL=1.60 p h any other live loads. eas where a rectangle 3-6 anding 100 lb uplift at join	kp C; Enclosed; plate grip DOL=1.60 6-0 tall by 2-0-0 wide t(s) except (jt=lb)	16952 BORNALENOIT
referenced standard ANSI/TPI 1.				March 31,2021
WARNING - Verify design parameters and READ NOTES ON THI Design valid for use only with MITek® connectors. This design is by a truss system. Before use, the building designer must verify the ag building design. Bracing indicated is to prevent buckling of individu is always required for stability and to prevent collapse with possible fabrication, storage, delivery, erection and bracing of trusses and tr Safety Information available from Truss Plate Institute, 2670 Cra	S AND INCLUDED MITEK REFERENCE sed only upon parameters shown, ar plicability of design parameters and al truss web and/or chord members o personal injury and property damage uss systems, see ANSI/TPI	CE PAGE MII-7473 rev. 5/19/2020 di si for an individual building or roperly incorporate this design i inly. Additional temporary and p . For general guidance regardir 1 Quality Criteria, DSB-89 and	BEFORE USE. mponent, not to the overall ermanent bracing g the	16023 Swingley Ridge Rd Chesterfield, MO 63017

Jo	b	Truss	Truss Type	Qty	Ply	Lot 87 W0
						145442746
21	0361	B1	Half Hip Girder	1	2	
						Job Reference (optional)
V	Vheeler Lumber, Wave	erly, KS - 66871,		8.4	130 s Mar 2	22 2021 MiTek Industries, Inc. Wed Mar 31 10:13:18 2021 Page 2

8.430 s Mar 22 2021 Millek Industries, Inc. Wed Mar 31 10:13:18 2021 Page 2 ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-_O9iECeI04NwZSmqyN_5VN64Fg4WMiMCE4z9XmzVRzI

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 133 lb down and 72 lb up at 5-11-4, 114 lb down and 72 lb up at 6-9-0, 109 lb down and 72 lb up at 10-9-0, 109 lb down and 72 lb up at 12-9-0, 109 lb down and 72 lb up at 14-9-0, 109 lb down and 72 lb up at 16-9-0, 109 lb down and 72 lb up at 18-9-0, 109 lb down and 72 lb up at 22-9-0, 109 lb down and 72 lb up at 18-9-0, 109 lb down and 72 lb up at 22-9-0, 109 lb down and 72 lb up at 24-9-0, 109 lb down and 72 lb up at 22-9-0, 109 lb down and 72 lb up at 24-9-0, 109 lb down and 72 lb up at 26-9-0, and 110 lb down and 73 lb up at 28-9-0, and 136 lb down and 67 lb up at 31-0-4 on top chord, and 408 lb down at 116 lb up at 5-11-4, 68 lb down at 6-9-0, 68 lb down at 10-9-0, 68 lb down at 12-9-0, 68 lb down at 14-9-0, 68 lb down at 16-9-0, 68 lb down at 18-9-0, 68 lb down at 22-9-0, and 68 lb down at 24-9-0, and 68 lb down at 26-11-4 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

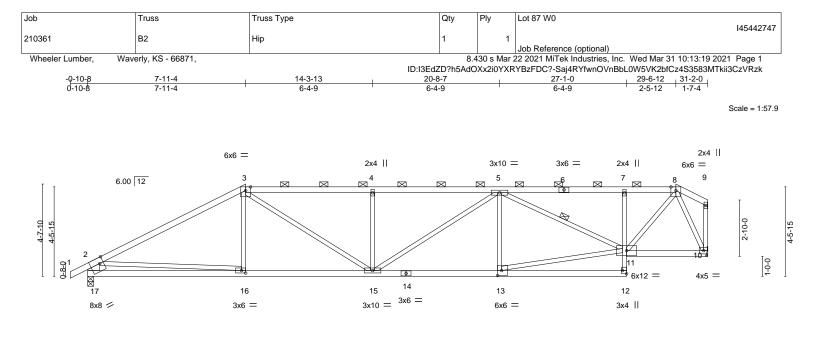
Uniform Loads (plf)

Vert: 1-3=-70, 3-8=-70, 2-11=-20, 9-10=-20

Concentrated Loads (lb)

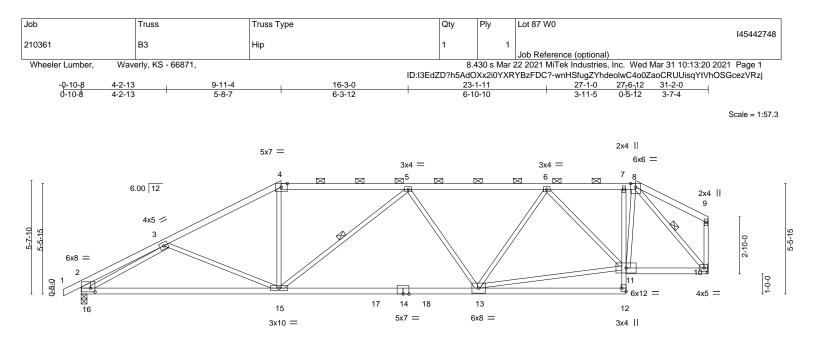
Vert: 3=-109(F) 8=-136(F) 9=-59 11=-52(F) 7=-109(F) 15=-408(F) 14=-52(F) 4=-109(F) 16=-109(F) 17=-109(F) 18=-109(F) 19=-109(F) 20=-109(F) 21=-109(F) 22=-109(F) 23=-109(F) 23=-109(F) 24=-109(F) 25=-110(F) 26=-52(F) 27=-52(F) 28=-52(F) 30=-52(F) 31=-52(F) 32=-52(F) 33=-52(F) 33=-52(F) 33=-52(F) 33=-52(F) 35=-51



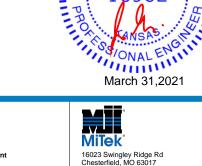


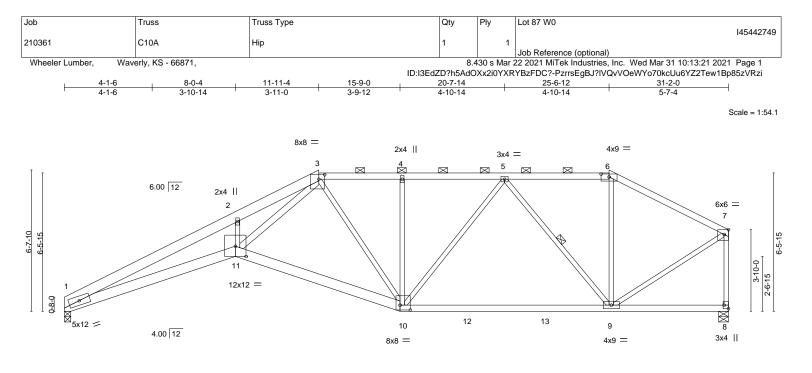
 	7-11-4		14-3-13	20-8-7			27-1-0	31-2-0	
	7-11-4	· · · · · · · · · · · · · · · · · · ·	6-4-9	6-4-9			6-4-9	4-1-0	
Plate Offsets (X,Y)	[12:Edge,0-2-8], [13:0-2-8	,0-3-0], [16:0-2	2-8,0-1-8], [17:0-2-4,Edg	e]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES I2014	CSI. TC 0.96 BC 0.64 WB 0.76 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.16 13-15 -0.31 13-15 0.07 10 0.09 13-15	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 124 lb	GRIP 197/144 FT = 10%
BOT CHORD 2x4 SF 7-12: 2 WEBS 2x3 SF	PF No.2 PF No.2 *Except* 2x3 SPF No.2 PF No.2 *Except* 2x8 SP DSS			BRACING- TOP CHOR BOT CHOR WEBS	D Struct 2-0-0 D Rigid	oc purlins (2	2-8-10 max tly applied	rectly applied, except of .): 3-8. or 10-0-0 oc bracing. 5-11	end verticals, and
Max H Max L	ee) 17=0-3-8, 10=Mechar Horz 17=120(LC 5) Jplift 17=-9(LC 5), 10=-40(L Brav 17=1468(LC 1), 10=13	_C 5)						IN OF	MISS
TOP CHORD 2-3= 2-17 2-17 BOT CHORD 16-1 WEBS 3-15	. Comp./Max. Ten All forc -2262/61, 3-4=-2578/114, 4 =-1395/52 7=-200/921, 15-16=-101/19 =-95/913, 4-15=-504/116, 5 =-77/1569, 2-16=-44/1199,	4-5=-2576/113 906, 13-15=-12 5-15=-20/300,	, 5-7=-1559/87, 7-8=-156 23/2328, 7-11=-398/87, 1 11-13=-127/2226, 5-11=	66/85, 0-11=-47/590				★ GA	JAN RCIA
 Wind: ASCE 7-16; MWFRS (envelope) Provide adequate d This truss has been 	e loads have been conside /ult=115mph (3-second gu ; cantilever left and right ex rainage to prevent water po designed for a 10.0 psf bo	st) Vasd=91mp (posed ; end v ponding. (ttom chord live	oh; TCDL=6.0psf; BCDL ertical left and right expo	sed; Lumber DOL	=1.60 plate gr ids.	ip DOL=1.6		KSS/ON	IAL ENGLIS
 will fit between the b Refer to girder(s) fo Provide mechanical This truss is design referenced standard 		r members. 5. cruss to bearing 2018 Internatio	g plate capable of withsta nal Residential Code se	anding 100 lb uplift ctions R502.11.1 a	at joint(s) 17, nd R802.10.2	10. and	e	PRO 16	GARCIA
9) Grapnicai purlin rep	resentation does not depic	t the size of th	e onentation of the purilr	i along the top and	νοι δοττοπ Ch	Jrd.		111, KSS10	952 NAL ENGINE NAL ENGINE





	9-11-4 9-11-4		-8-5 9-2		27-1-0		<u>31-2-0</u> 4-1-0	
Plate Offsets (X,Y)	[2:0-2-12,0-2-4], [4:0-3-10,Edge], [12:Ed		9-2		7-4-11		4-1-0	
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 0.65 BC 0.98 WB 0.92 Matrix-S	Vert(LL) -0.2 Vert(CT) -0.4 Horz(CT) 0.0	in (loc) 28 13-15 29 13-15 28 10 27 13-15	>999 36 >761 24 n/a n	40 /a	PLATES MT20 Weight: 127 lb	GRIP 197/144 FT = 10%
WEBS 2x3 SF		5.2	BRACING- TOP CHORD BOT CHORD WEBS	except Rigid c 2-2-0 c	end verticals	, and 2-0- applied o -15.	ectly applied or 2-10-1 0 oc purlins (3-8-5 ma r 10-0-0 oc bracing, l -15, 8-10	x.): 4-8.
Max H Max U Max G FORCES. (Ib) - Max. TOP CHORD 2-3=- 2-16= BOT CHORD 15-16 WEBS 4-15= 8-11=	e) 16=0-3-8, 10=Mechanical lorz 16=130(LC 5) lplift 10=-8(LC 4) irav 16=1509(LC 2), 10=1444(LC 2) Comp./Max. Ten All forces 250 (lb) or -683/0, 3-4=-2211/38, 4-5=-1908/50, 5-6 =-465/11 6=-133/1997, 13-15=-117/2168, 10-11=- =0/628, 5-15=-502/122, 5-13=-351/93, 6 =-29/1056, 3-16=-1741/86, 8-10=-1630/4	=-2022/48, 6-7=-1200/55 43/1066 -13=0/396, 11-13=-99/17	, 7-8=-1205/54,				GAI	MISSOURAN ARCIA
 Wind: ASCE 7-16; W MWFRS (envelope) Provide adequate di 4) This truss has been 5) * This truss has bee will fit between the b Refer to girder(s) for 7) Provide mechanical This truss is designer referenced standard 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m ; cantilever left and right exposed ; end v 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 ootom chord and any other members, w r truss to truss connections. connection (by others) of truss to bearin ed in accordance with the 2018 Internation I ANSI/TPI 1. resentation does not depict the size or th	ph; TCDL=6.0psf; BCDL= vertical left and right expo e load nonconcurrent with the bottom chord in all are ith BCDL = 10.0psf. ng plate capable of withsta onal Residential Code sec	sed; Lumber DOL=1.60 n any other live loads. was where a rectangle 3 anding 100 lb uplift at jc ctions R502.11.1 and R) plate grip 3-6-0 tall b 9-6-0 tall b 9-6-0 tall b 9-0-10.2 s	> DOL=1.60 y 2-0-0 wide and		JOIN LICE	GARCIA 952



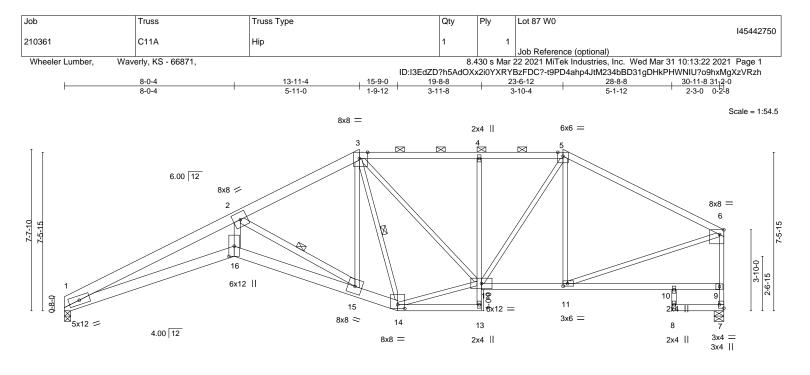


	8-0-4 8-0-4	15-9-0 7-8-12		25-6-12 9-9-12		<u>31-2-0</u> 5-7-4	
Plate Offsets (X,Y)) [3:0-3-4,0-2-8], [6:0-4-8,0-1-11], [7:0-	2-8,Edge], [8:Edge,0-2-8], [1	10:0-5-12,0-2-12], [11:0-	6-0,0-5-13]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.63 BC 0.76 WB 0.71 Matrix-S	Vert(LL) -0.44		9 360 2 240 a n/a	PLATES MT20 Weight: 137 lb	GRIP 197/144 FT = 10%
BOT CHORD 2x 10 WEBS 2x	4 SPF No.2 *Except* 3: 2x6 SPF 1650F 1.4E 6 SPF 1650F 1.4E *Except* 0-11: 2x6 SPF No.2, 8-10: 2x4 SPF 2100F 3 SPF No.2 *Except* 11: 2x4 SPF 2100F 1.8E	1.8E	BRACING- TOP CHORD BOT CHORD WEBS	except end v	erticals, and 2-0 directly applied	rectly applied or 2-9-3)-0 oc purlins (4-1-14 n or 10-0-0 oc bracing. 5-9	
М	(size) 1=0-3-8, 8=0-5-8 lax Horz 1=184(LC 7) lax Uplift 1=-144(LC 8), 8=-109(LC 4) lax Grav 1=1448(LC 2), 8=1466(LC 2)					IN TE OF	MISSO
TOP CHORD 1 BOT CHORD 1 WEBS 2	Max. Comp./Max. Ten All forces 250 (lb) 1-2=-6015/678, 2-3=-5846/750, 3-4=-1874 6-7=-1309/152, 7-8=-1427/126 1-11=-759/5532, 10-11=-359/2297, 9-10=- 2-11=-182/271, 3-11=-586/4139, 3-10=-55 5-9=-876/209, 6-9=0/334, 7-9=-123/1324	/241, 4-5=-1873/240, 5-6=-1 264/1622	115/157,			₩ GA	JAN RCIA MBER 0162101
1) Unbalanced roc 2) Wind: ASCE 7-	of live loads have been considered for this 16; Vult=115mph (3-second gust) Vasd=9 ope) gable end zone; cantilever left and rig	1mph; TCDL=6.0psf; BCDL=				ESSION	VALENGILL
 4) This truss has b 5) * This truss has will fit between t 6) Bearing at joint(capacity of bear 	ate drainage to prevent water ponding. been designed for a 10.0 psf bottom chord been designed for a live load of 20.0psf o the bottom chord and any other members, (s) 1 considers parallel to grain value using ring surface. nical connection (by others) of truss to bea	n the bottom chord in all are with BCDL = 10.0psf. ANSI/TPI 1 angle to grain t	as where a rectangle 3- iormula. Building design	ner should verif	/	PR 16	GARCIA
1=144, 8=109.8) This truss is des referenced stan	signed in accordance with the 2018 International Confection (by Others) of truss to be adard ANSI/TPI 1.	ational Residential Code sec	ctions R502.11.1 and R8	02.10.2 and	ιu)	PROFILITION SIG	NALENOIL

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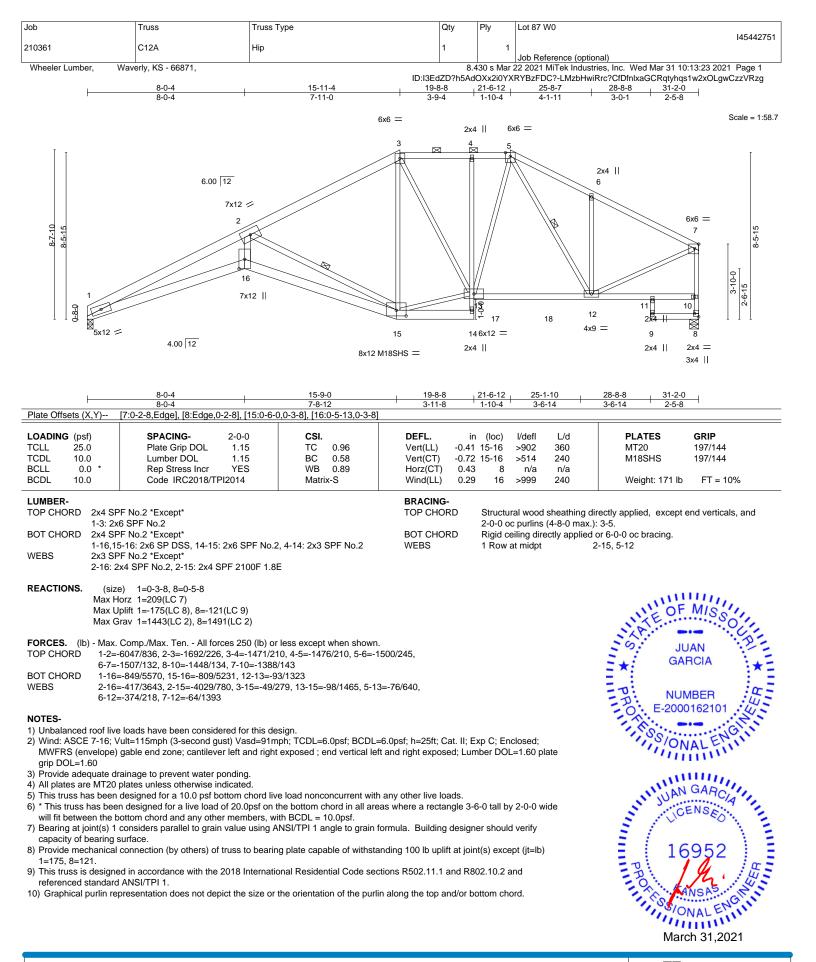


March 31,2021



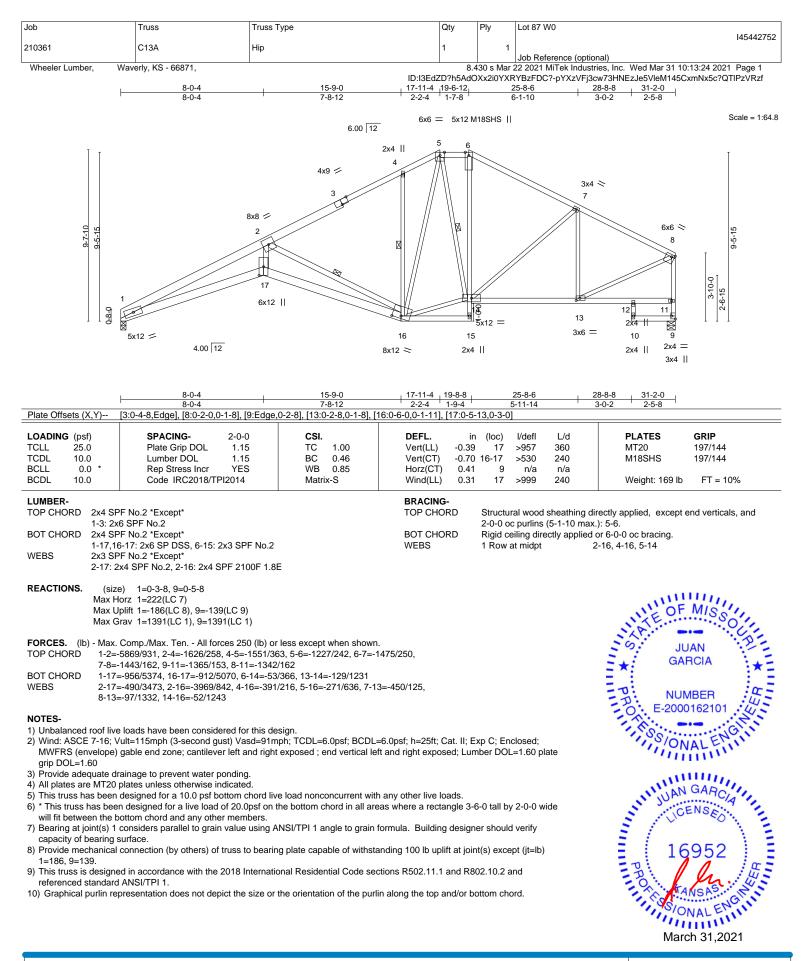
⊢		8-0-4	<u>13-11-4</u> 5-11-0	15-9-0	<u>19-8-8</u> 3-11-8		23-6-12 3-10-4		28-8-8	<u>31-2-0</u> 2-5-8
Plate Offse	ts (X,Y)	[3:0-4-10,Edge], [6:0-2-8,Edge], [7:E	• · · •			5-13,0-3			5-1-12	2-5-8
LOADING TCLL TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 * 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.82 BC 0.47 WB 0.82 Matrix-S		DEFL. Vert(LL) -0.: Vert(CT) -0.0 Horz(CT) 0.: Wind(LL) 0.:	66 10 10	6 >999 6 >558 7 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 163	GRIP 197/144 3 lb FT = 10%
LUMBER- TOP CHOF BOT CHOF WEBS	3-5: 2x RD 2x4 SF 1-16,14 2x3 SF	2F 1650F 1.4E *Except* 44 SPF No.2, 5-6: 2x4 SPF 2100F 1.8 2F No.2 *Except* 4-16: 2x6 SP DSS, 4-13: 2x3 SPF No 2F No.2 *Except* -15: 2x4 SPF No.2			BRACING- TOP CHORD BOT CHORD WEBS	exce Rigic	pt end verti	cals, and 2-0 ectly applied	rectly applied or 2 0-0 oc purlins (3-11- or 10-0-0 oc bracin 2-15, 3-14	10-4 oc purlins, 6 max.): 3-5.
REACTION	Max H Max U	e) 1=0-3-8, 7=0-5-8 lorz 1=197(LC 7) Jplift 1=-161(LC 8), 7=-100(LC 9) Grav 1=1391(LC 1), 7=1391(LC 1)							INTE.	F MISSO
FORCES. TOP CHOF	RD 1-2≕	Comp./Max. Ten All forces 250 (lb -5795/706, 2-31951/234, 3-4=-163 -1360/113, 6-91316/137			25,					
BOT CHOF WEBS	RD 1-16: 2-16:	=-707/5273, 15-16=-668/4955, 14-15 =-342/3326, 2-15=-3588/638, 3-15=- =-91/403, 5-12=-146/714, 5-11=-281,	121/1099, 3-14=-937/1	,						IUMBER 000162101
2) Wind: A	SCE 7-16; \ 5 (envelope)	e loads have been considered for this /ult=115mph (3-second gust) Vasd= gable end zone; cantilever left and r	1mph; TCDL=6.0psf;					ate	THE SSIC	DNAL ENGINI
4) This trus 5) * This tru	ss has been uss has bee	rainage to prevent water ponding. designed for a 10.0 psf bottom chord on designed for a live load of 20.0psf pottom chord and any other members	on the bottom chord in			3-6-0 tal	l by 2-0-0 w	ide	PRO	AN GARCIA
6) Bearing		considers parallel to grain value usir		grain formu	la. Building desi	gner sho	ould verify			CENSEO
1=161.		connection (by others) of truss to be				. ,		b)		16952
referenc	ed standard	ed in accordance with the 2018 Interr I ANSI/TPI 1. resentation does not depict the size (TIT'S	VONAL ENGLIS
									N	larch 31,2021



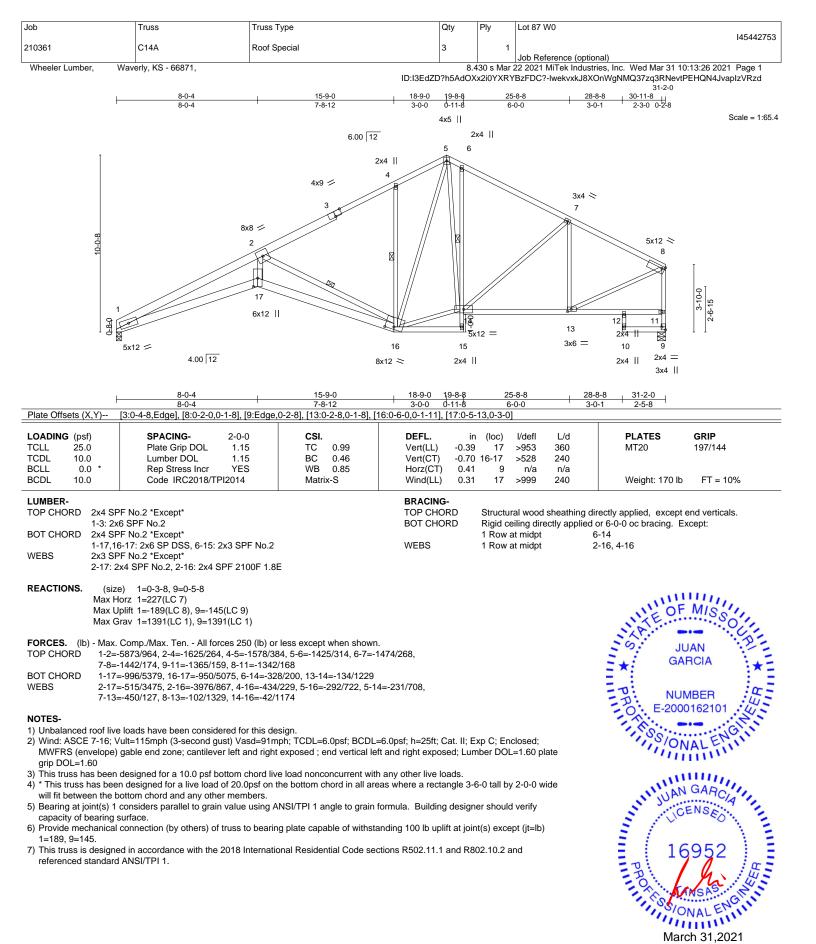


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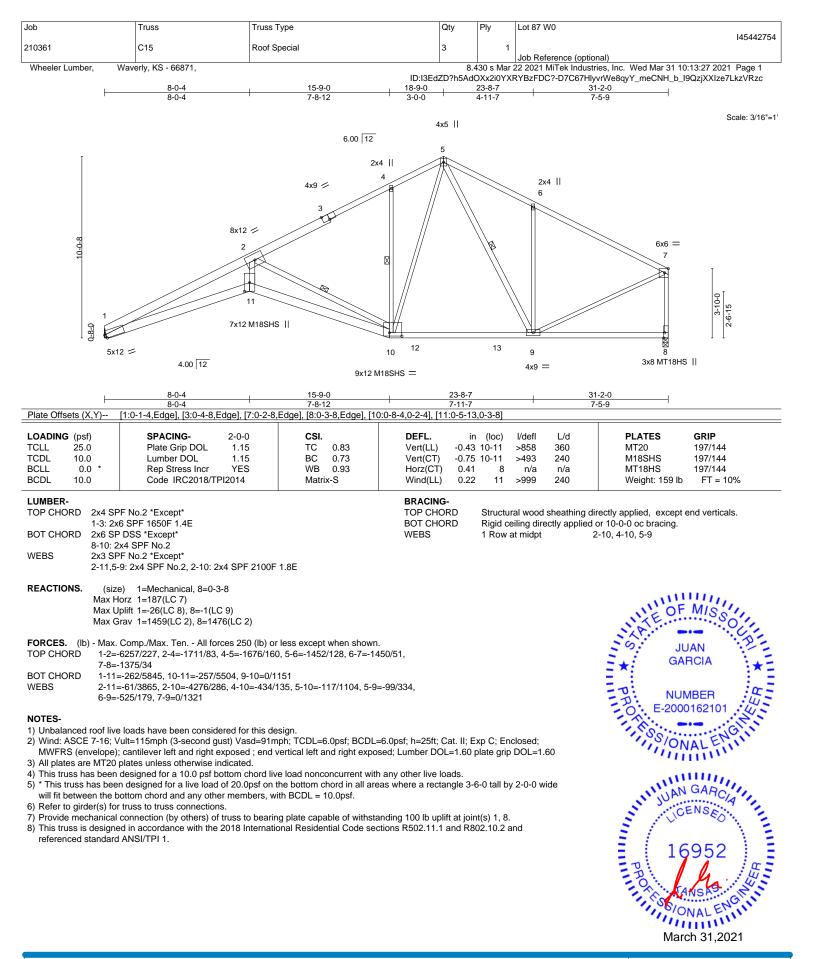
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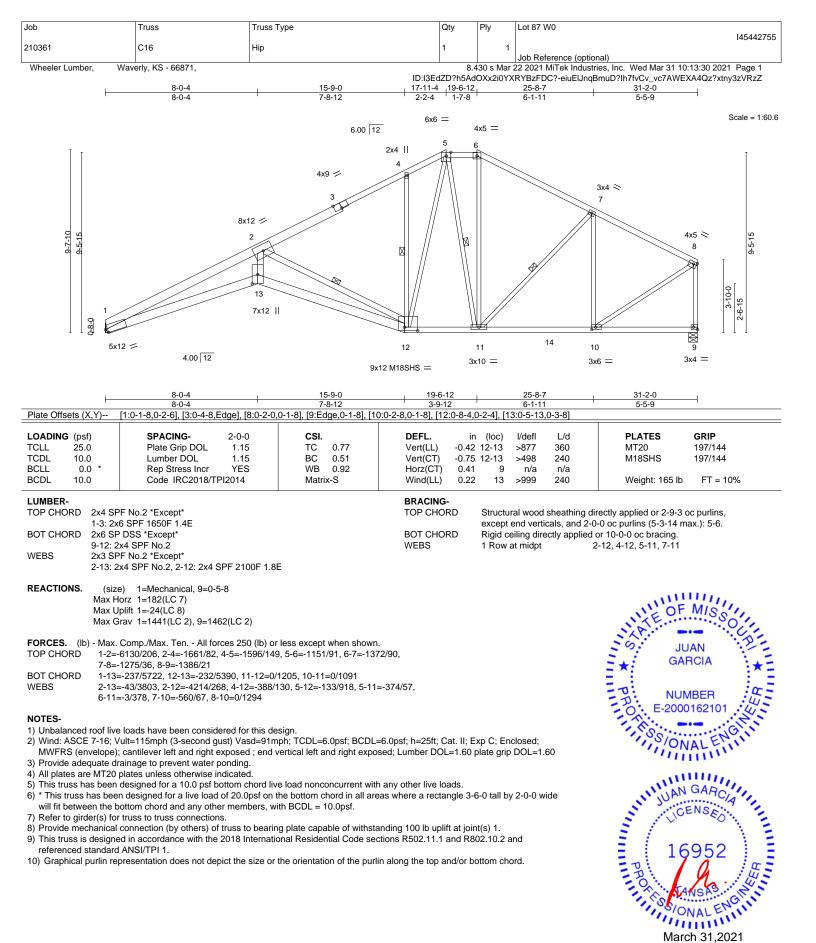




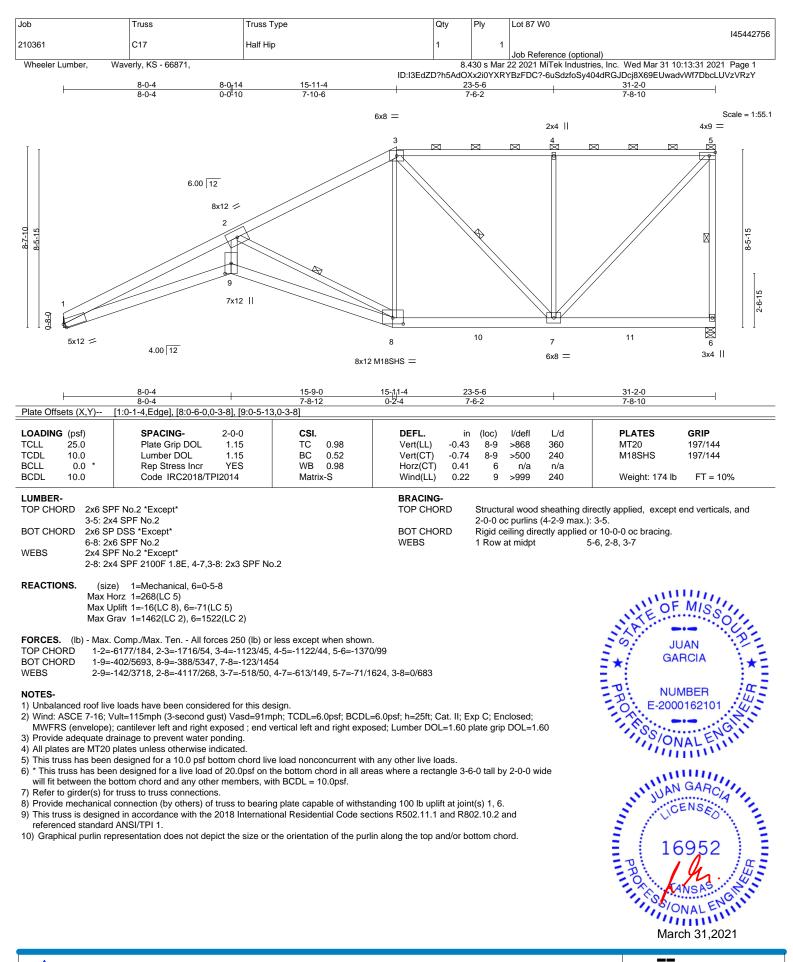


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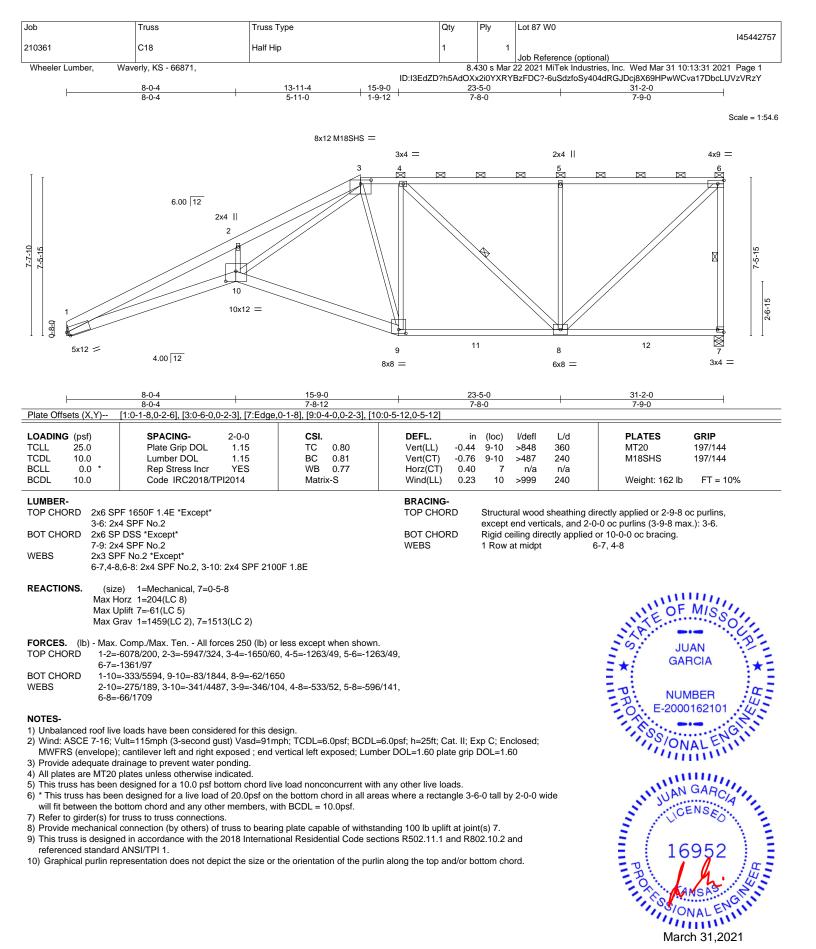




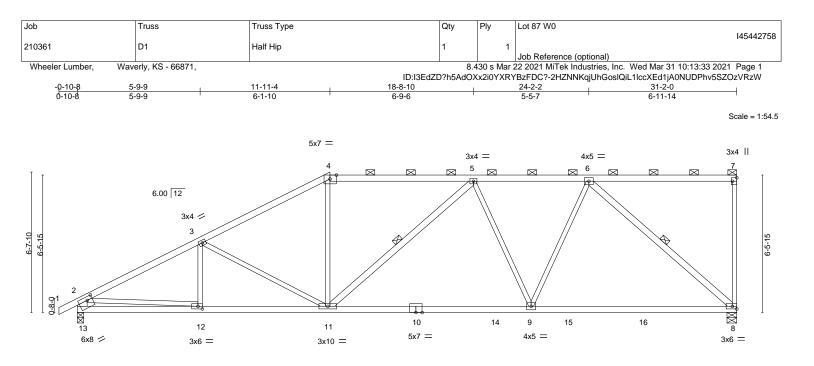


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L	5-9-9	11-11-4	21-5-6		1	31-2-0	
	5-9-9	6-1-10	9-6-2			9-8-10	
Plate Offsets (X,Y)	[4:0-3-10,Edge], [7:Edge,0-2-8]	, [12:0-2-8,0-1-8], [13:0-3-0,0-2-0]				
LOADING (psf)	SPACING- 2-0-		DEFL.	in (loc) I/d	defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.1	5 TC 0.79	Vert(LL) -0.	26 8-9 >9	999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.1		Vert(CT) -0.4	46 8-9 >8	300 240		
BCLL 0.0 *	Rep Stress Incr YE	S WB 0.72	Horz(CT) 0.	07 8	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.	07 9-11 >9	999 240	Weight: 127 lb	FT = 10%
	PF No.2		BRACING- TOP CHORD			rectly applied or 3-3-10	
	PF No.2 *Except*					-0 oc purlins (3-1-4 ma	x.): 4-7.
	2x4 SPF 2100F 1.8E		BOT CHORD WEBS	0	0 7 11	or 9-8-7 oc bracing. i-11. 6-8	
	PF No.2 *Except* -8: 2x4 SPF No.2, 2-13: 2x6 SPI	- No 2	WEBS	1 Row at n	מט חומףנ	-11, 0-8	
Max U	e) 8=0-5-8, 13=0-3-8 lorz 13=266(LC 5) plift 8=-250(LC 5), 13=-167(LC irav 8=1499(LC 2), 13=1525(LC	,				NITE OF	MISS
FORCES. (lb) - Max.	Comp./Max. Ten All forces 25	0 (lb) or less except when showr	۱.			SAP	
TOP CHORD 2-3=	2430/232, 3-4=-2053/221, 4-5=	-1765/221, 5-6=-1671/215, 2-13=	-1417/198			- 0: 11	IAN
BOT CHORD 12-13	3=-281/586, 11-12=-361/2105, 9	-11=-358/1814, 8-9=-288/1324					
WEBS 3-11:	-411/197, 4-11=0/525, 5-9=-44	5/162, 6-9=-11/862, 6-8=-1758/3	17, 2-12=-81/1527			⊆★: GAI	
/	e loads have been considered fo	5				- 2.	ABER 4
		Isd=91mph; TCDL=6.0psf; BCDL and right exposed ; end vertical le				O E-2000	162101

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, with BCDL = 10.0psf.

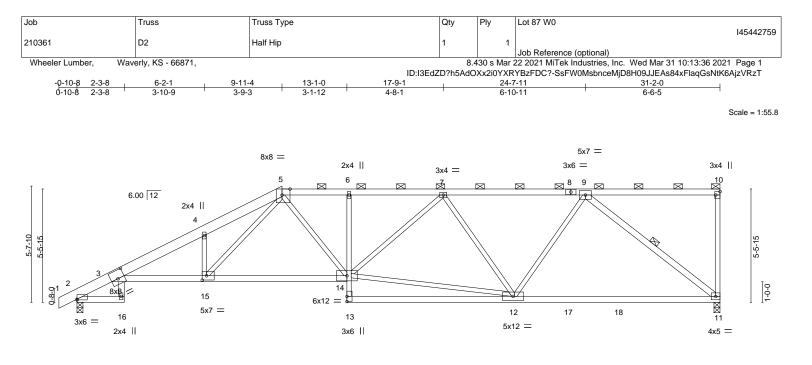
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=250, 13=167.

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.



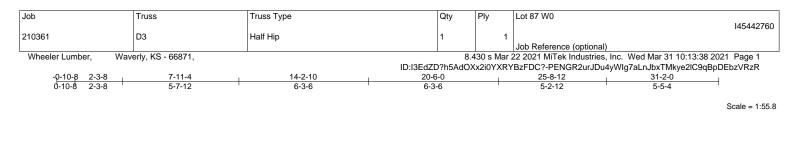


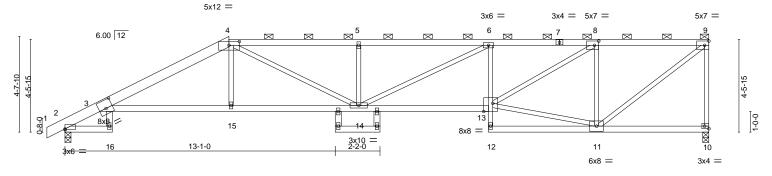


<u>2-3-8</u> 2-3-8	<u>6-2-1 9-11-4</u> 3-10-9 3-9-3	+ <u>13-1-0</u> 3-1-12	21-2-7 8-1-7			31-2-0 9-11-9	
Plate Offsets (X,Y)	[2:0-0-0,0-0-7], [3:0-4-0,0-4-12], [5:0-4-1	0,Edge], [10:Edge,0-2-8]], [15:0-2-8,0-2-8]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.80 BC 0.65 WB 0.77 Matrix-S	Vert(LL) -0.31 Vert(CT) -0.57 Horz(CT) 0.32	11-12 : 11-12 : 11	l/defl L/d >999 360 >649 240 n/a n/a >999 240	PLATES MT20 Weight: 138 lb	GRIP 197/144 FT = 10%
BOT CHORD 2x4 S 3-14: 11-13 WEBS 2x3 S	x6 SP 2400F 2.0E	2	BRACING- TOP CHORD BOT CHORD WEBS	except er Rigid cei	nd verticals, and 2 ling directly applie bracing: 2-16.	directly applied or 3-4-5 (-0-0 oc purlins (3-4-13 m d or 10-0-0 oc bracing, 9-11	ax.): 5-10.
Max I Max I	ze) 11=0-3-8, 2=0-3-8 Horz 2=220(LC 5) Jplift 11=-253(LC 5), 2=-141(LC 8) Grav 11=1459(LC 2), 2=1515(LC 2)					NXATE	MISSO
TOP CHORD 2-3= 7-9= 80T CHORD 3-15 WEBS 5-14 9-11	. Comp./Max. Ten All forces 250 (lb) or 872/75, 3-4=-3424/398, 4-5=-3648/501, 1924/264 =-542/3191, 14-15=-442/2261, 6-14=-26 =-131/632, 12-14=-427/2193, 7-14=-42/3 =-1823/364, 4-15=-805/251, 5-15=-232/1	5-6=-2601/403, 6-7=-258 2/108, 11-12=-326/1438 371, 7-12=-781/234, 9-12	83/402,			★ GA	MBER D162101
2) Wind: ASCE 7-16;	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					IAL ENGIN
 4) This truss has beer 5) * This truss has beer will fit between the 6) Provide mechanica 	Irainage to prevent water ponding. In designed for a 10.0 psf bottom chord liven an designed for a live load of 20.0psf on t bottom chord and any other members, wi I connection (by others) of truss to bearing	he bottom chord in all are th BCDL = 10.0psf.	eas where a rectangle 3-0	,		PR 16	GARCIA
referenced standar	ed in accordance with the 2018 Internation d ANSI/TPI 1. presentation does not depict the size or the					PROKESSO	952
						Mare	ch 31,2021

- pnnection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) ϵ 11=253. 2=141.
- 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.



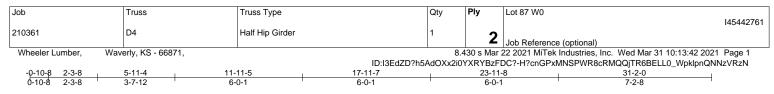




	2-3-8 7-11-4	14-2-10	20-6-0	25-8-12	31-2-0	
	2-3-8 5-7-12	6-3-6	6-3-6	5-2-12	5-5-4	
Plate Offsets (X,	<u>,Y)</u> [2:0-0-0,0-0-7], [3:0-4-0,0-4-12], [4:0-6-0,0-2-3], [8:0-2-8,0-2-8],	[10:Edge,0-1-8], [13:0-5-4,	Edge]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr YE	5 TC 0.82 5 BC 0.63 S WB 0.67	Vert(LL) -0.34 Vert(CT) -0.64 Horz(CT) 0.40) MT20	GRIP 197/144 FT = 10%
BOT CHORD	2x4 SPF No.2 *Except* 1-4: 2x6 SP 2400F 2.0E 2x4 SPF No.2 *Except* 3-13: 2x4 SPF 2100F 1.8E, 6-12: 2x3 2x3 SPF No.2 *Except* 3-16,17-19,18-20: 2x4 SPF No.2	SPF No.2	BOT CHORD	except end verticals, a		ax.): 4-9.
	(size) 10=0-3-8, 2=0-3-8 Max Horz 2=178(LC 5) Max Uplift 10=-256(LC 5), 2=-141(LC Max Grav 10=1391(LC 1), 2=1474(L				INTE OF	MISSO
FORCES. (Ib) TOP CHORD	- Max. Comp./Max. Ten All forces 2 2-3=-816/91, 3-4=-2898/428, 4-5=-3 8-9=-1513/286, 9-10=-1341/277	405/592, 5-6=-3405/592, 6-8=-31	196/568,			JAN RCIA
BOT CHORD WEBS	3-15=-498/2622, 14-15=-496/2628, 4-15=0/295, 4-14=-259/1004, 5-14= 8-11=-1397/363, 9-11=-347/1908				· · · ·	MBER 0162101
NOTES-						
2) Wind: ASCE	roof live loads have been considered f 7-16; Vult=115mph (3-second gust) V velope) gable end zone; cantilever left 50	asd=91mph; TCDL=6.0psf; BCDI			SSION	VALENGII
3) Provide adeq	uate drainage to prevent water pondir					ALLE.
	2x4 MT20 unless otherwise indicated				111.00	GARO
	s been designed for a 10.0 psf bottom			0 toll by 2.0.0 wide	IN JUAN	
	as been designed for a live load of 20 on the bottom chord and any other me		reas where a rectangle 3-6	-0 tall by 2-0-0 wide	N	ENSE
	nanical connection (by others) of truss		tanding 100 lb uplift at joint	s(s) except (jt=lb)	JUAN LC	
referenced st	designed in accordance with the 2018 andard ANSI/TPI 1.					5952
Graphical pur	rlin representation does not depict the	size or the orientation of the purl	in along the top and/or bott	om chord.	EP	

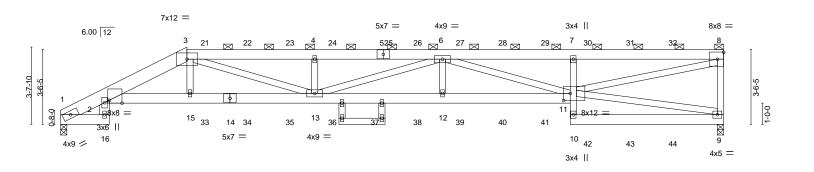


MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



Scale = 1:54.2

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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	11-11-5 6-0-1	17-11-7 6-0-1	<u>23-11-8</u> 6-0-1		<u>31-2-0</u> 7-2-8	
Plate Offsets (X,Y) [2:0-7-2,Edge], [11:0-3-12		0-0-1	0-0-1		7-2-0	
LOADING (psf) SPACING- TCLL 25.0 Plate Grip DOL TCDL 10.0 Lumber DOL BCLL 0.0 * Rep Stress Incr BCDL 10.0 Code IRC2018/TP	2-0-0 CSI. 1.15 TC 0.70 1.15 BC 0.47 NO WB 0.89 1/2014 Matrix-S	Vert(LL) -0.3 Vert(CT) -0.6 Horz(CT) 0.2	in (loc) l/defl 3 12-13 >999 2 12-13 >602 6 9 n/a 3 12-13 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 406 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x6 SP 2400F 2.0E *Except* 1-3: 2x8 SP DSS BOT CHORD 2x6 SP 2400F 2.0E *Except* 7-10,17-18: 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 2-16: 2x6 SPF No.2		BRACING- TOP CHORD BOT CHORD	except end vert	icals, and 2-0	rectly applied or 6-0-0 (-0 oc purlins (6-0-0 ma or 10-0-0 oc bracing.	
REACTIONS. (size) 1=0-3-8, 9=0-3-8 Max Horz 1=128(LC 7) Max Uplift 1=-223(LC 5), 9=-279 Max Grav 1=2697(LC 1), 9=282					INTE OF	MISSO
7-8=-7050/711, 8-9=-2578/371 BOT CHORD 2-15=-771/7150, 13-15=-772/72 7-11=-850/313, 9-10=-13/436	, 3-4=-10021/811, 4-6=-10021/811, (216, 12-13=-887/10190, 11-12=-887 -13=-147/3059, 4-13=-642/239, 6-12	6-7=-7254/714, 7/10190, 10-11=0/267,			★ GA	MBER 0162101
 NOTES- 1) 2-ply truss to be connected together with 10d (Top chords connected as follows: 2x8 - 2 rows Bottom chords connected as follows: 2x6 - 2 row Webs connected as follows: 2x6 - 2 row stagg 2) All loads are considered equally applied to all ply connections have been provided to distribut 3) Unbalanced roof live loads have been conside 4) Wind: ASCE 7-16; Vult=115mph (3-second gu MWFRS (envelope) gable end zone; cantileve grip DOL=1.60 5) Provide adequate drainage to prevent water pre 6) All plates are 2x4 MT20 unless otherwise indice 7) This truss has been designed for a 10.0 psf bot will fit between the bottom chord and any other 9) Provide mechanical connection (by others) of the 1=223, 9=279. 10) This truss is designed in accordance with the 	s staggered at 0-9-0 oc, 2x6 - 2 rows ows staggered at 0-9-0 oc, 2x4 - 1 ro gered at 0-9-0 oc, 2x4 - 1 row at 0-9 plies, except if noted as front (F) or t ite only loads noted as (F) or (B), un ared for this design. Ist) Vasd=91mph; TCDL=6.0psf; BCI r left and right exposed ; end vertica onding. cated. Dttom chord live load nonconcurrent t of 20.0psf on the bottom chord in all r members. truss to bearing plate capable of with	ow at 0-9-0 oc. I-0 oc. back (B) face in the LOAD i less otherwise indicated. DL=6.0psf; h=25ft; Cat. II; I I left and right exposed; Lu with any other live loads. areas where a rectangle 3 hstanding 100 lb uplift at joi	CASE(S) section. Exp C; Enclosed; mber DOL=1.60 p -6-0 tall by 2-0-0 v int(s) except (jt=lb)	Ply to late vide	PROPERTY OF	GARCIA ENSED 952

lah	Truco			Dhy	L at 97 W/0			
Job	Truss	Truss Type	Qty	Ply	Lot 87 W0	145442761		
210361	D4	Half Hip Girder	1	2	Job Reference (optional)			
Wheeler Lumber, Wav								
 ID:13Ed2D /15Ad0X2/017K192FDC /-H?chGPXMINSPWR8cRMQQ [1R6BELL0_wpkiphQNN2VR2N ID:13Ed2D /15Ad0X2/017K192FDC /-H?chGPXMINSPWR8cRMQQ [1R6BELL0_wpkiphQNN2VR2N Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss. Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 55 lb up at 5-11-4, 109 lb down and 55 lb up at 6-9-0, 111 lb down and 55 lb up at 18-9-0, 111 lb down and 55 lb up at 12-9-0, 111 lb down and 55 lb up at 14-9-0, 116 lb down and 67 lb up at 12-9-0, 116 lb down and 67 lb up at 24-9-0, 116 lb down and 67 lb up at 26-9-0, and 116 lb down and 67 lb up at 28-9-0, and 135 lb down at 10-9-0, 73 lb down at 12-9-0, 68 lb down at 24-9-0, 68 lb down at 24-9-0, 68 lb down at 24-9-0, and 68 lb down at 28-9-0, and 83 lb down at 31-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. Filler applied to ply: 1(Front) 								
LOAD CASE(S) Standard								
 Dead + Roof Live (balar Uniform Loads (plf) 	nced): Lumber Increase=1.15	6, Plate Increase=1.15						
Vert: 1-3=-70, 3 Concentrated Loads (Ib	3-8=-70, 1-16=-20, 2-11=-20,	9-10=-20						
Vert: 3=-94(B)	, 8=-135(B) 9=-59(B) 15=-447				B) 27=-110(B) 28=-110(B) 29=-110(B) 30=-109(B)			
	=-109(B) 33=-73(B) 34=-73(B (balanced): Lumber Increase	b) 35=-73(B) 36=-73(B) 37=-115(B) 38=-5 =1.15, Plate Increase=1.15	51 39=-51 40=-51	41=-51 4	42=-52(B) 43=-52(B) 44=-52(B)			
Uniform Loads (plf) Vert: 1-3=-58.3	3-8=-58, 1-16=-20, 2-11=-20,	9-10=-20						
Concentrated Loads (Ib))							
31=-91(B) 32=-	-91(B) 33=-65(B) 34=-65(B) 3	35=-65(B) 36=-65(B) 37=-115(B) 38=-48) 27=-92(B) 28=-92(B) 29=-92(B) 30=-91(B) =-48(B) 43=-48(B) 44=-48(B)			
 Dead + Uninhabitable A Uniform Loads (plf) 	3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)							
Vert: 1-3=-20, 3 Concentrated Loads (Ib	Vert: 1-3=-20, 3-8=-20, 1-16=-40, 2-11=-40, 9-10=-40							
Vert: 3=-47(B)	, 8=-49(B) 9=-83(B) 15=-298(E				27=-42(B) 28=-42(B) 29=-42(B) 30=-42(B) 31=-42(B) 44 - 69(D)	(B)		
		36=-73(B) 37=-115(B) 38=-68 39=-68 40= er Increase=1.60, Plate Increase=1.60	=-68 41=-68 42=-6	08(B) 43=	=-68(B) 44=-68(B)			
Uniform Loads (plf) Vert: 1-3=0. 3-8	8=29, 1-16=-12, 2-11=-12, 9-	10=-12						
Horz: 1-3=-12,	8-9=22							
	B=40(B) 9=-27(B) 15=109(B)				B) 28=30(B) 29=30(B) 30=29(B) 31=29(B) 32=29(B)		
		37=-115(B) 38=-22 39=-22 40=-22 41=-22 ber Increase=1.60, Plate Increase=1.60	2 42=-22(B) 43=-2	22(B) 44=	=-22(B)			
Uniform Loads (plf)	-8=29, 1-16=-12, 2-11=-12, 9	-1012						
Horz: 1-3=-25,	8-9=-17	-1012						
Concentrated Loads (Ib) Vert: 3=25(B) 8	,	21=19(B) 22=18(B) 23=18(B) 24=18(B) 2	25=18(B) 26=30(E	3) 27=30(B) 28=30(B) 29=30(B) 30=29(B) 31=29(B) 32=29(B)		
	Vert: 3=25(B) 8=40(B) 9=-27(B) 15=109(B) 21=19(B) 22=18(B) 23=18(B) 24=18(B) 25=18(B) 26=30(B) 27=30(B) 28=30(B) 29=30(B) 30=29(B) 31=29(B) 32=29(B) 33=-26(B) 34=-26(B) 35=-26(B) 35=-26(B) 38=-22 39=-22 40=-22 41=-22 42=-22(B) 43=-22(B) 44=-22(B) 44=-22(B) 44=-22(B) 45=-22(B) 44=-22(B) 45=-22(B) 45=-20(B)							
Uniform Loads (plf)								
Vert: 1-3=-20, 3 Horz: 1-3=-0, 8	3-8=9, 1-16=-20, 2-11=-20, 9 -9=10	-10=-20						
Concentrated Loads (lb)		21=40(B) 22=38(B) 23=38(B) 24=38(B) 2	25-38(B) 26-50(F	8) 27-50(B) 28-50(B)			
29=50(B) 30=4	9(B) 31=49(B) 32=49(B) 33=	-18(B) 34=-18(B) 35=-18(B) 36=-18(B) 3						
	(B) 43=-14(B) 44=-14(B) nd (Neg. Internal) Right: Lum	ber Increase=1.60, Plate Increase=1.60						
Uniform Loads (plf) Vert: 1-3=-7 3-	-8=9 1-16=-20 2-11=-20 9-1	0=-20						
Horz: 1-3=-13,	Vert: 1-3=-7, 3-8=9, 1-16=-20, 2-11=-20, 9-10=-20 Horz: 1-3=-13, 8-9=-28							
Concentrated Loads (Ib) Vert: 3=45(B) 8	,	21=39(B) 22=38(B) 23=38(B) 24=38(B) 2	25=38(B) 26=50(E	3) 27=50(B) 28=50(B)			
()	29=50(B) 30=49(B) 31=49(B) 32=49(B) 33=-18(B) 34=-18(B) 35=-18(B) 36=-18(B) 37=-115(B) 38=-14 39=-14 40=-14							
41=-14 42=-14(B) 43=-14(B) 44=-14(B) 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60								
Uniform Loads (plf) Vert: 1-3=29, 3-8=11, 1-16=-12, 2-11=-12, 9-10=-12								
· · · · · · · · · · · · · · · · · · ·	Horz: 1-3=-41, 8-9=20							
Vert: 3=27(B) 8	Concentrated Loads (lb) Vert: 3=27(B) 8=51(B) 9=-27(B) 15=109(B) 21=34(B) 22=36(B) 23=36(B) 24=36(B) 25=36(B) 26=48(B) 27=48(B) 28=48(B)							
29=48(B) 30=47(B) 31=47(B) 32=47(B) 33=-26(B) 34=-26(B) 35=-26(B) 36=-26(B) 37=-115(B) 38=-22 39=-22 40=-22 40=-22 41=-22 (B) 44=-22(B)								
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60								
	-8=11, 1-16=-12, 2-11=-12, 9	-10=-12						
Horz: 1-3=-23,	8-9=-14							



Job	Truss	Truss Type	Qty	Ply	Lot 87 W0	145442761
210361	D4	Half Hip Girder	1	2		145442761
Wheeler Lumber, Wa	verly, KS - 66871,		8		Job Reference (optional) 22 2021 MiTek Industries, Inc. Wed Mar 31 10:13:42	2021 Page 3
	, ,	ID:I3EdZD?h			DC?-H?cnGPxMNSPWR8cRMQQjTR6BELL0_Wpklp	
LOAD CASE(S) Standar	ď					
Concentrated Loads (Ib		24 26(0) 22 26(0) 22 26(0) 24 26(0) 25 26	(D) 26 49	(D) 27-49	(D) 20 40(D) 20 40(D) 20 47(D) 21 47(D) 22 47(D)
		21=30(B) 22=30(B) 23=30(B) 24=30(B) 25=30 37=-115(B) 38=-22 39=-22 40=-22 41=-22 42=			(B) 28=48(B) 29=48(B) 30=47(B) 31=47(B) 32=47(=-22(B)	в)
10) Dead + 0.6 MWFRS V		lel: Lumber Increase=1.60, Plate Increase=1.6		()		
Uniform Loads (plf)	3-8=11, 1-16=-12, 2-11=-12,	9-1012				
Horz: 1-3=-4		3-1012				
Concentrated Loads (0/D) 07 4		
) 21=34(B) 22=36(B) 23=36(B) 24=36(B) 25=3 36=-26(B) 37=-115(B) 38=-22 39=-22 40=-22				
		lel: Lumber Increase=1.60, Plate Increase=1.6		(2) !0		
Uniform Loads (plf)	0.0.44.4.40.40.0.44.40	0.10, 10				
Horz: 1-3=-1	, 3-8=11, 1-16=-12, 2-11=-12, 3, 8-9=-14	9-10=-12				
Concentrated Loads ((lb)					
) 21=36(B) 22=36(B) 23=36(B) 24=36(B) 25=3 36=-26(B) 37=-115(B) 38=-22 39=-22 40=-22				
		lel: Lumber Increase=1.60, Plate Increase=1.6		=-22(Б) 43	D=-22(D) 44=-22(D)	
Uniform Loads (plf)	()					
Vert: 1-3=9, 3 Horz: 1-3=-29	3-8=-9, 1-16=-20, 2-11=-20, 9	9-10=-20				
Concentrated Loads (
) 21=54(B) 22=55(B) 23=55(B) 24=55(B) 25=5				
		36=-18(B) 37=-115(B) 38=-14 39=-14 40		=-14(B) 43	3=-14(B) 44=-14(B)	
Uniform Loads (plf)	nina (nog. monia) zna i ala					
	3-8=-9, 1-16=-20, 2-11=-20, 9	9-10=-20				
Horz: 1-3=-1 ² Concentrated Loads (
Vert: 3=55(B)) 8=64(B) 9=-22(B) 15=129(B) 21=55(B) 22=55(B) 23=55(B) 24=55(B) 25=5				
	=-18(B) 34=-18(B) 35=-18(B) se=0.90, Plate Increase=0.90	36=-18(B) 37=-115(B) 38=-14 39=-14 40=-14	1=-14 42	=-14(B) 43	3=-14(B) 44=-14(B)	
Uniform Loads (plf)	se=0.90, Flate Increase=0.90	Fit. metai=0.90				
Vert: 1-3=-20), 3-8=-20, 1-16=-20, 2-11=-2	0, 9-10=-20				
Concentrated Loads ((B) 21=-35(B) 22=-35(B) 23=-35(B) 24=-35(B)	2535(B)	2636/B	2) 2736(B) 2836(B) 2036(B) 3036(B)	
) 35=-43(B) 36=-43(B) 37=-115(B) 38=-37 39=-				
	e (bal.) + 0.75(0.6 MWFRS W	/ind (Neg. Int) Left): Lumber Increase=1.60, Pla	ite Increas	se=1.60		
Uniform Loads (plf) Vert: 1-3=-57	7, 3-8=-36, 1-16=-20, 2-11=-20	0 9-10=-20				
Horz: 1-3=-0,						
Concentrated Loads (24 27/D) 22 25/D) 22 25/D) 24 25/D) 25 25		(D) 07 04		D)
		21=27(B) 22=25(B) 23=25(B) 24=25(B) 25=25) 37=-115(B) 38=-14 39=-14 40=-14 41=-14 42			(B) 28=34(B) 29=34(B) 30=33(B) 31=33(B) 32=33(4=-14(B)	в)
16) Dead + 0.75 Roof Live		/ind (Neg. Int) Right): Lumber Increase=1.60, F			()	
Uniform Loads (plf)	8, 3-8=-36, 1-16=-20, 2-11=-20	0.0.10 - 20				
Horz: 1-3=-40		0, 9-10=-20				
Concentrated Loads (
		21=26(B) 22=25(B) 23=25(B) 24=25(B) 25=25 3=-18(B) 34=-18(B) 35=-18(B) 36=-18(B) 37=-1				
	14(B) 43=-14(B) 44=-14(B)		10(D) 00=	14 00= 1		
	e (bal.) + 0.75(0.6 MWFRS W	/ind (Neg. Int) 1st Parallel): Lumber Increase=1	.60, Plate	Increase=	=1.60	
Uniform Loads (plf) Vert: 1-3=-36	6, 3-8=-49, 1-16=-20, 2-11=-2	0 9-10=-20				
Horz: 1-3=-22		0, 0 10-20				
Concentrated Loads ((D) 00 47	(D) 07 47		
		21=37(B) 22=38(B) 23=38(B) 24=38(B) 25=38 3=-18(B) 34=-18(B) 35=-18(B) 36=-18(B) 37=-1				
41=-14 42=-1	14(B) 43=-14(B) 44=-14(B)		. ,			
	e (bal.) + 0.75(0.6 MWFRS W	/ind (Neg. Int) 2nd Parallel): Lumber Increase=	1.60, Plate	e Increase	=1.60	
Uniform Loads (plf) Vert: 1-3=-49), 3-8=-49, 1-16=-20, 2-11=-2	0.9-10=-20				
Horz: 1-3=-9,						
Concentrated Loads (24 20(D) 22 20(D) 22 20(D) 24 20(D) 25 20	(D) 00 47			
		21=38(B) 22=38(B) 23=38(B) 24=38(B) 25=38 3=-18(B) 34=-18(B) 35=-18(B) 36=-18(B) 37=-1				
41=-14 42=-1	14(B) 43=-14(B) 44=-14(B)		- (-, 00-	'		
	Nind Min. Left: Lumber Increa	ase=1.60, Plate Increase=1.60				
Uniform Loads (plf) Vert: 1-3=-16	5, 3-8=-12, 1-16=-12, 2-11=-1	2, 9-10=-12				
Horz: 1-3=4						



Job	Truss	Truss Type	Qty	Ply	Lot 87 W0	145440704		
210361	D4	Half Hip Girder	1	2		145442761		
Wheeler Lumber,	Waverly, KS - 66871,		8.4		Job Reference (optional) 22 2021 MiTek Industries, Inc. Wed Mar 3	31 10:13:42 2021 Page 4		
Wheeler Lumber,	waveny, No - 00071,				DC?-H?cnGPxMNSPWR8cRMQQjTR6BE			
33=-26 20) Dead + 0.6 MW Uniform Loads Vert: 1- Horz: 8	oads (lb) =44(B) 8=47(B) 9=-27(B) 15=7 (B) 34=-26(B) 35=-26(B) 36=-2 (FRS Wind Min. Right: Lumber (plf) -3=-12, 3-8=-12, 1-16=-12, 2-1 8-9=-16	26(B) 37=-115(B) 38=-22 39=-22 40= Increase=1.60, Plate Increase=1.60			(B) 28=51(B) 29=51(B) 30=51(B) 31=57 4=-22(B)	1(B) 32=51(B)		
33=-26 21) 1st Dead + Roo Uniform Loads Vert: 1- Concentrated L	=42(B) 8=47(B) 9=-27(B) 15=7 (B) 34=-26(B) 35=-26(B) 36=-2 f Live (unbalanced): Lumber Ir (plf) -3=-70, 3-8=-70, 1-16=-20, 2-1 oads (lb)	26(B) 37=-115(B) 38=-22 39=-22 40= crease=1.15, Plate Increase=1.15 1=-20, 9-10=-20	-22 41=-22 42=-22(B) 43	=-22(B) 44				
31=-10 22) 2nd Dead + Roo	Vert: 3=-94(B) 8=-135(B) 9=-59(B) 15=-447(B) 21=-94(B) 22=-94(B) 23=-94(B) 24=-94(B) 25=-94(B) 26=-110(B) 27=-110(B) 28=-110(B) 29=-110(B) 30=-109(B) 31=-109(B) 32=-109(B) 33=-73(B) 35=-73(B) 36=-73(B) 37=-115(B) 38=-51 39=-51 40=-51 41=-51 42=-52(B) 43=-52(B) 44=-52(B) 22) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)							
Concentrated L Vert: 3= 31=-10	Vert: 1-3=-20, 3-8=-70, 1-16=-20, 2-11=-20, 9-10=-20 Concentrated Loads (lb) Vert: 3=-117(B) 8=-135(B) 9=-59(B) 15=-447(B) 21=-98(B) 22=-94(B) 23=-94(B) 24=-94(B) 25=-94(B) 26=-110(B) 27=-110(B) 28=-110(B) 29=-110(B) 30=-109(B) 31=-109(B) 32=-109(B) 32=-73(B) 35=-73(B) 36=-73(B) 36=-73(B) 37=-115(B) 38=-51 39=-51 40=-51 41=-51 42=-52(B) 43=-52(B) 44=-52(B) 44=-5							
Vert: 1- Concentrated L Vert: 3- 31=-91	Uniform Loads (pf) Vert: 1-3=-58, 3-8=-58, 1-16=-20, 2-11=-20, 9-10=-20 Concentrated Loads (lb) Vert: 3=-79(B) 8=-112(B) 9=-56(B) 15=-383(B) 21=-79(B) 22=-79(B) 23=-79(B) 24=-79(B) 25=-79(B) 26=-92(B) 27=-92(B) 28=-92(B) 29=-92(B) 30=-91(B) 31=-91(B) 32=-91(B) 33=-65(B) 34=-65(B) 35=-65(B) 36=-65(B) 37=-115(B) 38=-48 39=-48 40=-48 41=-48 42=-48(B) 43=-48(B) 44=-48(B)							
Uniform Loads Vert: 1- Concentrated Lo Vert: 3-	 44) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-3=-20, 3-8=-58, 1-16=-20, 2-11=-20, 9-10=-20 Concentrated Loads (lb) Vert: 3=-97(B) 8=-112(B) 9=-56(B) 15=-383(B) 21=-83(B) 22=-79(B) 23=-79(B) 24=-79(B) 25=-79(B) 26=-92(B) 27=-92(B) 28=-92(B) 29=-92(B) 30=-91(B) 							
25) Reversal: Dead Uniform Loads Vert: 1- Horz: 1	31=-91(B) 32=-91(B) 33=-65(B) 34=-65(B) 35=-65(B) 36=-65(B) 37=-115(B) 38=-48 39=-48 40=-48 41=-48 42=-48(B) 43=-48(B) 44=-48(B) 44=-48(B) 45(B) 44=-48(B) 4							
Vert: 3= 30=-11 26) Reversal: Dead Uniform Loads Vert: 1-	Concentrated Loads (lb) Vert: 3=-98(B) 8=-105(B) 9=-55(B) 15=-277(B) 21=-108(B) 22=-111(B) 23=-111(B) 24=-111(B) 25=-111(B) 26=-116(B) 27=-116(B) 28=-116(B) 29=-116(B) 30=-116(B) 30=-116(B) 31=-116(B) 33=-60(B) 34=-60(B) 35=-60(B) 36=-60(B) 37=-115(B) 38=-50 39=-50 40=-50 41=-50 42=-50(B) 43=-50(B) 44=-50(B) 44=-5							
Concentrated L Vert: 3= 27=-11 37=-11	Horz: 1-3=-25, 8-9=-17 Concentrated Loads (lb) Vert: 3=-104(B) 8=-105(B) 9=-55(B) 15=-277(B) 21=-109(B) 22=-111(B) 23=-111(B) 24=-111(B) 25=-111(B) 26=-116(B) 27=-116(B) 28=-116(B) 30=-116(B) 31=-116(B) 32=-116(B) 33=-60(B) 34=-60(B) 35=-60(B) 36=-60(B) 37=-115(B) 38=-50 39=-50 40=-50 41=-50 42=-50(B) 43=-50(B) 44=-50(B) 27) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60							
Uniform Loads Vert: 1- Horz: 1 Concentrated L Vert: 3: 28=-96	 27) Reversal: Dead + 0.6 m/WFRS wind (Neg. Internal) Left: Lumber increase=1.60, Plate increase=1.60 Uniform Loads (pf) Vert: 1-3=-20, 3-8=9, 1-16=-20, 2-11=-20, 9-10=-20 Horz: 1-3=-0, 8-9=10 Concentrated Loads (lb) Vert: 3=-78(B) 8=-93(B) 9=-50(B) 15=-258(B) 21=-89(B) 22=-91(B) 23=-91(B) 25=-91(B) 25=-91(B) 26=-96(B) 27=-96(B) Vert: 3=-78(B) 30=-96(B) 31=-96(B) 32=-96(B) 33=-52(B) 34=-52(B) 35=-52(B) 36=-52(B) 37=-115(B) 38=-42 39=-42 40=-42 41=-42 42=-42(B) 43=-42(B) 44=-42(B) 							
28) Reversal: Dead Uniform Loads Vert: 1- Horz: 1 Concentrated L Vert: 3:	40=-42 41=-42 42=-42(b) 43=-42(b) 44=-42(b) 28) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-3=-7, 3-8=9, 1-16=-20, 2-11=-20, 9-10=-20 Horz: 1-3=-13, 8-9=-28 Concentrated Loads (lb) Vert: 3=-84(B) 8=-93(B) 9=-50(B) 15=-258(B) 21=-90(B) 22=-91(B) 23=-91(B) 25=-91(B) 25=-91(B) 26=-96(B) 27=-96(B) Vert: 3=-84(B) 30=-96(B) 31=-96(B) 32=-96(B) 33=-52(B) 34=-52(B) 35=-52(B) 36=-52(B) 37=-115(B) 38=-42 39=-42							
29) Reversal: Dead Uniform Loads Vert: 1-	(plf) -3=29, 3-8=11, 1-16=-12, 2-11: -3=-41, 8-9=20	ernal) 1st Parallel: Lumber Increase=	1.60, Plate Increase=1.60					
Vert: 3= 28=-99 40=-50	=-102(B) 8=-94(B) 9=-55(B) 15 (B) 29=-99(B) 30=-98(B) 31=-9 41=-50 42=-50(B) 43=-50(B) 4	=-277(B) 21=-95(B) 22=-93(B) 23=-9 98(B) 32=-98(B) 33=-60(B) 34=-60(B) 14=-50(B) rmal) 2nd Parallel: Lumber Increase=) 35=-60(B) 36=-60(B) 37=	=-115(B)				



Job	Truss	Truss Type	Qty	Ply	Lot 87 W0]		
210361	D4	Half Hip Girder	1			145442761		
	erly, KS - 66871,		8.4	2 30 s Mar 3	Job Reference (optional) 22 2021 MiTek Industries, Inc. Wed Mar 31 10	0:13:42 2021 Page 5		
		ID:I3E			DC?-H?cnGPxMNSPWR8cRMQQjTR6BELL0			
Horz: 1-3=-23 Concentrated Loads (I Vert: 3=-93(B) 31=-98(B) 32= 31) Reversal: Dead + 0.6 I Uniform Loads (plf) Vert: 1-3=29, Horz: 1-3=-41 Concentrated Loads (II	3-8=11, 1-16=-12, 2-11=-12, , 8-9=-14 b) 8=-94(B) 9=-55(B) 15=-277(-98(B) 33=-60(B) 34=-60(B) WWFRS Wind (Pos. Internal) 3-8=11, 1-16=-12, 2-11=-12, , 8-9=20 b)	B) 21=-93(B) 22=-93(B) 23=-93(B) 24= 35=-60(B) 36=-60(B) 37=-115(B) 38=-5 3rd Parallel: Lumber Increase=1.60, Pla 9-10=-12	0 39=-50 40=-50 4 ate Increase=1.60	41=-50 42				
32) Reversal: Dead + 0.6 I Uniform Loads (plf) Vert: 1-3=11, Horz: 1-3=-23 Concentrated Loads (I	Vert: 1-3=11, 3-8=11, 1-16=-12, 2-11=-12, 9-10=-12 Horz: 1-3=-23, 8-9=-14 Concentrated Loads (lb)							
31=-98(B) 32= 33) Reversal: Dead + 0.6 I Uniform Loads (plf) Vert: 1-3=9, 3 Horz: 1-3=-29 Concentrated Loads (II	Vert: 1-3=9, 3-8=-9, 1-16=-20, 2-11=-20, 9-10=-20 Horz: 1-3=-29, 8-9=8							
31=-78(B) 32= 34) Reversal: Dead + 0.6 I Uniform Loads (plf) Vert: 1-3=-9, 3 Horz: 1-3=-11 Concentrated Loads (II	 Vert: 3=-82(B) 8=-81(B) 9=-50(B) 15=-258(B) 21=-75(B) 22=-74(B) 23=-74(B) 24=-74(B) 25=-74(B) 26=-79(B) 27=-79(B) 28=-79(B) 29=-79(B) 30=-78(B) 31=-78(B) 32=-78(B) 33=-52(B) 35=-52(B) 36=-52(B) 37=-115(B) 38=-42 39=-42 40=-42 41=-42 42=-42(B) 43=-42(B) 44=-42(B) 34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-3=-9, 3-8=-9, 1-16=-20, 2-11=-20, 9-10=-20 Horz: 1-3=-11, 8-9=-26 Concentrated Loads (lb) 							
31=-78(B) 32= 35) Reversal: Dead + 0.75 Uniform Loads (plf) Vert: 1-3=-57, Horz: 1-3=-0, Concentrated Loads (II Vert: 3=-91(B)	Vert: 1-3=-57, 3-8=-36, 1-16=-20, 2-11=-20, 9-10=-20 Horz: 1-3=-0, 8-9=7 Concentrated Loads (lb) Vert: 3=-91(B) 8=-126(B) 9=-57(B) 15=-380(B) 21=-99(B) 22=-101(B) 23=-101(B) 24=-101(B) 25=-101(B) 26=-114(B) 27=-114(B) 28=-114(B) 29=-114(B)							
36) Reversal: Dead + 0.75 Uniform Loads (plf) Vert: 1-3=-48, Horz: 1-3=-10 Concentrated Loads (II Vert: 3=-95(B) 27=-114(B) 28 37=-115(B) 38	Roof Live (bal.) + 0.75(0.6 M 3-8=-36, 1-16=-20, 2-11=-20 , 8-9=-21 b) 8=-126(B) 9=-57(B) 15=-380 3=-114(B) 29=-114(B) 30=-11 3=-49 39=-49 40=-49 41=-49	WFRS Wind (Neg. Int) Right): Lumber , 9-10=-20)(B) 21=-100(B) 22=-101(B) 23=-101(B) 3(B) 31=-113(B) 32=-113(B) 33=-67(B) 42=-50(B) 43=-50(B) 44=-50(B)	24=-101(B) 25=- 34=-67(B) 35=-67	ate Increa 101(B) 26 7(B) 36=-6	∋=-114(B)	5)		
 37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-3=-36, 3-8=-49, 1-16=-20, 2-11=-20, 9-10=-20 Horz: 1-3=-22, 8-9=6 Concentrated Loads (lb) Vert: 3=-94(B) 8=-118(B) 9=-57(B) 15=-380(B) 21=-89(B) 22=-88(B) 23=-88(B) 25=-88(B) 26=-101(B) 27=-101(B) 28=-101(B) 30=-100(B) 31=-100(B) 32=-100(B) 32=-67(B) 34=-67(B) 35=-67(B) 36=-67(B) 37=-115(B) 38=-49 39=-49 40=-49 41=-49 42=-50(B) 43=-50(B) 								
 38) Reversal: Dead + 0.75 Increase=1.60 Uniform Loads (plf) Vert: 1-3=-49, Horz: 1-3=-9, Concentrated Loads (II Vert: 3=-88(B) 27=-101(B) 28 37=-115(B) 38 39) Reversal: Dead + 0.6 f 	Roof Live (bal.) + 0.75(0.6 M 3-8=-49, 1-16=-20, 2-11=-20 8-9=-19 b) 8=-118(B) 9=-57(B) 15=-380 3=-101(B) 29=-101(B) 30=-10 3=-49 39=-49 40=-49 41=-49	WFRS Wind (Neg. Int) 2nd Parallel): Lu	=-88(B) 25=-88(B) 34=-67(B) 35=-67	26=-101	(B)			
Uniform Loads (plf) Vert: 1-3=-16, Horz: 1-3=4	3-8=-12, 1-16=-12, 2-11=-12	, 9-10=-12						



Job	Truss	Truss Type	Qty	Ply	Lot 87 W0
					145442761
210361	D4	Half Hip Girder	1	2	
				_	Job Reference (optional)
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Mar 22				22 2021 MiTek Industries, Inc. Wed Mar 31 10:13:42 2021 Page 6	

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Mar 31 10:13:42 2021 Page 6 ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-H?cnGPxMNSPWR8cRMQQiTR6BELL0_WpklpnQNNzVRzN

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-52(B) 8=-60(B) 9=-52(B) 15=-238(B) 21=-53(B) 22=-53(B) 23=-53(B) 24=-53(B) 25=-53(B) 25=-56(B) 27=-56(B) 28=-56(B) 29=-56(B) 30=-56(B) 31=-56(B) 32=-56(B) 33=-54(B) 35=-54(B) 36=-54(B) 37=-115(B) 38=-47 39=-47 40=-47 41=-47 42=-47(B) 43=-47(B) 44=-47(B) 40) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

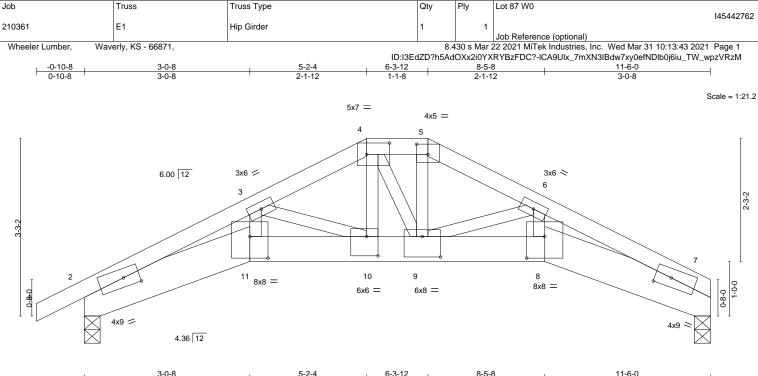
Vert: 1-3=-12, 3-8=-12, 1-16=-12, 2-11=-12, 9-10=-12

Horz: 8-9=-16

Concentrated Loads (lb)

Vert: 3=-53(B) 8=-60(B) 9=-52(B) 15=-238(B) 21=-53(B) 22=-53(B) 23=-53(B) 24=-53(B) 25=-53(B) 26=-56(B) 27=-56(B) 28=-56(B) 29=-56(B) 30=-56(B) 31=-56(B) 32=-56(B) 33=-54(B) 35=-54(B) 35=-56(B) 35





L	3-0-8	5-2-4	6-3-12	8-5-8	11-6-0	
	3-0-8	2-1-12	1-1-8	2-1-12	3-0-8	
Plate Offsets (X,Y)	[2:0-3-8,0-2-0], [4:0-5-0,0-2-8], [5:0-2-	8,0-2-4], [7:0-3-8,0-2-0], [8:0	-4-0,0-4-12], [9:0)-4-0,0-4-8], [10:0-2-8,0-4-4], [11:0-4-0,0-4-12]	
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)	-0.09 10 >999 360) MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT)	-0.17 10-11 >800 240)	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.27	Horz(CT)	0.13 7 n/a n/a	a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.08 10-11 >999 240) Weight: 55 lb FT = 10%	%
			()			

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

 BOT CHORD
 2x4 SPF No.2
 TOP CHORD
 Structural wood sheathing directly applied or 3-0-6 oc purlins, except 2-0-0 oc purlins (4-0-7 max.): 4-5.

 BOT S
 2x3 SPF No.2
 BOT CHORD
 BOT CHORD

 WEBS
 2x3 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied or 9-2-7 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-3-8 Max Horz 2=57(LC 12) Max Uplift 7=-221(LC 9), 2=-246(LC 8) Max Grav 7=974(LC 1), 2=1051(LC 1)

6-8=-97/649

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

- TOP CHORD 2-3=-3131/747, 3-4=-2251/573, 4-5=-2097/534, 5-6=-2307/578, 6-7=-3145/700
- BOT CHORD 2-11=-674/2734, 10-11=-623/2523, 9-10=-472/2040, 8-9=-541/2546, 7-8=-583/2753
- WEBS 3-11=-130/687, 3-10=-563/173, 4-10=-155/678, 5-9=-161/792, 6-9=-534/155,

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) Bearing at joint(s) 7, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=221, 2=246.
- This truss 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) 109 lb down and 95 lb up at 5-2-4, and 109 lb down and 95 lb up at 6-3-12 on top chord, and 336 lb down and 119 lb up at 5-2-4, and 355 lb down and 124 lb up at 6-3-12 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

Continued on page 2







[Job	Truss	Truss Type	Qty	Ply	Lot 87 W0
						145442762
	210361	E1	Hip Girder	1	1	
						Job Reference (optional)
	Wheeler Lumber, Wave	erly, KS - 66871,		8.4	130 s Mar 2	22 2021 MiTek Industries, Inc. Wed Mar 31 10:13:44 2021 Page 2

ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-DOkXh5ycu3fEhRmpUrSBZsBYy9xFSZx1D6GXSFzVRzL

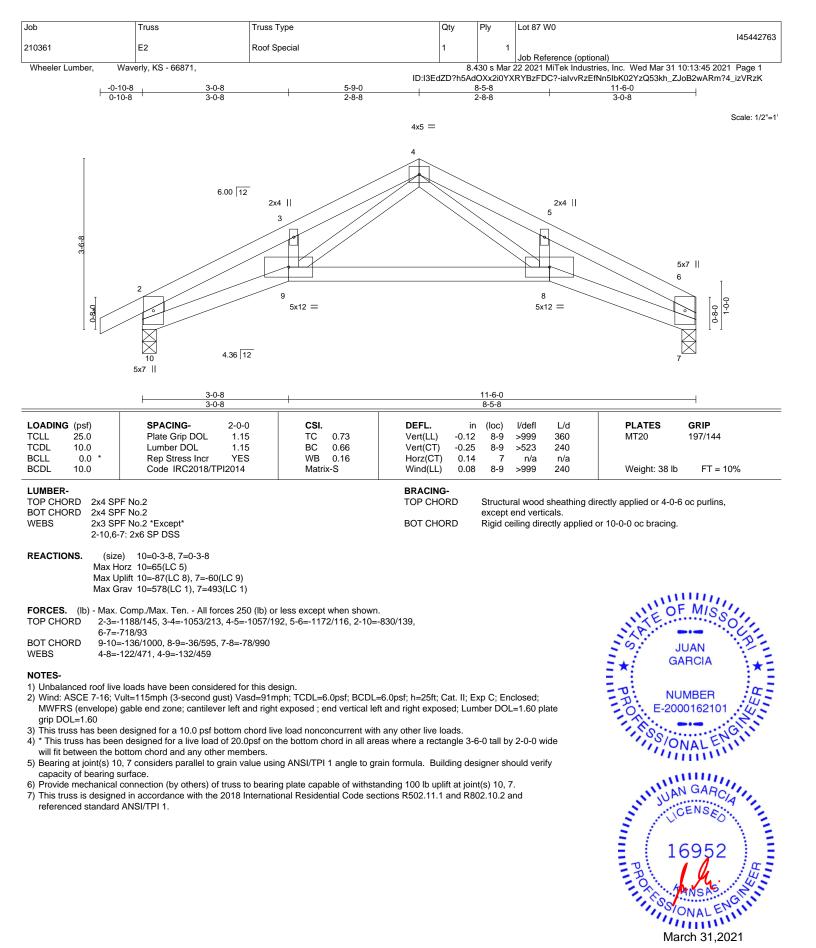
LOAD CASE(S) Standard

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

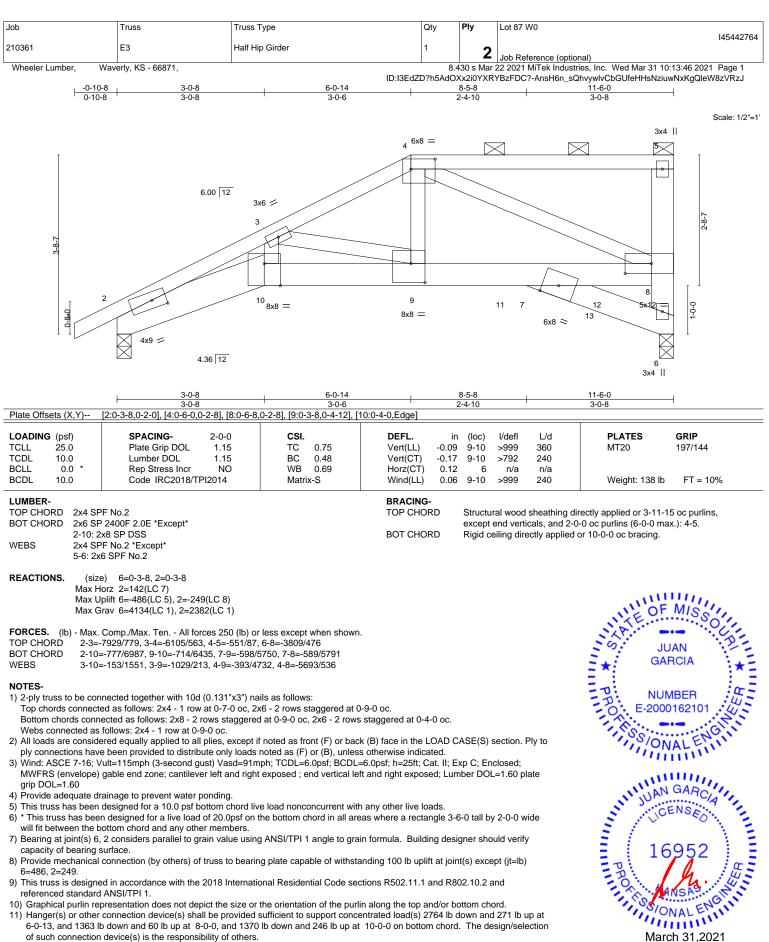
Vert: 1-4=-70, 4-5=-70, 5-7=-70, 2-11=-20, 8-11=-20, 7-8=-20 Concentrated Loads (lb)

Vert: 4=-86(F) 5=-86(F) 10=-377(F=-336) 9=-396(F=-355)









8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=486, 2=249.

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.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2764 lb down and 271 lb up at 6-0-13, and 1363 lb down and 60 lb up at 8-0-0, and 1370 lb down and 246 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2 LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE 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 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

March 31.2021



[Job	Truss	Truss Type	Qty	Ply	Lot 87 W0
						145442764
	210361	E3	Half Hip Girder	1	2	
					2	Job Reference (optional)
	Wheeler Lumber, Wave	erly, KS - 66871,		8.4	130 s Mar 2	22 2021 MiTek Industries, Inc. Wed Mar 31 10:13:46 2021 Page 2

ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-AnsH6n_sQhvywlvCbGUfeHHsNziuwNxKgQleW8zVRzJ

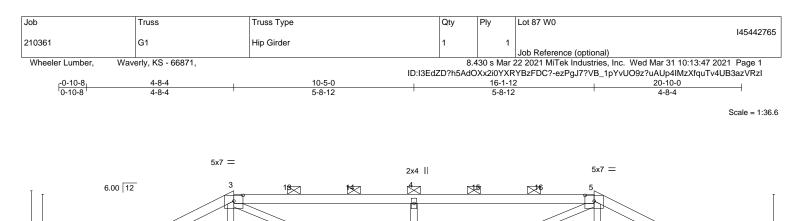
LOAD CASE(S) Standard

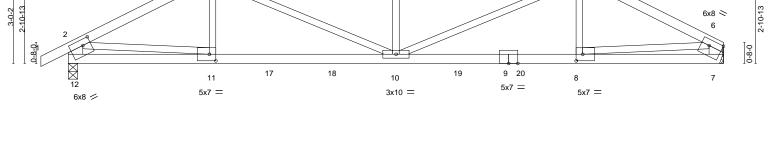
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-70, 4-5=-70, 2-10=-20, 7-10=-20, 6-7=-20 Concentrated Loads (Ib)

Vert: 9=-2764(B) 11=-1363(B) 12=-1316(B)







	4-8-4 4-8-4	10-5-0 5-8-12		<u>16-1-12</u> 5-8-12	20-10-0 4-8-4				
Plate Offsets (X,Y)	[3:0-3-8,0-2-3], [5:0-3-8,0-2-3], [6:Edge	,0-2-4], [8:0-2-8,0-2-8], [1	1:0-2-8,0-2-8], [12:0	-3-0,0-2-4]					
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 NO Code IRC2018/TPI2014	CSI. TC 0.55 BC 0.77 WB 0.64 Matrix-S	Vert(CT) Horz(CT)	-0.13 10 >999 36 -0.26 8-10 >953 24 0.05 7 n/a n	/d PLATES GRIP 50 MT20 197/144 40 /a 40 Weight: 73 lb FT = 10%				
3-5: 2x BOT CHORD 2x4 SF WEBS 2x3 SF 2-12,6	TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD Structural wood sheathing directly applied or 3-3-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-8 max.): 3-5. BOT CHORD 2x4 SPF No.2 BOT CHORD BOT CHORD BOT CHORD								
Max H Max U	e) 12=0-3-8, /=Mechanical łorz 12=57(LC 7) Jplift 12=-227(LC 8), 7=-201(LC 9) Grav 12=1603(LC 1), 7=1521(LC 1)				OF MISS				
TOP CHORD 2-3= 6-7= BOT CHORD 11-1 WEBS 3-11	Comp./Max. Ten All forces 250 (lb) c -2586/358, 3-4=-3301/471, 4-5=-3301/4 -1471/218 2=-155/477, 10-11=-320/2242, 8-10=-2 =0/294, 3-10=-185/1217, 4-10=-744/25 =-257/1813, 6-8=-261/1873	71, 5-6=-2590/357, 2-12= 86/2255, 7-8=-96/401	-1554/244,		GARCIA				
2) Wind: ASCE 7-16; MWFRS (envelope) grip DOL=1.60	 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 								
 5) * This truss has bee will fit between the b 6) Refer to girder(s) fo 	designed for a 10.0 psf bottom chord li en designed for a live load of 20.0psf on pottom chord and any other members. r truss to truss connections. connection (by others) of truss to bear	the bottom chord in all are	eas where a rectang	le 3-6-0 tall by 2-0-0 wide	UAN GARCIA				
 8) This truss is designer referenced standard 9) Graphical purlin rep 10) Hanger(s) or other 4-8-4, 97 lb down up at 12-5-0, and 82 lb up at 4-8-4, , and 279 lb down of others. 	 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. 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 92 lb down and 55 lb up at 4-8-4, 97 lb down and 55 lb up at 6-5-0, 97 lb down and 55 lb up at 8-5-0, 97 lb down and 55 lb up at 10-5-0, 97 lb down and 55 lb up at 10-5-0, and 97 lb down and 55 lb up at 14-5-0, and 92 lb down at 55 lb up at 10-5-0, and 44 lb down at 14-5-0, and 279 lb down and 82 lb up at 16-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 								
,	E(S) section, loads applied to the face of	t the truss are noted as fro	ont (F) or back (B).		March 31,2021				
Design valid for use of a truss system. Befor building design. Brac is always required for fabrication, storage, of	dard design parameters and READ NOTES ON THIS AN only with MiTek® connectors. This design is based e use, the building designer must verify the applic- sing indicated is to prevent buckling of individual tru stability and to prevent collapse with possible per felivery, erection and bracing of trusses and truss available from Truss Plate Institute, 2670 Crain Hi	only upon parameters shown, an ability of design parameters and p uss web and/or chord members o sonal injury and property damage systems, see ANSI/TP I1	d is for an individual build properly incorporate this d nly. Additional temporary . For general guidance re Quality Criteria, DSB-8	ding component, not lesign into the overall v and permanent bracing	t 16023 Swingley Ridge Rd Chesterfield, MO 63017				

Truss	Truss Type	Qty	Ply	Lot 87 W0
				145442765
G1	Hip Girder	1	1	
				Job Reference (optional)
erly, KS - 66871,		8.4	130 s Mar 2	22 2021 MiTek Industries, Inc. Wed Mar 31 10:13:48 2021 Page 2
		G1 Hip Girder	G1 Hip Girder 1	G1 Hip Girder 1 1

ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-69z2XT?7yI9f933bjhX7jiMF2mJmOH8d7kEkb0zVRzH

LOAD CASE(S) Standard

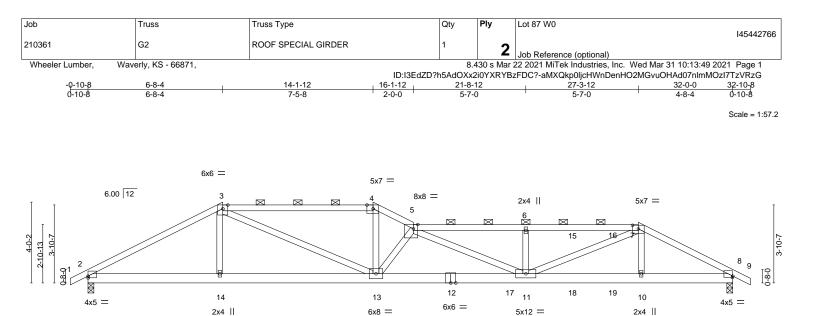
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 7-12=-20

Concentrated Loads (lb)

Vert: 3=-69(F) 5=-69(F) 11=-279(F) 10=-35(F) 4=-69(F) 8=-279(F) 13=-69(F) 14=-69(F) 15=-69(F) 16=-69(F) 17=-35(F) 18=-35(F) 19=-35(F) 20=-35(F) 10=-35(F) 10





6-8-4	14-1-12	16-1-12	21-8-12	27-3-12				
<u>6-8-4</u> late Offsets (X,Y) [2:0-0-0,0-1-1], [4:0-3-10,Edge], [5:0-2	7-5-8 -10,Edge], [7:0-3-8,0-2-3	<u>2-0-0</u>], [8:0-0-4,0-0-13]	5-7-0	5-7-0	4-8-4			
OADING (psf) SPACING- 2-0-0 CLL 25.0 Plate Grip DOL 1.15 CDL 10.0 Lumber DOL 1.15 CLL 0.0 * Rep Stress Incr NO CDL 10.0 Code IRC2018/TPI2014 104	CSI. TC 0.64 BC 0.90 WB 0.49 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.27 11-13 -0.48 11-13 0.07 8 0.19 11-13		PLATES GRIP MT20 197/144 Weight: 273 lb FT = 10%			
LUMBER- BRACING- TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD 3-4,5-7: 2x4 SPF 2100F 1.8E TOP CHORD Structural wood sheathing directly applied or 4 except BOT CHORD 2x6 SPF No.2 *Except* 2-0-0 oc purlins (5-5-4 max.): 3-4, 5-7. 8-12: 2x6 SPF 1650F 1.4E BOT CHORD Rigid ceiling directly applied or 10-0-0 oc braci WEBS 2x4 SPF No.2 SPT CHORD								
REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=-66(LC 13) Max Uplift 2=-220(LC 5), 8=-433(LC 9) Max Grav 2=1998(LC 1), 8=2737(LC 1) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3601/457, 3-4=-5208/742, 4-5=-5898/824, 5-6=-7979/1190, 6-7=-7979/1190, 7-8=-5074/758 BOT CHORD 2-14=-383/3067, 13-14=-386/3060, 11-13=-1029/7427, 10-11=-589/4330, 8-10=-588/4350 WEBS 3-14=0/307, 3-13=-387/2483, 4-13=-260/2208, 5-13=-3639/613, 5-11=-498/815, 6-11=-700/242, 7-11=-628/4015, 7-10=0/393 NUMBER NUMBER								
 6-11=-700/242, 7-11=-628/4015, 7-10=0/39 OTES-) 2-ply truss to be connected together with 10d (0.131"x3") n Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggere Webs connected as follows: 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except ply connections have been provided to distribute only loads Oubalanced roof live loads have been considered for this considered for this considered for this considered for the considered for a live load of 20.0ps for will fit between the bottom chord and any other members.) Provide mechanical connection (by others) of trust to bear 2=220, 8=433.) This truss is designed in accordance with the 2018 Internat referenced standard ANSI/TPI 1. 0) Graphical purlin representation does not depict the size of the constant of the constant for the constant of the constant o	ails as follows: ed at 0-7-0 oc. if noted as front (F) or ba s noted as (F) or (B), unle esign. mph; TCDL=6.0psf; BCD nt exposed ; end vertical i ve load nonconcurrent w the bottom chord in all a ng plate capable of withs ional Residential Code s	ess otherwise indica L=6.0psf; h=25ft; C left and right expos ith any other live lo reas where a recta standing 100 lb upli ections R502.11.1	ated. at. II; Exp C; E ed; Lumber DC ads. ngle 3-6-0 tall I ft at joint(s) exc and R802.10.2	nclosed; DL=1.60 plate by 2-0-0 wide cept (jt=lb) and	NUMBER E-2000162101 SS/ONAL ENGINE UAN GAROLA ICENSEO 16952 BOR TANSAS ONAL ENGINE March 31.2021			

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 87 W0	
					14544276	
210361	G2	ROOF SPECIAL GIRDER	1	2		
				Z	Job Reference (optional)	
Wheeler Lumber,	Waverly, KS - 66871,		8.	430 s Mar	r 22 2021 MiTek Industries, Inc. Wed Mar 31 10:13:50 2021 Page 2	
		ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-2Y5oy81NUvPNPMDzq5Zbo7RZ0azFsE?wb2jrfvzVRzF				

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 119 lb down and 55 lb up at 22-0-0, 119 lb down and 55 lb up at 24-0-0, and 119 lb down and 55 lb up at 26-0-0, and 119 lb down and 55 lb up at 27-3-12 on top chord, and 1080 lb down and 200 lb up at 20-10-12, 44 lb down at 22-0-0, 44 lb down at 24-0-0, and 44 lb down at 26-0-0, and 279 lb down and 82 lb up at 27-3-0 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

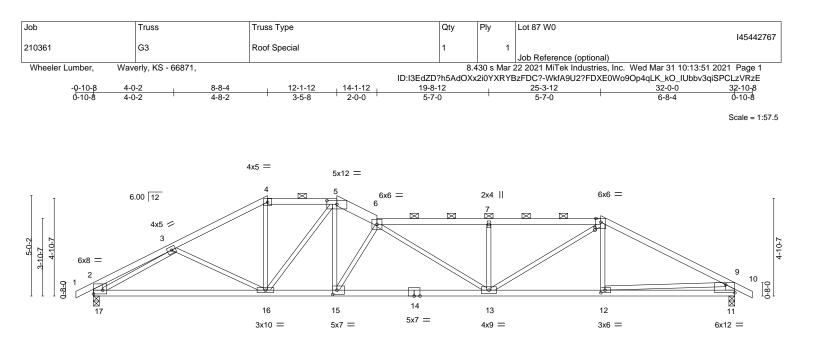
Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-7=-70, 7-9=-70, 2-8=-20

Concentrated Loads (lb)

Vert: 7=-69(F) 6=-69(F) 11=-35(F) 10=-279(F) 15=-69(F) 16=-69(F) 17=-1080(F) 18=-35(F) 19=-35(F)





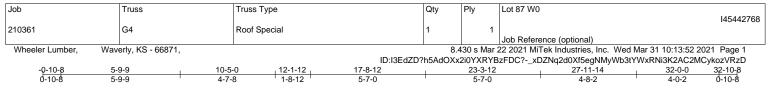
L	8-8-4	12-1-12 14-1-12	19-8-12	25-3-12	32-0-0	
Plate Offsets (X,Y)	8-8-4 [2:Edge,0-2-4], [5:0-6-0,0-2-3], [11:Edge	3-5-8 2-0-0	5-7-0	5-7-0	6-8-4	
	[2.Luge,0-2-4], [5.0-6-0,0-2-5], [11.Lug	3,0-4-13j, [12.0-2-0,0-1-0]	, [15.0-2-0,0-2-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.67		13-15 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.90	()	13-15 >809 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.11	11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.15	5 13-15 >999 240	Weight: 123 lb	FT = 10%
LUMBER-			BRACING-			
TOP CHORD 2x4 SF	PF No.2 *Except*		TOP CHORD	Structural wood sheathir	g directly applied or 2-9-12	oc purlins,
5-6: 2x	6 SPF No.2			except end verticals, and	2-0-0 oc purlins (2-9-13 m	ax.): 4-5, 6-8.
	PF No.2		BOT CHORD	Rigid ceiling directly app	lied or 10-0-0 oc bracing.	
	PF No.2 *Except*					
2-17,9-	-11: 2x6 SPF No.2					
	-) 47 0 0 0 44 0 0 0					
	e) 17=0-3-8, 11=0-3-8					
	lorz 17=-80(LC 6) lplift 17=-136(LC 8), 11=-245(LC 9)					111.
	Grav 17=1497(LC 1), 11=1497(LC 1)				UN OF	MICH
Wax C	112 1437 (LC 1), 11-1437 (LC 1)				NE	
FORCES. (lb) - Max	Comp./Max. Ten All forces 250 (lb) or	less except when shown			N.P	
	-618/25, 3-4=-2211/241, 4-5=-1908/230,				- 6.	1ANI
	-3021/478, 8-9=-2376/362, 2-17=-478/78		,			IAN
	7=-208/1970, 15-16=-198/2302, 13-15=-		28, 11-12=-235/784		GAI	
WEBS 4-16:	=-56/659, 5-16=-725/143, 5-15=-223/144	46, 6-15=-1560/328, 7-13=	=-479/192,			
8-13-	=-194/1182, 3-17=-1749/230, 9-12=-168	/1248			=	
					· · · ·	ABER :
NOTES-					O: E-2000	162101
	e loads have been considered for this de					
	/ult=115mph (3-second gust) Vasd=91m				1.50	
	gable end zone; cantilever left and right	exposed ; end vertical lef	t and right exposed; Lur	nber DOL=1.60 plate	I,ON	ALEIN
grip DOL=1.60					1111	IIIII
	rainage to prevent water ponding.		an such as live les -!-			
	designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t			6.0 tall by 2.0.0 wide		
	pottom chord and any other members.		as where a rectangle 3-	0-0 tall by 2-0-0 wide	IN AN	GARC
	connection (by others) of truss to bearing	a plate capable of witheta	anding 100 lb unlift at iou	nt(s) excent (it-lb)	1 20	····· A · ·
17=136, 11=245.	connection (by others) of truss to beam	ig plate capable of withsid	anding 100 ib upint at join	ii(s) evcebi (ii=in)	S	INSED
7) This truss is designed	ed in accordance with the 2018 Internation	onal Residential Code sec	tions R502.11.1 and R8	02.10.2 and	5 / 1	1 1 2

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

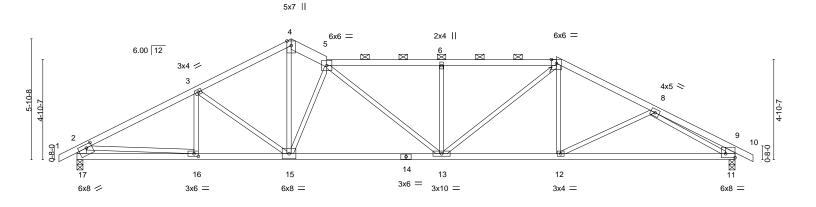
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

16952 TANSAS SIONAL ENGINE March 31,2021

NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017



Scale = 1:56.0



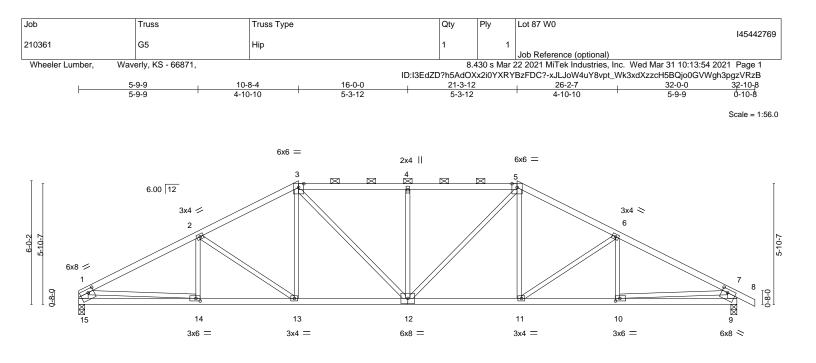
	L	5-9-9	10-5-0	17-8-12			23-3-12			32-0-0		
		5-9-9	4-7-8	7-3-12			5-7-0		1	8-8-4		
Plate Offs	ets (X,Y)	[11:Edge,0-2-4], [16	6:0-2-8,0-1-8], [17:0-	3-4,0-2-0]								
LOADING		SPACING-	2-0-0	CSI.	DEFL.		(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip D		TC 0.52	Vert(LL)	-0.17		>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL		BC 0.68	Vert(CT)		13-15	>999	240			
BCLL	0.0 *	Rep Stress I		WB 0.83	Horz(CT)	0.09	11	n/a	n/a			
BCDL	10.0	Code IRC20	018/TPI2014	Matrix-S	Wind(LL)	0.12	13	>999	240	Weight: 126 lb	FT = 10%	
LUMBER- TOP CHO BOT CHO WEBS	RD 2x4 SF 4-5: 2x RD 2x4 SF 2x3 SF	PF No.2 *Except* 6 SPF No.2 PF No.2 PF No.2 PF No.2 *Except* -11: 2x6 SPF No.2			BRACING TOP CHOI BOT CHOI	RD	except	end verti	icals, and 2-	lirectly applied or 3-4-9 o 0-0 oc purlins (3-3-1 ma l or 10-0-0 oc bracing.		
REACTIO	Max H Max U Max G	e) 17=0-3-8, 11=0 lorz 17=91(LC 7) plift 17=-155(LC 8), rav 17=1497(LC 1)	11=-253(LC 9) , 11=1497(LC 1)							NUTE OF	MISSO	2
FORCES. TOP CHO	RD 2-3≕	2358/263, 3-4=-207	′8/310, 4-5=-2026́/31	less except when shown 13, 5-6=-2466/438, 6-7=-2						S JL	JAN	2
вот сно)/71, 2-17=-1427/188	3, 9-11=-480/103 89/2286, 12-13=-191/192	1 11 10 017/10	~				GAI	RCIA	. =
WEBS				/323, 5-13=-88/357, 6-13		69				- X :		× -
WEDS			267, 2-16=-104/1404		=-470/109,							
	7-13	=-141/707, 7-12=0/2	.07, 2-10=-104/1404	, 0-11=-1747/300						NUN	/BER :	a =
NOTES-										-D. E-2000	•	41-
	nced roof live	loads have been o	onsidered for this de	sian							102101.2	22
2) Wind: A MWFR grip DC	ASCE 7-16; \ S (envelope) DL=1.60	/ult=115mph (3-seco gable end zone; ca	ond gust) Vasd=91m ntilever left and right	ph; TCDL=6.0psf; BCDL: exposed ; end vertical le					late	SS ON	ALENGI	5
		rainage to prevent w										
				e load nonconcurrent with			0.4-11.1				11111	
				he bottom chord in all are	eas where a recta	ngie 3-6	-U tall b	y 2-0-0 w	lide	IN AN	GARO	
		ottom chord and an		a plate espekie of white t	an aliana 100 lla	4 at 1a1-	+/a) av	ant (11 11-)		Nº JUN		1
 17=155	i, 11=253.		,	g plate capable of withsta	0		()	10,		1	ENSED	11
This tru	iss is designe	ed in accordance wit	th the 2018 Internation	onal Residential Code se	ctions R502.11.1 a	and R80)2.10.2 (and		2 1		-

 This truss 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.

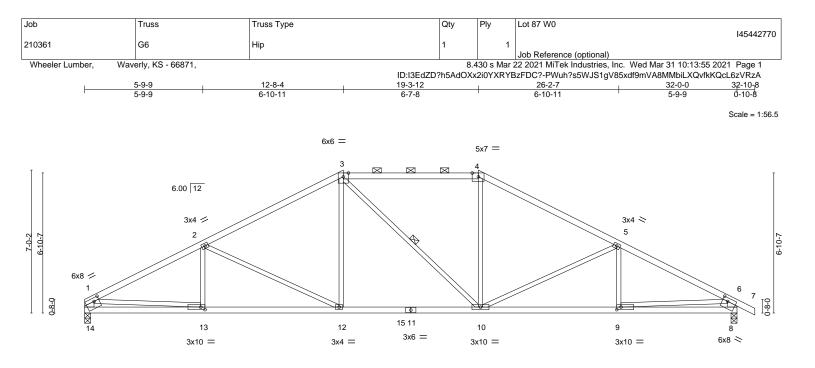


16023 Swingley Ridge Rd Chesterfield, MO 63017



L	5-9-9 10-8-4	16-0-0	21-3-12		26-2-7	32-0-	
Plate Offsets (X,Y)	<u>5-9-9</u> <u>4-10-10</u> [1:0-3-4,0-2-0], [9:0-3-4,0-2-0], [10:0-2	5-3-12	5-3-12	1	4-10-10	5-9-9	9 '
	[1.0-3-4,0-2-0], [3.0-3-4,0-2-0], [10.0-2	-0,0-1-0], [14.0-2-0,0-1-0]					
LOADING(psf)TCLL25.0TCDL10.0BCLL0.0BCDL10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.51 BC 0.54 WB 0.54 Matrix-S	Vert(LL) -0.13	12-13 >999 9 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 126 lb	GRIP 197/144 FT = 10%
			BRACING- TOP CHORD BOT CHORD	except end ver	ticals, and 2-0-	rectly applied or 3-4-9 -0 oc purlins (3-9-1 ma or 10-0-0 oc bracing.	
Max H Max U	e) 15=0-3-8, 9=0-3-8 lorz 15=-95(LC 4) Jplift 15=-132(LC 8), 9=-158(LC 9) Grav 15=1418(LC 1), 9=1498(LC 1)					UNIT OF	MISSIL
TOP CHORD 1-2=- 6-7=- BOT CHORD 14-1	Comp./Max. Ten All forces 250 (lb) c -2376/209, 2-3=-2067/195, 3-4=-2046/2 -2369/207, 1-15=-1348/163, 7-9=-1431 5=-140/486, 13-14=-193/2048, 12-13=- -115/606	217, 4-5=-2046/217, 5-6=-2061 /189	,				
WEBS 2-13:	338/163, 3-13=-34/318, 3-12=-118/51 =-31/314, 6-11=-321/158, 1-14=-65/156		513,				MBER 0162101
2) Wind: ASCE 7-16; MWFRS (envelope) grip DOL=1.60	e loads have been considered for this d /ult=115mph (3-second gust) Vasd=911 gable end zone; cantilever left and righ rainage to prevent water ponding.	nph; TCDL=6.0psf; BCDL=6.0				ESS/O	VALENGINI
4) This truss has been5) * This truss has bee will fit between the b	designed for a 10.0 psf bottom chord li en designed for a live load of 20.0psf on pottom chord and any other members. connection (by others) of truss to bear	the bottom chord in all areas v	vhere a rectangle 3-		wide)	PRO 16	GARCIA
 This truss is designed referenced standard 	ed in accordance with the 2018 Internat I ANSI/TPI 1. resentation does not depict the size or						5952
							AVS 10. (1) NAL EN (1) ch 31,2021
						iviar	01131,2021

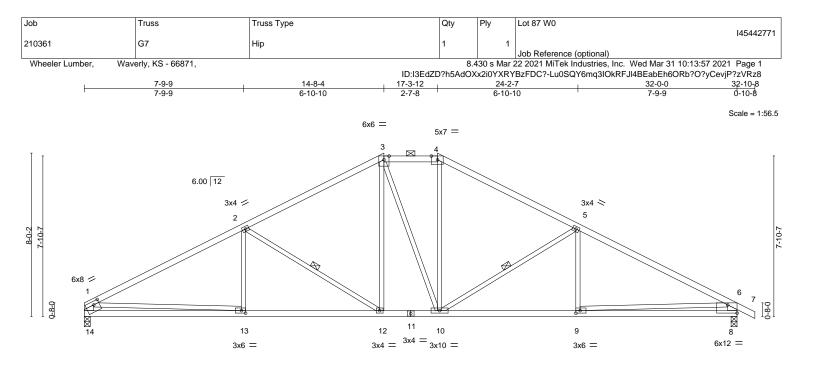




 	5-9-9 12-6		19-3-12	26-2-7	32-0-0
Plate Offsets (X,Y)	5-9-9 6-10 [1:0-3-0,0-2-0], [4:0-3-10,Edge], [8:0-3-		<u>6-7-8</u> 13:0-2-8,0-1-8]	6-10-11	5-9-9
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.86 BC 0.77 WB 0.71 Matrix-S	Vert(LL) -0.16 Vert(CT) -0.27 Horz(CT) 0.08	(loc) I/defi L/d 10-12 >999 360 10-12 >999 240 8 n/a n/a 12-13 >999 240	PLATES GRIP MT20 197/144 Weight: 122 lb FT = 10%
			BRACING- TOP CHORD BOT CHORD WEBS	2-0-0 oc purlins (2-9-12 max.) Rigid ceiling directly applied of	
Max H Max U Max G	e) 14=0-3-8, 8=0-3-8 orz 14=-112(LC 13) plift 14=-151(LC 8), 8=-177(LC 9) rav 14=1482(LC 2), 8=1542(LC 2) Comp./Max. Ten All forces 250 (lb) o	r less except when shown			OF MISS
TOP CHORD 1-2=- 1-14= BOT CHORD 13-14	2501/254, 2-3=-2040/198, 3-4=-130/2 =-1380/178, 6-8=-1442/204 4=-142/499, 12-13=-256/2179, 10-12=-6 =-504/215, 3-12=-11/502, 4-10=0/473, 5	24, 4-5=-2026/196, 5-6=-2 2/1741, 9-10=-149/2158,	2486/252, 8-9=-83/543		9 JUAN GARCIA
	67/1622	-10434/211, 1-13110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		NUMBER #
1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ	nph; TCDL=6.0psf; BCDL:			0 E-2000162101
4) This truss has been5) * This truss has been	ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on	the bottom chord in all are		6-0 tall by 2-0-0 wide	
 6) Provide mechanical 14=151, 8=177. 	ottom chord and any other members, w connection (by others) of truss to bearin	ng plate capable of withsta	o . <i>,</i>		CENSA
 This truss is designer referenced standard 	ed in accordance with the 2018 Internati ANSI/TPI 1.	onal Residential Code see	ctions R502.11.1 and R8	02.10.2 and	E / Vo CON
8) Graphical purlin repr	resentation does not depict the size or t	ne orientation of the purlin	along the top and/or bo	ttom chord.	16952



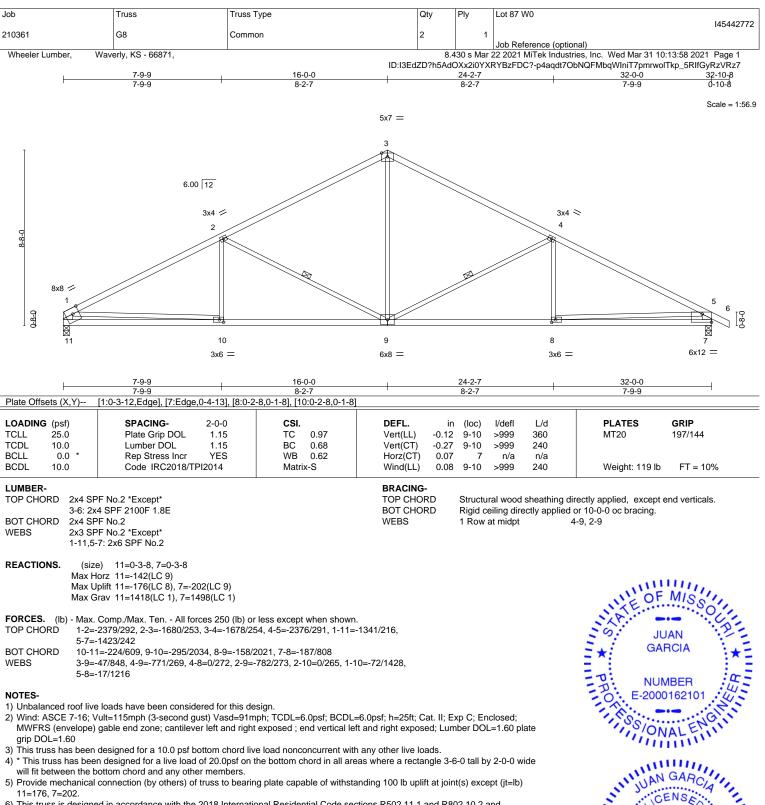




	7-9-9	14-8-4	17-3-12	24-2-7	32-0-0	
	7-9-9	6-10-10	2-7-8	6-10-10	7-9-9	
Plate Offsets (X,Y)	[1:0-3-4,0-2-0], [4:0-3-10,Edge], [8:Edg	e,0-4-13j, [9:0-2-8,0-1-8j,]	13:0-2-8,0-1-8]			
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.91 BC 0.59	DEFL. Vert(LL) Vert(CT)		L/d PLATES 360 MT20 240	GRIP 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.47 Matrix-S	Horz(CT) Wind(LL)	0.07 8 n/a	n/a 240 Weight: 129 lb	FT = 10%
			BRACING- TOP CHOP BOT CHOP WEBS	RD Structural wood sh 2-0-0 oc purlins (4	neathing directly applied, except -7-11 max.): 3-4. Iy applied or 10-0-0 oc bracing. 2-12, 5-10	end verticals, and
Max H Max U Max G	e) 14=0-3-8, 8=0-3-8 orz 14=-130(LC 9) plift 14=-167(LC 8), 8=-193(LC 9) rav 14=1418(LC 1), 8=1498(LC 1)				NUL OF	MISS
TOP CHORD 1-2=-	Comp./Max. Ten All forces 250 (lb) o 2366/268, 2-3=-1768/226, 3-4=-1473/2 1340/209, 6-8=-1422/235				ALE.	OU B
WEBS 2-13=	4=-226/639, 12-13=-258/2018, 10-12=-6 =0/253, 2-12=-664/233, 3-12=-71/441, 4 =-37/1382, 6-9=0/1160					JAN RCIA
	loads have been considered for this de				· · ·	MBER 0162101
MWFRS (envelope) grip DOL=1.60	'ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ ainage to prevent water ponding.				1,50	VALENGITI
4) The Fabrication Tole						
6) * This truss has beer	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.					GARCI
14=167, 8=193.	connection (by others) of truss to bearined in accordance with the 2018 Internation		. .			ENSED
referenced standard	ANSI/TPI 1. resentation does not depict the size or the	a orientation of the purlin	along the top on	d/or bottom chord	10	052
3) Graphical pullin repr	כסבותמוטון עטבי ווטג עבאוטג נוופ גוצפ טו נו	re onemation of the putien	along the top and			5952





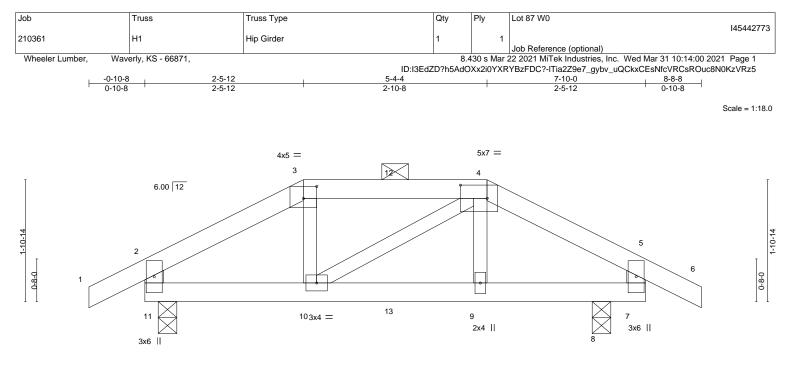


6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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MiTek[®] 16023 Swingley Ridge Rd Chesterfield, MO 63017



	0 <u>-2-8</u> 0-2-8	2-5-12 2-3-4			5-4-4 2-10-8				7-3-8 1-11-4	7-10-0	
Plate Offsets (X,Y)	[3:0-2-8,0-2-4], [4:0-5-0,	0-2-8]			-					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	0.25	Vert(LL)	-0.02	9-10	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.03	9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2018/T	PI2014	Matri	x-S	Wind(LL)	0.02	9-10	>999	240	Weight: 26 lb	FT = 10%
LUMBER-					BRACING-					1	

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except*
	2-11,5-7: 2x4 SPF No.2

REACTIONS. (size) 11=0-3-8, 8=0-3-8 Max Horz 11=-38(LC 6) Max Uplift 11=-138(LC 8), 8=-168(LC 9)

Max Grav 11=383(LC 21), 8=445(LC 1)

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

2-3=-380/166, 3-4=-296/157, 4-5=-309/155, 2-11=-335/142, 5-7=-302/134 TOP CHORD 10-11 = -129/318

BOT CHORD

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) 11=138, 8=168.
- 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) 111 lb down and 126 lb up at 2-5-12, and 62 lb down and 43 lb up at 3-11-0, and 103 lb down and 141 lb up at 5-4-4 on top chord, and 17 lb down and 5 lb up at 2-5-12, and 12 lb down at 3-11-0, and 37 lb down and 53 lb up at 5-3-8 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, 3-4=-70, 4-5=-70, 5-6=-70, 7-11=-20

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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



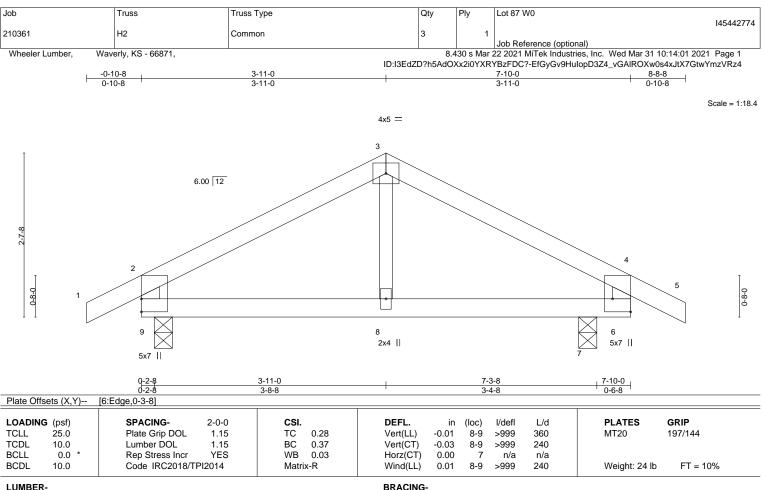
Job	Truss	Truss Type	Qty	Ply	Lot 87 W0
					145442773
210361	H1	Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,		8.4	30 s Mar 2	22 2021 MiTek Industries, Inc. Wed Mar 31 10:14:00 2021 Page 2

ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-ITia2Z9e7_gybv_uQCkxCEsNfcVRCsROuc8N0KzVRz5

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 10=-0(F) 9=-2(F) 13=-2(F)





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 3-8: 2x3 SPF No.2

REACTIONS. (size) 9=0-3-8, 7=0-3-8 Max Horz 9=-47(LC 6) Max Uplift 9=-64(LC 8), 7=-71(LC 9) Max Grav 9=379(LC 1), 7=443(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-298/43, 3-4=-306/52, 2-9=-325/89, 4-6=-342/90

NOTES-

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

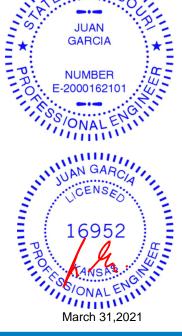
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 7. 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and





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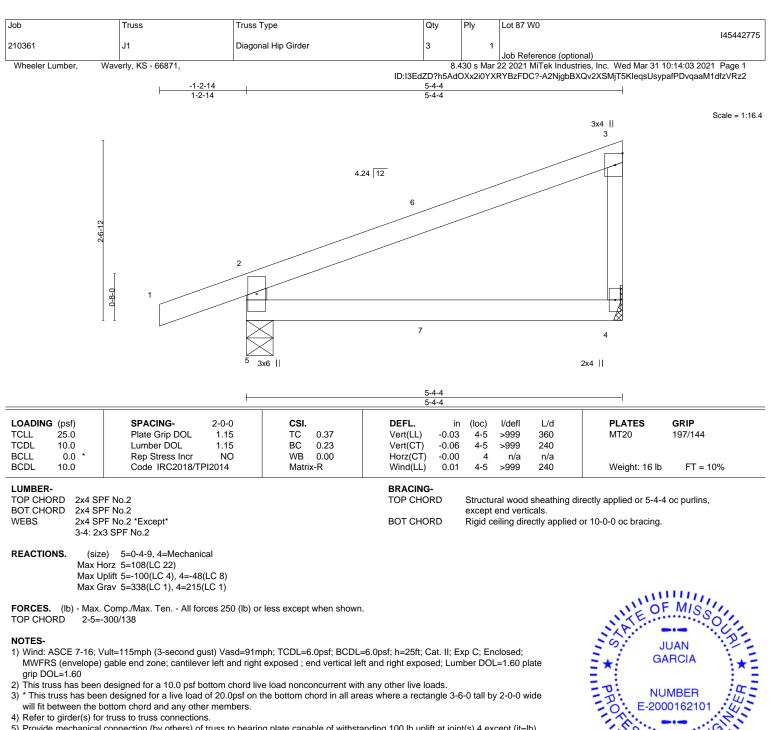
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

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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 = 100

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

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 33 lb up at 2-7-6, and 68 lb down and 33 lb up at 2-7-6 on top chord, and 3 lb down and 2 lb up at 2-7-6, and 3 lb down and 2 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).

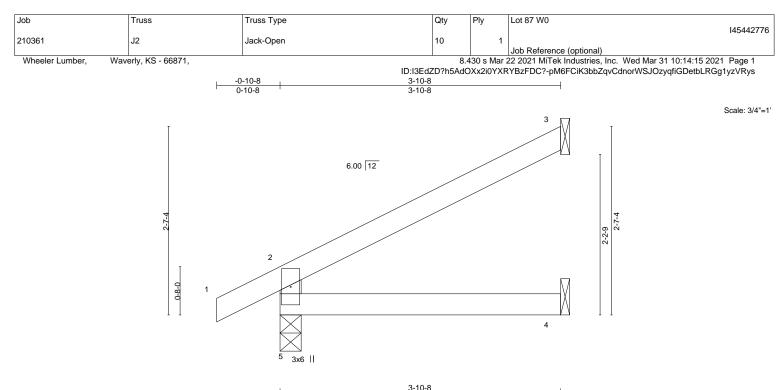
LOAD CASE(S) Standard

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: 7=3(F=2, B=2)







			3-10-8		1	1
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.19	DEFL. in Vert(LL) -0.01		l/defl L/d >999 360	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.12 WB 0.00 Matrix-R	Vert(CT) -0.02 Horz(CT) 0.01 Wind(LL) 0.01	4-5 3 4-5	>999 240 n/a n/a >999 240	Weight: 11 lb FT = 10%

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

WEBS 2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-8 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=87(LC 8)

Max Uplift 5=-29(LC 8), 3=-64(LC 8)

Max Grav 5=246(LC 1), 3=112(LC 1), 4=69(LC 3)

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

NOTES-

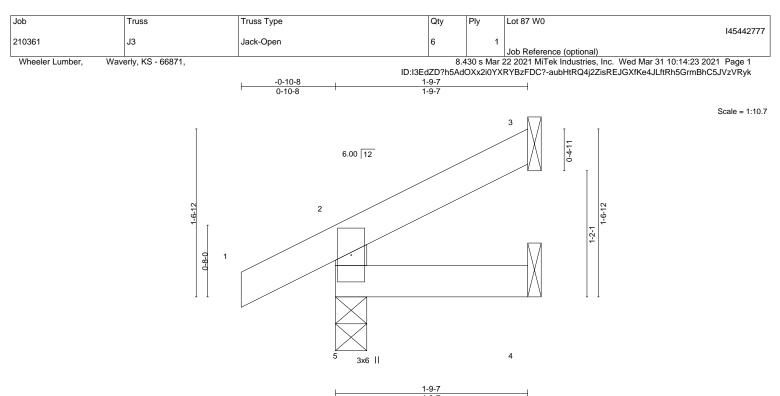
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 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) 5, 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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		1	1-9-7					
LOADING (psf)	SPACING- 2-0-0	CSI. DE	FL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07 Ver	rt(LL) -0.00	5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02 Ver	rt(CT) -0.00	5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00 Hor	rz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R Wir	nd(LL) 0.00	5	>999	240	Weight: 6 lb	FT = 10%

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

2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

Max Horz 5=45(LC 8)

Max Uplift 5=-26(LC 8), 3=-28(LC 8) Max Grav 5=167(LC 1), 3=39(LC 1), 4=29(LC 3)

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

NOTES-

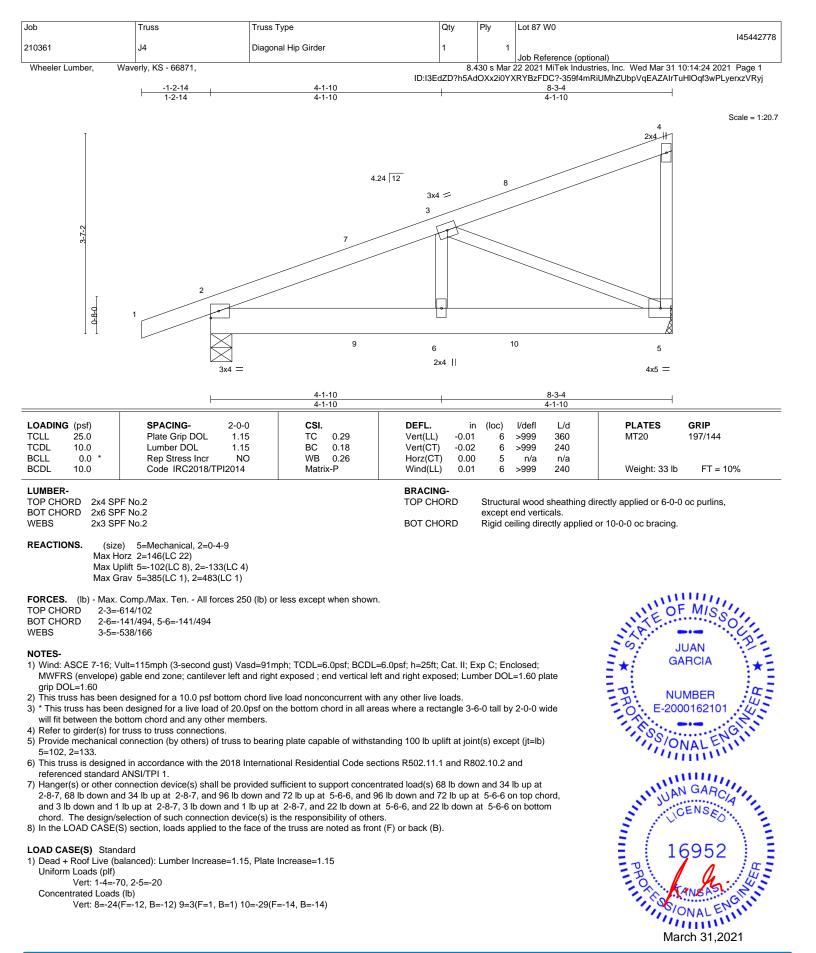
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 3) 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, 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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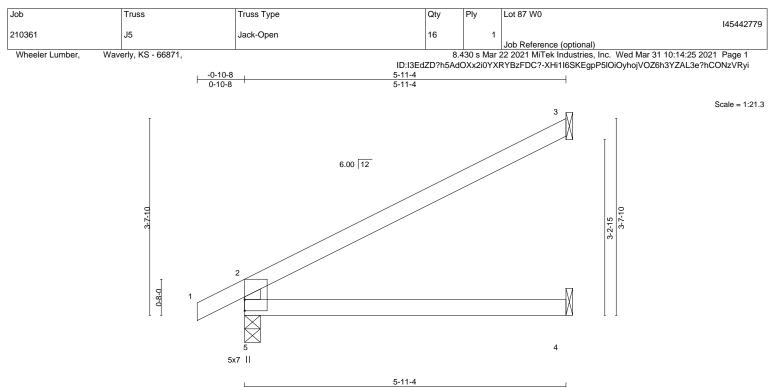
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		 		5-11-4		1	
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0	.05 4-5	>999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0	.11 4-5	>612 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0	.03 3	n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0	.04 4-5	>999 240	Weight: 16 lb FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-11-4 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 8) Max Uplift 3=-58(LC 8) Max Grav 5=336(LC 1), 3=179(LC 1), 4=108(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-293/47

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.

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.

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.

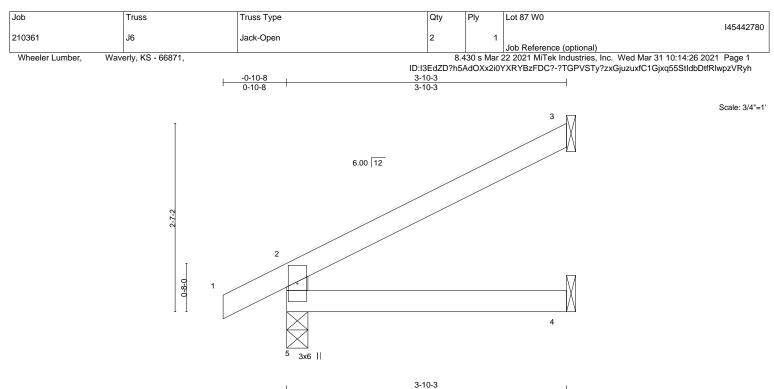
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			3-10-3									
LOADING	· · ·	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-10-3 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=86(LC 8)

Max Horz 5=86(LC 8) Max Uplift 5=-29(LC 8), 3=-63(LC 8)

Max Grav 5=245(LC 1), 3=111(LC 1), 4=68(LC 3)

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

NOTES-

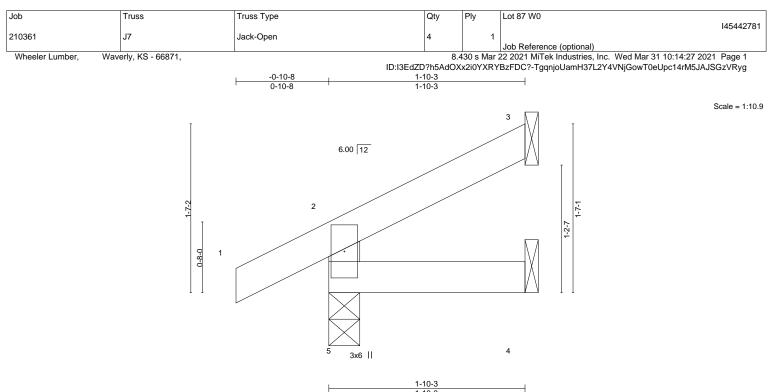
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 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) 5, 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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				1-10-3
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 5 >999 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.02	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/TPI2014	Matrix-R	Wind(LL) 0.00 5 >999 240 Weight: 6 lb FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-10-3 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=46(LC 8)

Max Uplift 5=-26(LC 8), 3=-29(LC 8) Max Grav 5=169(LC 1), 3=42(LC 1), 4=30(LC 3)

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

NOTES-

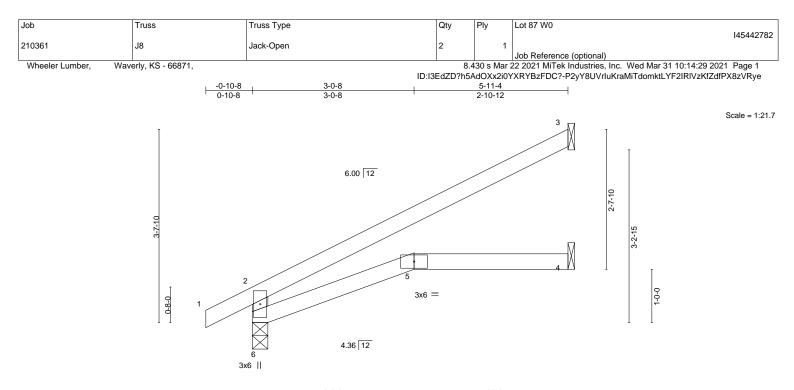
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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) 5, 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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					3-0-8 3-0-8	+		5-11-4 2-10-12				
	u /		2-0-0	CSI.		DEFL		(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(L	,	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(0	, -	5	>598	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(- /	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matrix	(-R	Wind(LL) 0.04	5-6	>999	240	Weight: 16 lb	FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. 6=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 6=89(LC 8) Max Uplift 3=-59(LC 8) Max Grav 6=336(LC 1), 3=180(LC 1), 4=108(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-6=-292/46

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.

* 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 3) 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.

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.



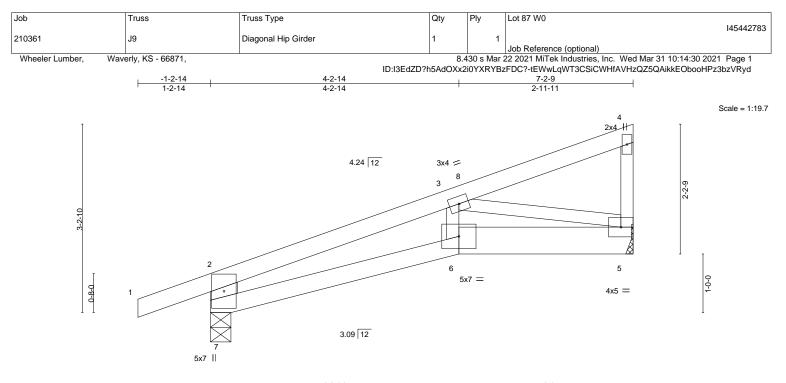
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LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	тс	0.56	Vert(LL)	-0.04	6	>999	360	MT20	197/144
CDL 10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.08	6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.03	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TP	12014	Matrix	-S	Wind(LL)	0.04	6	>999	240	Weight: 25 lb	FT = 10%

BRACING-

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x6 SPF No.2 *Except*
	6-7: 2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except*
	2-7: 2x6 SPF No.2

- TOP CHORD Structural wood sheathing directly applied or 5-9-14 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-4-3, 5=Mechanical Max Horz 7=120(LC 5) Max Uplift 7=-129(LC 4), 5=-91(LC 8) Max Grav 7=470(LC 1), 5=364(LC 1)

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

- TOP CHORD 2-7=-561/190, 2-3=-783/184
- BOT CHORD 6-7=-205/690, 5-6=-200/705
- WEBS 3-6=-27/329, 3-5=-700/218

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) 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) 5 except (jt=lb) 7=129.
- 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) 69 lb down and 38 lb up at 4-5-10, and 69 lb down and 38 lb up at 4-5-10 on top chord, and 56 lb down and 31 lb up at 4-2-14, and 56 lb down and 31 lb up at 4-2-14 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

 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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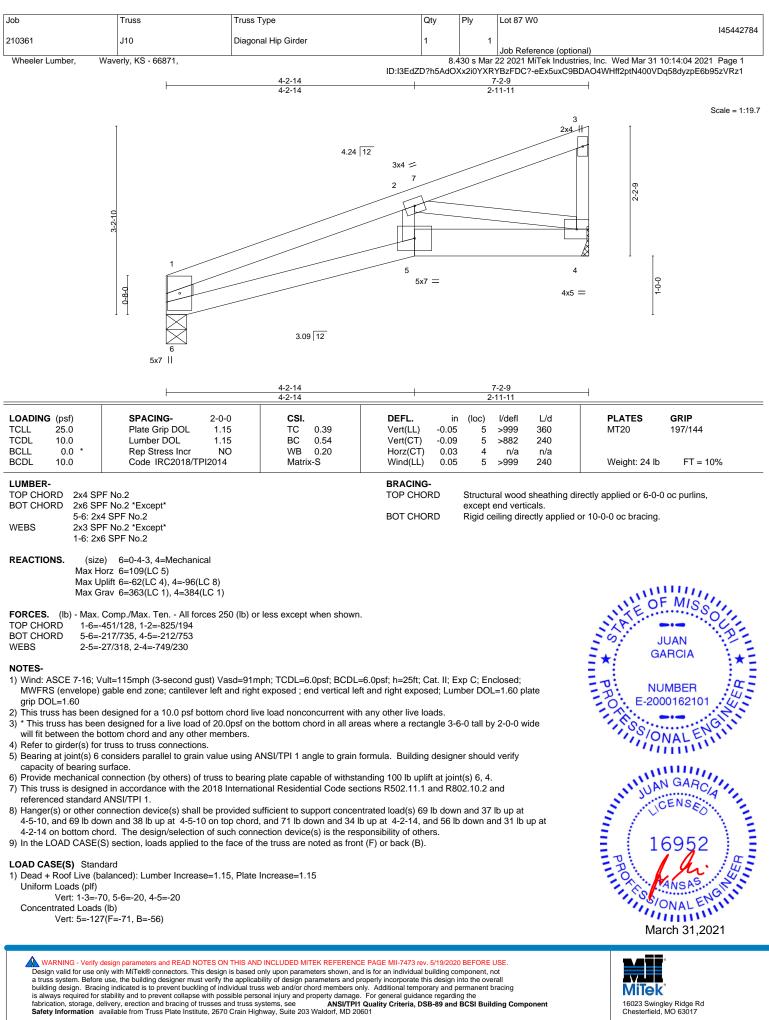
Job	Truss	Truss Type	Qty	Ply	Lot 87 W0
					145442783
210361	J9	Diagonal Hip Girder	1	1	
		č .			Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,		8.4	130 s Mar 2	22 2021 MiTek Industries, Inc. Wed Mar 31 10:14:30 2021 Page 2

ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-tEWwLqWT3CSiCWHfAVHzQZ5QAikkEObooHPz3bzVRyd

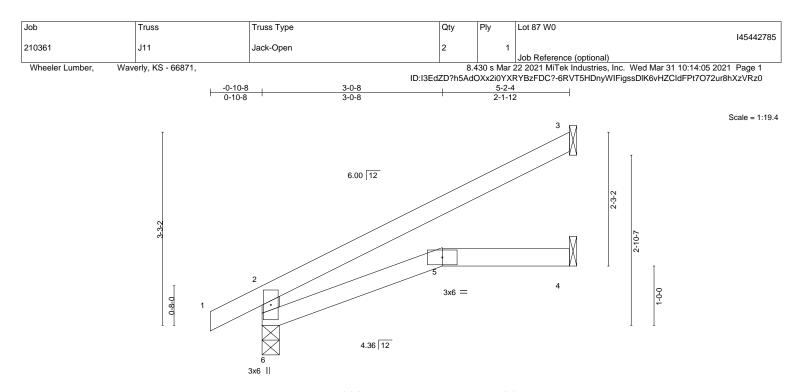
LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 6=-112(F=-56, B=-56)





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			+		3-0-8 3-0-8			5-2- 2-1-				
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	0.38	Vert(LL)	-0.03	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.07	5-6	>907	240		
BCLL	0.0 *	Rep Stress Incr	YES	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	5-6	>999	240	Weight: 14 lb	FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-2-4 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. 6=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 6=113(LC 8) Max Uplift 6=-32(LC 8), 3=-86(LC 8) Max Grav 6=303(LC 1), 3=156(LC 1), 4=94(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-6=-264/80

NOTES-

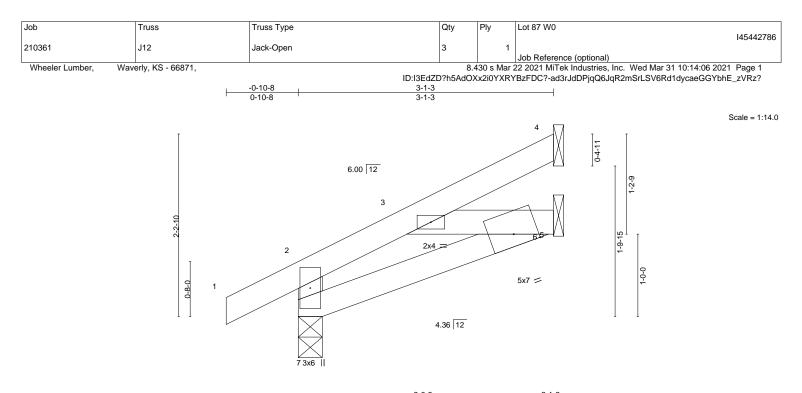
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for 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) 6, 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.



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		<u> </u>	3-0-8 3-0-8	<u>3-1</u> 3 0-0-11	
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 0.09	Vert(LL) -0.00	3 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.00	6-7 >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	3 >999 240	Weight: 11 lb FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

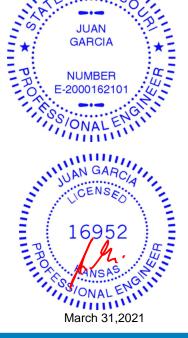
Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 6=Mechanical Max Horz 7=70(LC 8) Max Uplift 7=-20(LC 8), 4=-28(LC 8), 6=-2(LC 8) Max Grav 7=224(LC 1), 4=59(LC 1), 6=112(LC 3)

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

NOTES-

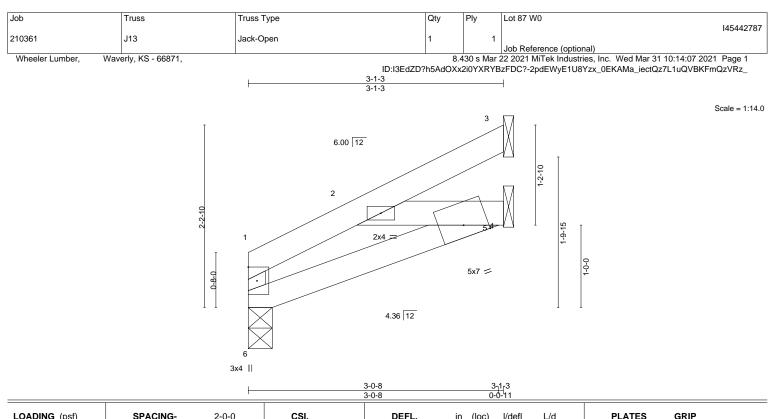
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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) 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, 6.
- 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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						3-0-8		0-	-0-11			
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	0.12	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	5-6	>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/TP	12014	Matri	x-R	Wind(LL)	0.00	2	>999	240	Weight: 10 lb	FT = 10%

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

BRACING-TOP CHORD

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

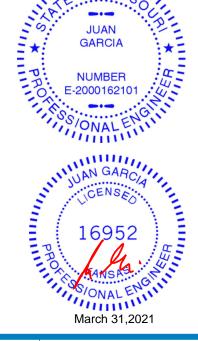
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 5=Mechanical Max Horz 6=53(LC 8) Max Uplift 3=-28(LC 8), 5=-6(LC 8) Max Grav 6=141(LC 1), 3=58(LC 1), 5=117(LC 3)

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

NOTES-

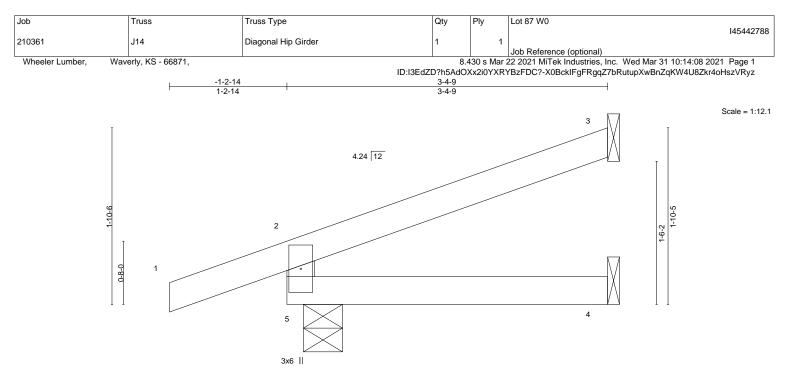
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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) 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, 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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			<u>0-2-1</u> 0-2-1		3-4-9 3-2-8				}	
LOADIN TCLL	G (psf) 25.0	SPACING- 2-0 Plate Grip DOL 1.			E FL. in ert(LL) -0.00	(loc) 4-5	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL BCLL	10.0 0.0 *		-		ert(CT) -0.01 orz(CT) -0.00	4-5 3	>999 n/a	240 n/a		
BCDL	10.0	Code IRC2018/TPI201	4 Matrix-I	R W	ind(LL) 0.00	4-5	>999	240	Weight: 10 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 5=0-4-15, 3=Mechanical, 4=Mechanical (size) Max Horz 5=73(LC 12)

Max Uplift 5=-95(LC 6), 3=-51(LC 12), 4=-1(LC 19) Max Grav 5=116(LC 1), 3=50(LC 1), 4=44(LC 3)

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.
- * 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 3) 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, 3, 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. 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 25 lb down and 9 lb up at
- -1-2-14, and 25 lb down and 9 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).

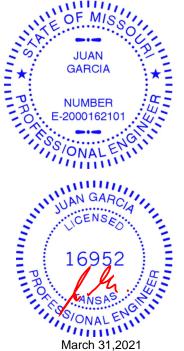
LOAD CASE(S) Standard

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

Concentrated Loads (lb) Vert: 1=-38(F=-19, B=-19)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-24(F=23, B=23), 2=-3(F=34, B=34)-to-3=-59(F=5, B=5), 5=0(F=10, B=10)-to-4=-17(F=2, B=2)



March 31,2021

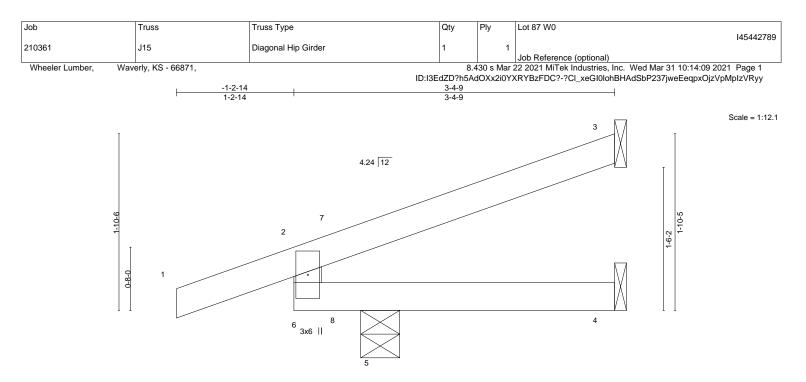


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Structural wood sheathing directly applied or 3-4-9 oc purlins,

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

except end verticals.



		0-8-7	<u>3-4-9</u> 2-8-2	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.17 BC 0.18 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 4-5 >999 360 Vert(CT) 0.01 4-5 >999 240 Horz(CT) -0.01 3 n/a n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.01 4-5 >999 240	Weight: 10 lb FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-4-9 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 3=Mechanical, 4=Mechanical, 5=0-4-15 (size) Max Horz 5=76(LC 12) Max Uplift 3=-57(LC 12), 4=-22(LC 1), 5=-130(LC 6)

Max Grav 3=23(LC 1), 4=26(LC 4), 5=165(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) 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 3) 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=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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 31 lb down and 12 lb up at -1-2-14, and 31 lb down and 12 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=-48(F=-24, B=-24)
- Trapezoidal Loads (plf)
 - Vert: 1=0(F=35, B=35)-to-2=-24(F=23, B=23), 2=-24(F=23, B=23)-to-7=-31(F=19, B=19), 7=0(F=35, B=35)-to-3=-49(F=10, B=10), 7=0(F=35, B=35)-to-2=-24(F=23, B=23), 2=-24(F=23, B=23)-to-7=-31(F=19, B=19), 7=0(F=35, B=35)-to-3=-49(F=10, B=10), 7=0(F=35, B=10), 7=0(F=35, B=35)-to-3=-49(F=10, B=10), 7=0(F=35, B=10), 7 B=10), 6=0(F=10, B=10)-to-8=-6(F=7, B=7), 8=0(F=10, B=10)-to-4=-14(F=3, B=3)

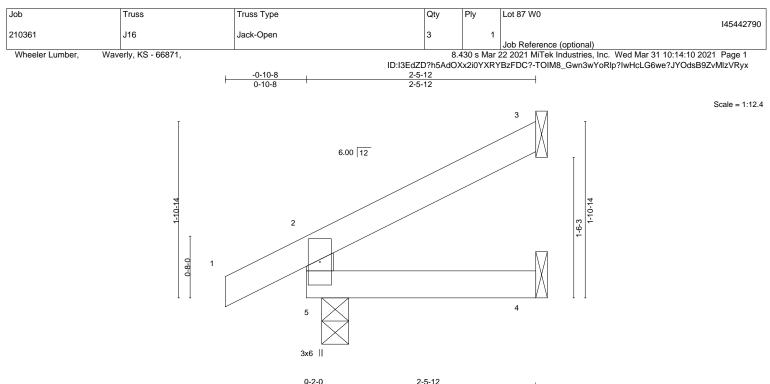
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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

March 31,2021



			0-2-0	2-3-12			
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	4-5 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.04	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	4-5 >999	240	Weight: 7 lb FT = 10%

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

2x4 SPF No.2

REACTIONS.

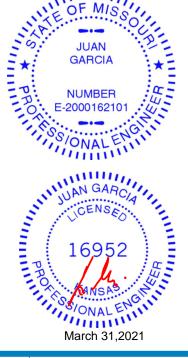
5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=58(LC 8) Max Uplift 5=-27(LC 8), 3=-40(LC 8)

Max Grav 5=190(LC 1), 3=64(LC 1), 4=42(LC 3)

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.
- * 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 3) 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, 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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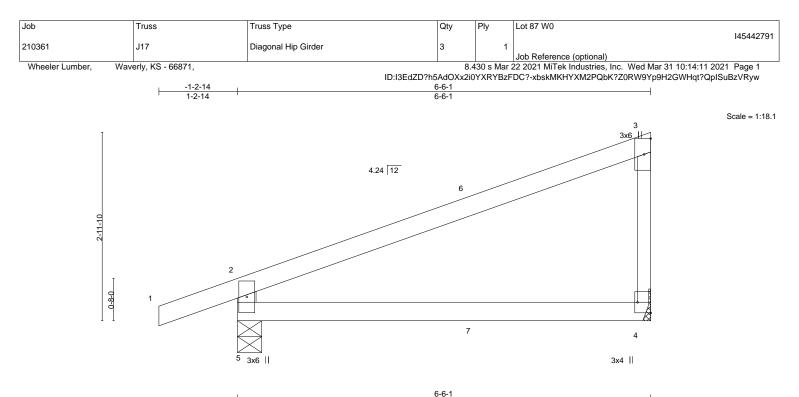
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-5-12 oc purlins, except end verticals.

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



			6-6-1			1	
Plate Offsets (X,Y)-	- [4:Edge,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 0.61	Vert(LL) -0.06	4-5 >999	360	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.36	Vert(CT) -0.13	4-5 >578	240		
CLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	4 n/a	n/a		
3CDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.03	4-5 >999	240	Weight: 19 lb	FT = 10%
			BRACING				

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2 *Except*

 3-4: 2x3 SPF No.2

BRACING-TOP CHORD Structural wood sheathin except end verticals. BOT CHORD Rigid ceiling directly app

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

REACTIONS. (size) 5=0-4-9, 4=Mechanical Max Horz 5=126(LC 22) Max Uplift 5=-107(LC 4), 4=-61(LC 8) Max Grav 5=390(LC 1), 4=273(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-342/154

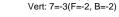
NOTES-

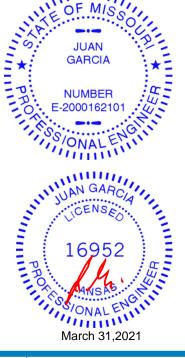
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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) 5=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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 50 lb up at 3-9-3, and 76 lb down and 50 lb up at 3-9-3 on top chord, and 8 lb down at 3-9-3, and 8 lb down at 3-9-3 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)

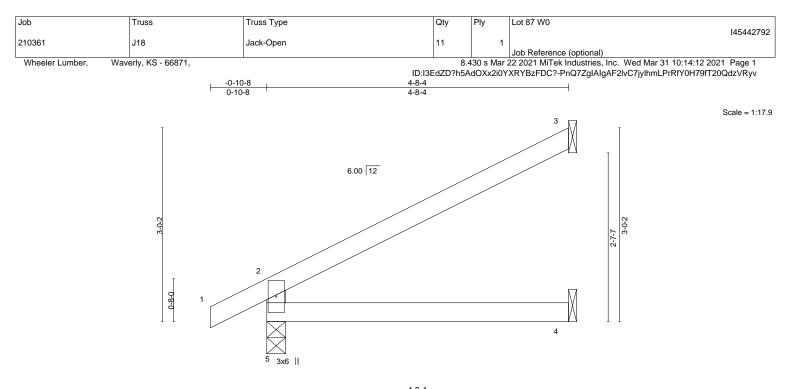
Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb)





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			4-8-4 4-8-4				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	()	l/defl L/d		RIP
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.30 BC 0.18	Vert(LL) -0.02 Vert(CT) -0.04		>999 360 >999 240	MT20 19	07/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) 0.01 Wind(LL) 0.02	3 4-5	n/a n/a >999 240	Weight: 13 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 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 4-8-4 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=72(LC 8) Max Uplift 3=-46(LC 8)

Max Grav 5=281(LC 1), 3=139(LC 1), 4=84(LC 3)

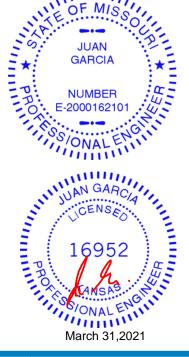
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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); 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.
- 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.

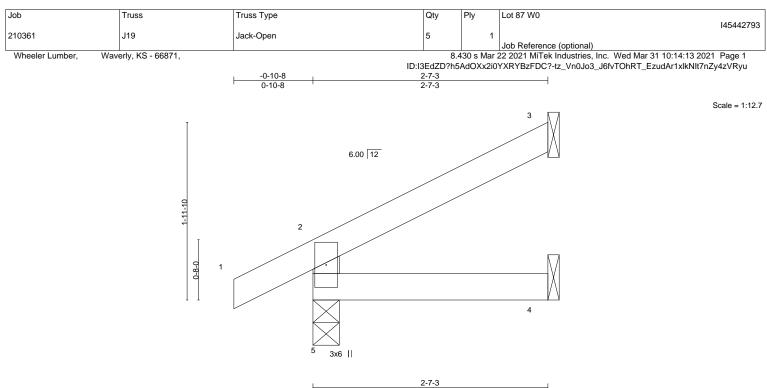
4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 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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					1	2-7	-3					
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	0.07	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	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/TPI2	2014	Matriz	(-R	Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

BRACING-

BOT CHORD

Structural wood sheathing directly applied or 2-7-3 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=61(LC 8)

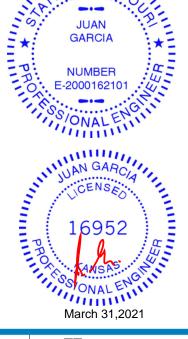
Max Uplift 5=-27(LC 8), 3=-42(LC 8)

Max Grav 5=194(LC 1), 3=68(LC 1), 4=44(LC 3)

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

NOTES-

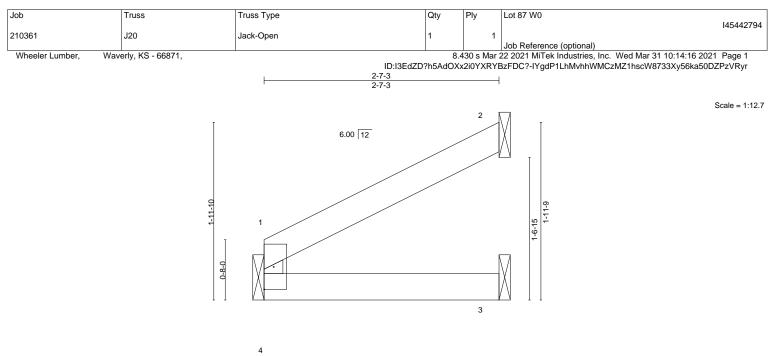
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 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) 5, 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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3x6 ||

2-7-3

						2-7-3						
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	0.09	Vert(LL)	-0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	3-4	>999	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/T	PI2014	Matri	x-R	Wind(LL)	0.00	3-4	>999	240	Weight: 7 lb	FT = 10%
						- ()						

LUMBER-

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-7-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD

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

Max Horz 4=44(LC 8) Max Uplift 2=-46(LC 8)

Max Grav 4=109(LC 1), 2=80(LC 1), 3=47(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.
- * 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 3) will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.

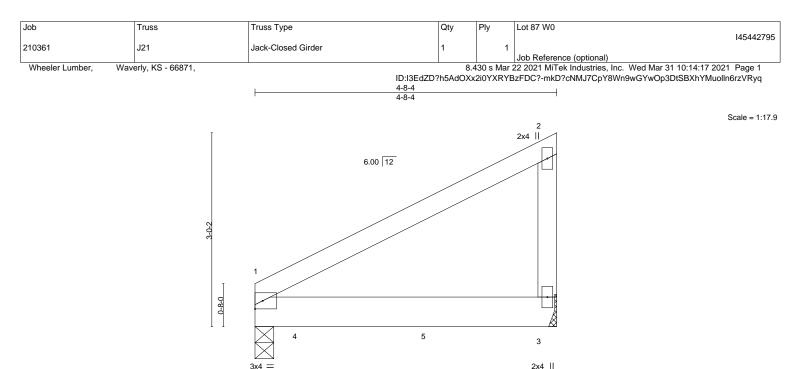


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except end verticals.

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

Rigid ceiling directly applied or 5-2-6 oc bracing.

			<u>4-8-4</u> <u>4-8-4</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	TC 0.47	Vert(LL)	-0.07	1-3	>810	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT)	-0.12	1-3	>447	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/TPI2014	Matrix-P	Wind(LL)	0.05	1-3	>999	240	Weight: 20 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

104

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x6 SP DSS

WEBS 2x4 SPF No.2

REACTIONS. (size) 1=0-3-8, 3=Mechanical Max Horz 1=106(LC 5) Max Uplift 1=-117(LC 8), 3=-180(LC 8)

Max Grav 1=890(LC 1), 3=1100(LC 1)

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

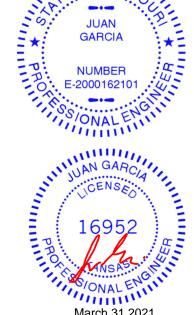
NOTES-

- 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.
- * 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 3) will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1 = 117, 3 = 180.
- 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) 93 lb down and 16 lb up at 0-9-0, and 1501 lb down and 221 lb up at 2-9-0 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
- Vert: 1-2=-70, 1-3=-20
- Concentrated Loads (lb)
 - Vert: 4=-93(B) 5=-1501(B)

Uniform Loads (plf)



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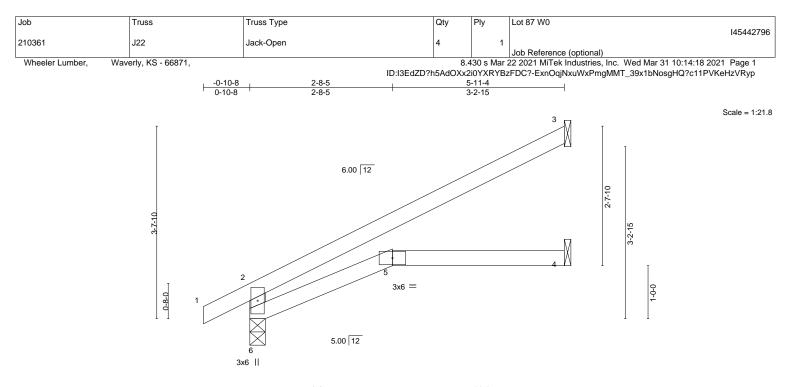
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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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	F	<u>2-8-5</u> 2-8-5	5-11-4 3-2-15	
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 0.53 BC 0.29 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.05 4-5 >999 360 Vert(CT) -0.11 4-5 >600 240 Horz(CT) 0.05 4 n/a n/a Wind(LL) 0.04 5 >999 240	PLATES GRIP MT20 197/144 Weight: 16 lb FT = 10%

LUMBER-

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. 6=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 6=89(LC 8) Max Uplift 3=-59(LC 8) Max Grav 6=336(LC 1), 3=180(LC 1), 4=108(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-6=-292/46

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.

* 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 3) 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.

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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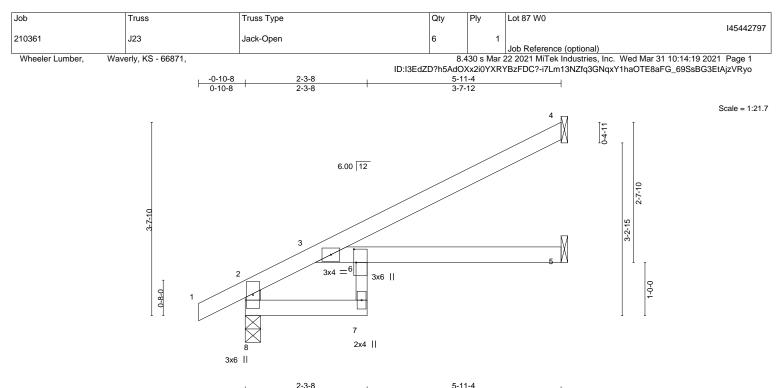


Plate Off	sets (X.Y)	[6:0-3-0,0-0-8]		2-3-8			3-7-1					
		· · ·				5-51		<i>a</i> >			DI 4750	
LOADING	j (pst)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.07	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.13	5-6	>512	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	0.06	5-6	>999	240	Weight: 18 lb	FT = 10%

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2 *Except*
	6-7: 2x3 SPF No.2
WEBS	2x4 SPF No.2

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

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=90(LC 8) Max Uplift 4=-47(LC 8)

Max Grav 8=348(LC 1), 4=164(LC 1), 5=113(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-345/16

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.
- * 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 3Ì 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.
- 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.

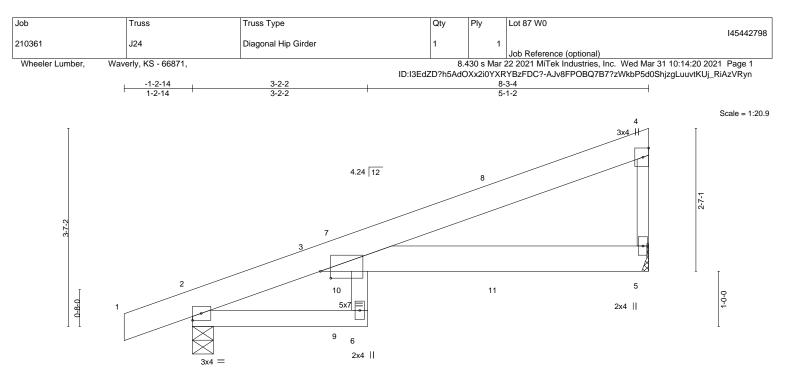


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			3-2-2	8-3-4	
			3-2-2	5-1-2	
Plate Offsets (X,Y)	[3:0-2-4,0-1-8]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL) -0.11 6 >860 360	MT20 197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT) -0.21 6 >466 240	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT) 0.08 5 n/a n/a	

BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.12	2 6	>802	240	Weight: 35 lb	FT = 10%
LUMBER-				BRACING-					
TOP CHO		PF No.2		TOP CHORD			0	rectly applied or 6-0-0 o	oc purlins,
BOT CHO	ORD 2x6 SP	PF No.2 *Except*				end vert			
	2-6: 2x	4 SPF No.2		BOT CHORD	Rigid o	ceiling dir	ectly applied	or 6-0-0 oc bracing.	
WEBS	2v3 SP	PE No 2 *Except*							

REACTIONS. (size) 5=Mechanical, 2=0-4-9 Max Horz 2=128(LC 5) Max Uplift 5=-118(LC 8), 2=-134(LC 4)

3-6: 2x4 SPF No.2

Max Grav 5=402(LC 1), 2=500(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 4-5=-256/102

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.
- * 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 3) will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=118. 2=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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 34 lb up at 2-8-7, 68 lb down and 34 lb up at 2-8-7, and 93 lb down and 55 lb up at 5-6-6, and 93 lb down and 55 lb up at 5-6-6 on top chord, and 3 lb down and 1 lb up at 2-8-7, 3 lb down and 1 lb up at 2-8-7, and 28 lb down and 31 lb up at 5-6-6, and 28 lb down and 31 lb up at 5-6-6 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, 2-6=-20, 3-5=-20 Concentrated Loads (lb) Vert: 8=-17(F=-8, B=-8) 9=3(F=1, B=1) 11=-56(F=-28, B=-28)

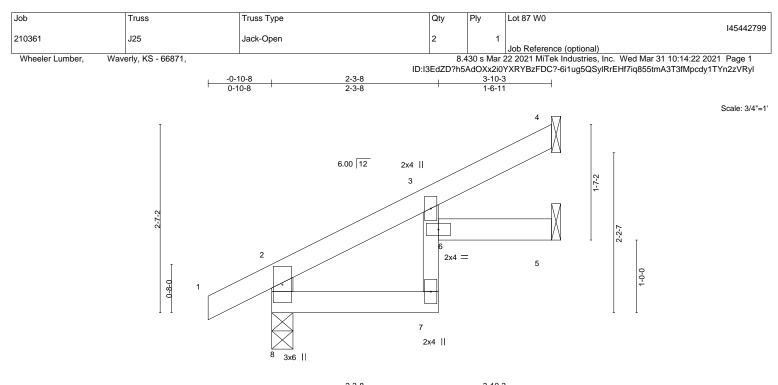
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		2-3-8			3-10-3 1-6-11			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in ((loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL)	-0.01	6	>999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT)	-0.02	7	>999	240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.01	5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.01	7	>999	240	Weight: 12 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* BOT CHORD 3-7: 2x3 SPF No.2 WEBS 2x4 SPF No.2

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

Max Horz 8=86(LC 8) Max Uplift 8=-29(LC 8), 4=-44(LC 8), 5=-11(LC 8)

Max Grav 8=245(LC 1), 4=98(LC 1), 5=58(LC 3)

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) 8, 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.

Will & PROIN JUAN GARCIA NUMBER F -2000162101 ONALE, JUAN GARCIA ICENSEO 1695 MULLIN III March 31,2021

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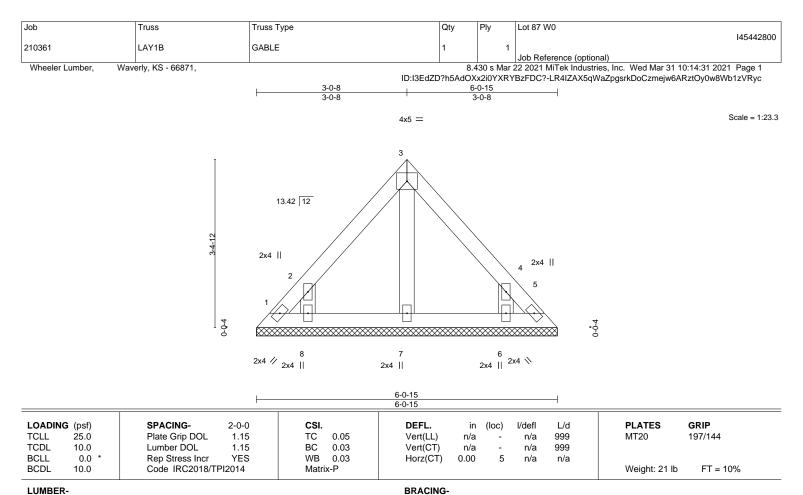
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Structural wood sheathing directly applied or 3-10-3 oc purlins,

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

except end verticals.





BOT CHORD

LUI	MBE	ER-

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 6-0-15.

Max Horz 1=-82(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-143(LC 8), 6=-143(LC 9) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

NOTES-

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=143. 6=143.

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.

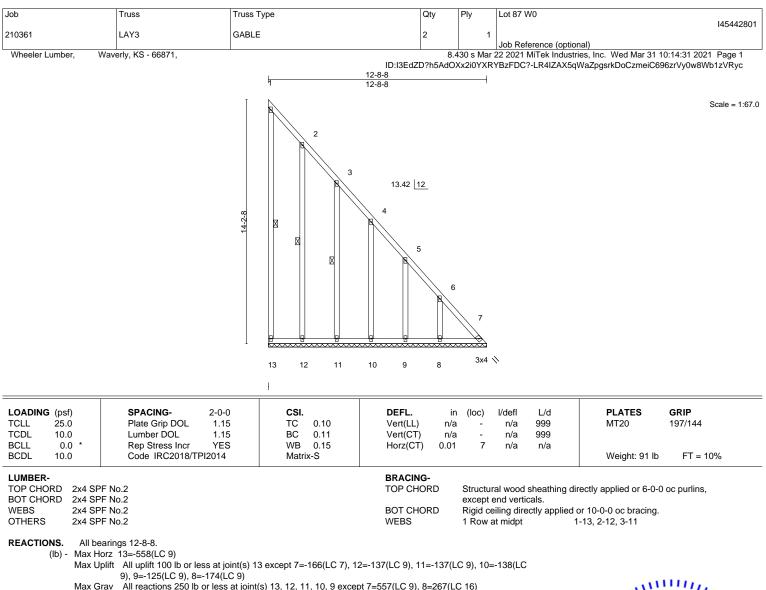


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

March 31,2021

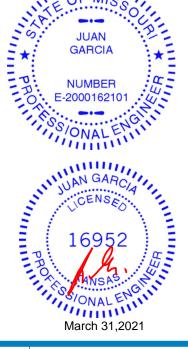




- Max Grav All reactions 250 lb or less at joint(s) 13, 12, 11, 10, 9 except 7=557(LC 9), 8=267(LC 16)
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- 3-4=-339/141, 4-5=-477/195, 5-6=-607/242, 6-7=-772/313 TOP CHORD BOT CHORD 12-13=-214/558, 11-12=-214/558, 10-11=-214/558, 9-10=-214/558, 8-9=-214/558, 7-8=-214/558

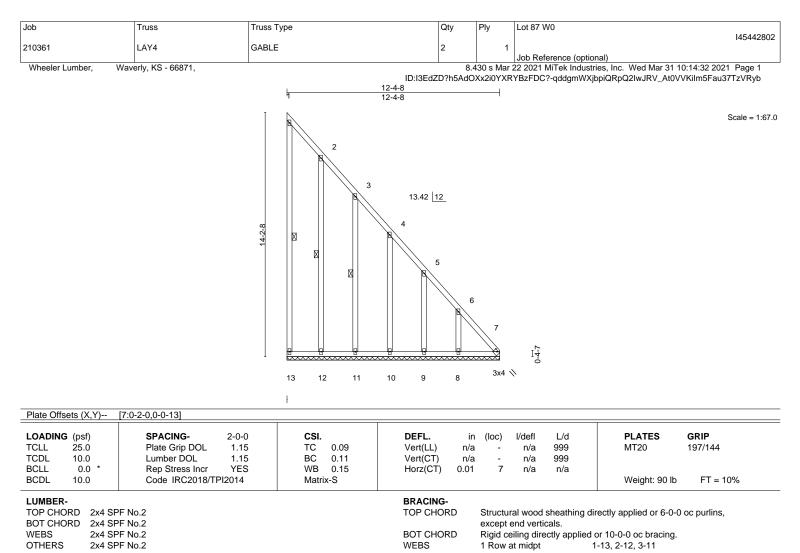
NOTES-

- 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 right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 13 except (jt=lb) 7=166, 12=137, 11=137, 10=138, 9=125, 8=174.
- 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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REACTIONS. All bearings 12-4-8.

(lb) - Max Horz 13=-558(LC 9)

Max Uplift All uplift 100 b or less at joint(s) 13 except 7=-184(LC 7), 12=-137(LC 9), 11=-137(LC 9), 10=-137(LC 9), 9=-126(LC 9), 8=-209(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 13, 12, 11, 10, 9 except 7=597(LC 9), 8=267(LC 16)

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

TOP CHORD 3-4=-339/141, 4-5=-477/195, 5-6=-608/243, 6-7=-800/324

BOT CHORD 12-13=-214/558, 11-12=-214/558, 10-11=-214/558, 9-10=-214/558, 8-9=-214/558, 7-8=-214/558

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 right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

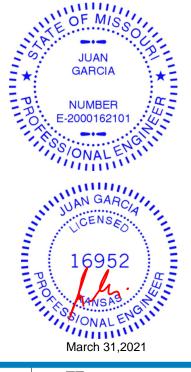
3) Gable requires continuous bottom chord bearing.

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

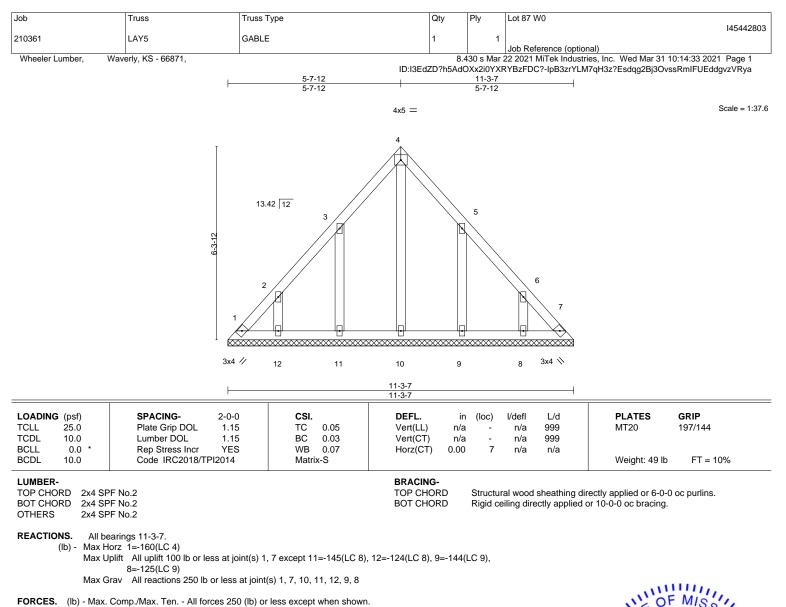
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

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) 13 except (jt=lb) 7=184, 12=137, 11=137, 10=137, 9=126, 8=209.

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



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

NOTES-

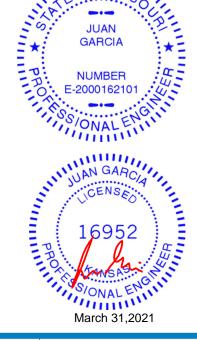
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber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

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.

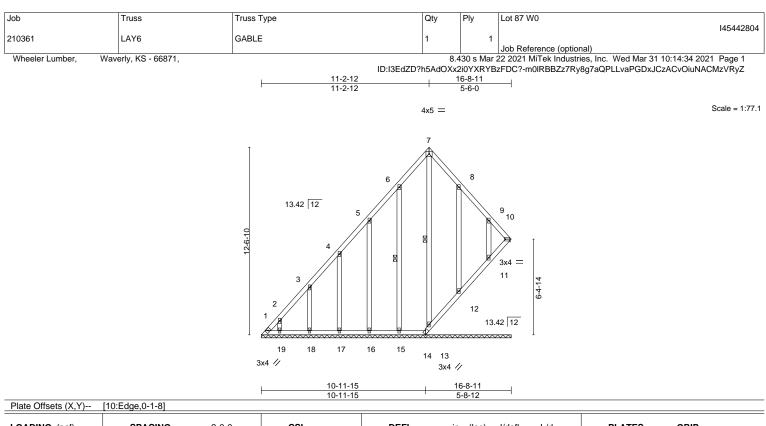
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6)
- will fit between the bottom chord and any other members. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=145, 12=124, 9=144, 8=125,
- 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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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 0.07 BC 0.04 WB 0.17 Matrix-S	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.01	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 105 lb	GRIP 197/144 FT = 10%
LUMBER-			BRACING-					

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

TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 7-13, 6-15

REACTIONS. All bearings 16-8-11.

Max Horz 1=360(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-184(LC 6), 10=-139(LC 7), 14=-155(LC 9), 15=-133(LC 8), 16=-140(LC 8), 17=-134(LC 8), 18=-140(LC 8), 19=-114(LC 8), 12=-134(LC 9), 11=-129(LC 9) Max Grav All reactions 250 lb or less at joint(s) 10, 14, 13, 15, 16, 17, 18, 19, 12, 11 except 1=406(LC 8)

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

1-2=-546/268, 2-3=-442/230, 3-4=-301/175 TOP CHORD

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.
- * 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 184 lb uplift at joint 1, 139 lb uplift at joint 10, 155 lb uplift at joint 14, 133 lb uplift at joint 15, 140 lb uplift at joint 16, 134 lb uplift at joint 17, 140 lb uplift at joint 18, 114 lb uplift at joint 19, 134 lb uplift at joint 12 and 129 lb uplift at joint 11.

8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 13, 12, 11.

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



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ſ	Job	Truss	Truss Type	Qty	Ply	Lot 87 W0
	210361	LAY7	GABLE	4	1	145442805
1	210301		GADLE			Job Reference (optional)
	Wheeler Lumber, Wave	erly, KS - 66871,		8.4	30 s Mar	22 2021 MiTek Industries, Inc. Wed Mar 31 10:14:35 2021 Page 1

r 22 2021 MiTek Industries. Ind ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-ECJpOXabuk4?IH9dz2t87col1jV6vfDXxY6kkozVRyY

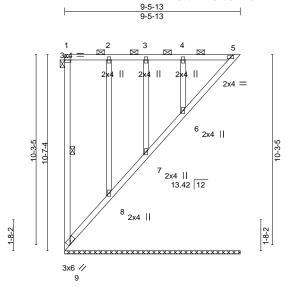
2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals.

1-9

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

1 Row at midpt

Scale = 1:62.2





TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

REACTIONS. All bearings 9-5-13.

(lb) -Max Horz 9=-286(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 8, 7, 6 except 9=-147(LC 6), 5=-141(LC 5) Max Grav All reactions 250 lb or less at joint(s) 9, 5, 8, 7 except 6=259(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. BOT CHORD 8-9=-213/290

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

Provide adequate drainage to prevent water ponding.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 7, 6 except (jt=lb) 9=147, 5=141.

8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 5, 8, 7, 6.

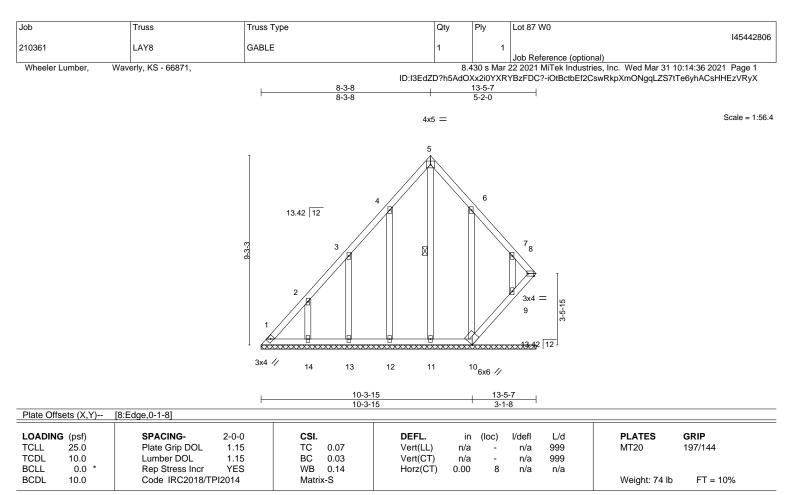
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.







LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2OTHERS2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 5-11

REACTIONS. All bearings 13-5-7.

(lb) - Max Horz 1=235(LC 8)

1-2=-342/190

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-137(LC 7), 12=-140(LC 8), 13=-133(LC 8), 14=-151(LC 8), 10=-277(LC 9), 9=-116(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 11, 12, 13, 14, 9 except 8=254(LC 9), 10=260(LC 16)

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

NOTES-

TOP CHORD

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 except (jt=lb) 8=137, 12=140, 13=133, 14=151, 10=277, 9=116.

8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 9.

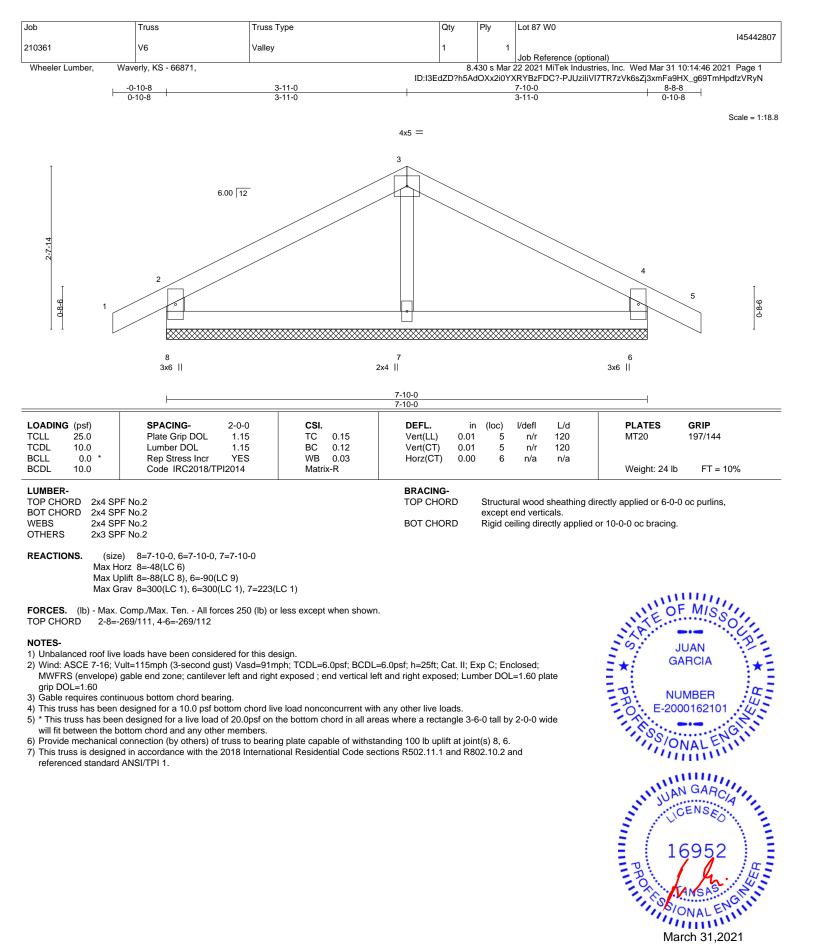
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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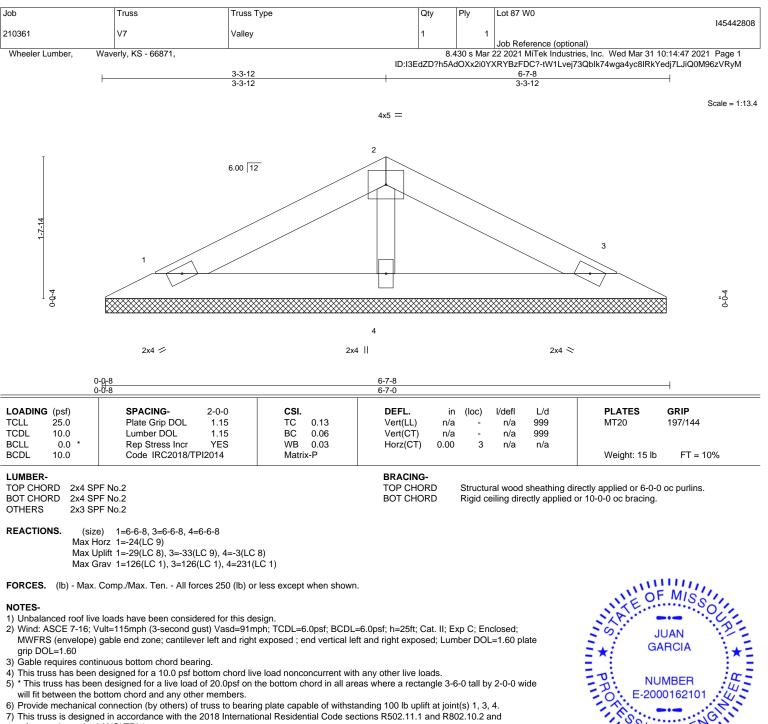




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



March 31,2021

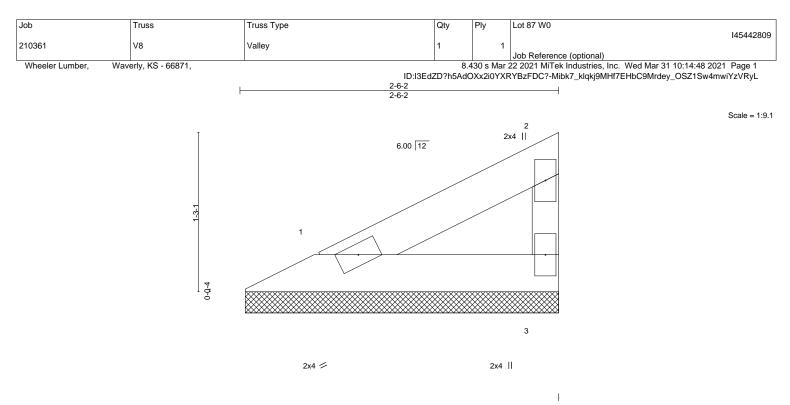


- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4. 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



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 0.05 BC 0.03 WB 0.00 Matrix-P	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 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 6 lb FT = 10%
LUMBER-			BRACING-	

BOT CHORD

LUMBER-

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

REACTIONS. 1=2-5-10, 3=2-5-10 (size) Max Horz 1=37(LC 5)

Max Uplift 1=-10(LC 8), 3=-20(LC 8) Max Grav 1=80(LC 1), 3=80(LC 1)

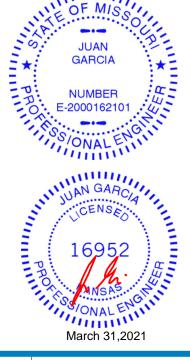
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



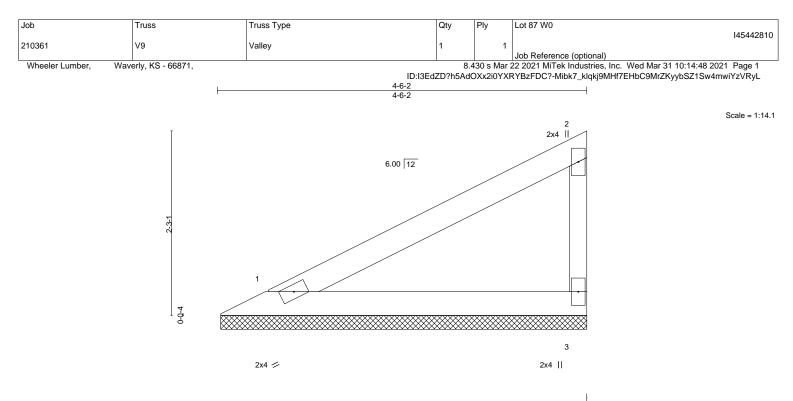
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Structural wood sheathing directly applied or 2-6-2 oc purlins,

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

except end verticals.





LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) n	a -	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) n	a -	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.0	0 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 11 lb	FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. 1=4-5-10, 3=4-5-10 (size) Max Horz 1=79(LC 5)

Max Uplift 1=-22(LC 8), 3=-42(LC 8) Max Grav 1=170(LC 1), 3=170(LC 1)

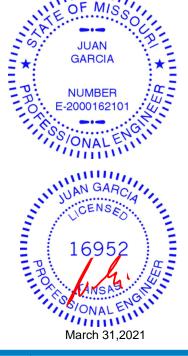
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



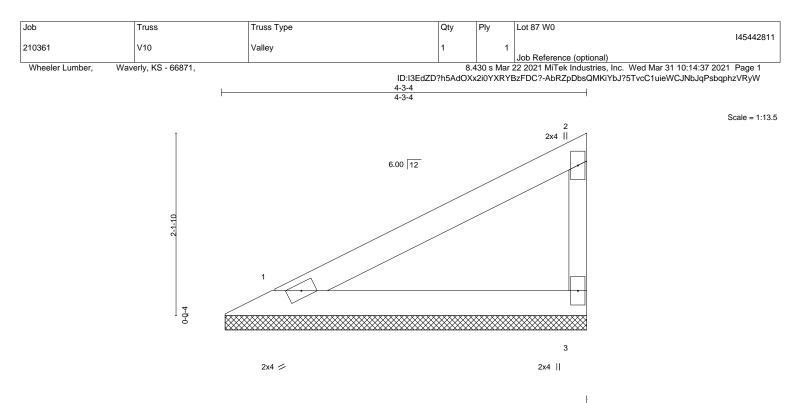
11 1111

Structural wood sheathing directly applied or 4-6-2 oc purlins,

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

except end verticals.





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 0.23	Vert(LL) n/a	- n/a	999	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) n/a	- n/a	999	
CLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3 n/a	n/a	
CDL 10.0	Code IRC2018/TPI2014	Matrix-P				Weight: 11 lb FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. 1=4-2-12, 3=4-2-12 (size) Max Horz 1=74(LC 5)

Max Uplift 1=-20(LC 8), 3=-39(LC 8) Max Grav 1=159(LC 1), 3=159(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Will & PROIN JUAN GARCIA NUMBER E-2000162101 PROPERTY IN GARON 111111 March 31,2021

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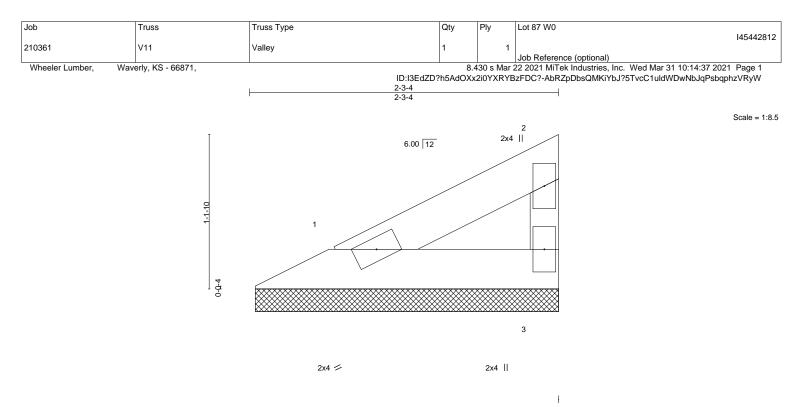
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Structural wood sheathing directly applied or 4-3-4 oc purlins,

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

except end verticals.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15	CSI. TC 0.04 BC 0.02	DEFL. ir Vert(LL) n/a Vert(CT) n/a	-	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 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	Weight: 5 lb	FT = 10%
LUMBER-			BRACING-					

BOT CHORD

LUMBER-

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

REACTIONS. 1=2-2-12, 3=2-2-12 (size) Max Horz 1=32(LC 5) Max Uplift 1=-9(LC 8), 3=-17(LC 8)

Max Grav 1=69(LC 1), 3=69(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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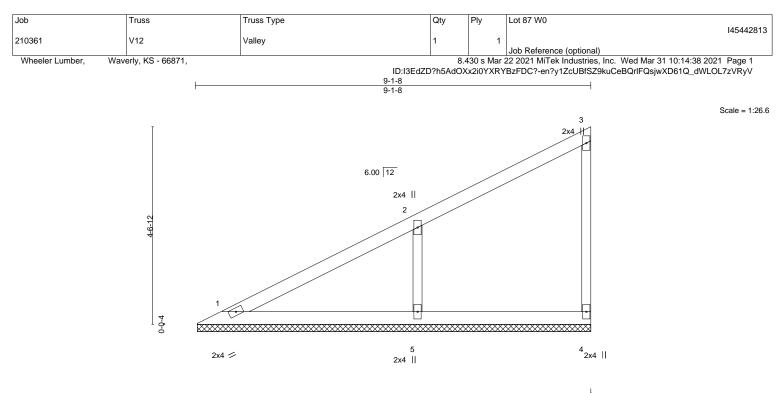
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Structural wood sheathing directly applied or 2-3-4 oc purlins,

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

except end verticals.





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 0.27	Vert(LL)	n/a -	n/a	999	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT)	n/a -	n/a	999		
SCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT)	-0.00 4	n/a	n/a		
SCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 26 lb	FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=9-1-0, 4=9-1-0, 5=9-1-0 Max Horz 1=175(LC 7)

Max Uplift 4=-28(LC 5), 5=-140(LC 8) Max Grav 1=160(LC 1), 4=127(LC 1), 5=468(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-356/189WEBS

NOTES-

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

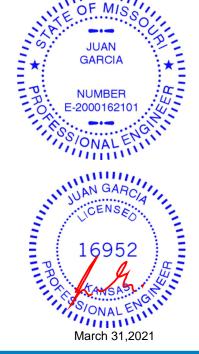
2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 140

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



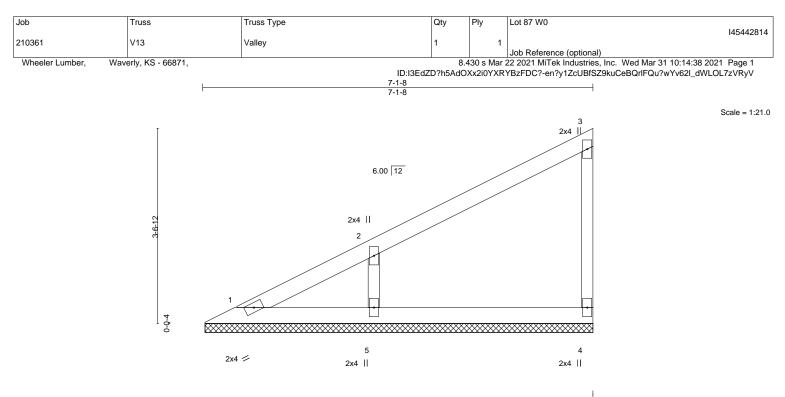
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Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





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 0.19	Vert(LL) n/a -	n/a 999	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) n/a -	n/a 999	
CLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) -0.00 4	n/a n/a	
CDL 10.0	Code IRC2018/TPI2014	Matrix-P	()		Weight: 20 lb FT = 10%

BOT CHORD

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

REACTIONS. (size) 1=7-1-0, 4=7-1-0, 5=7-1-0 Max Horz 1=133(LC 5)

Max Uplift 4=-27(LC 8), 5=-112(LC 8) Max Grav 1=76(LC 16), 4=142(LC 1), 5=374(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-290/162 WEBS

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

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

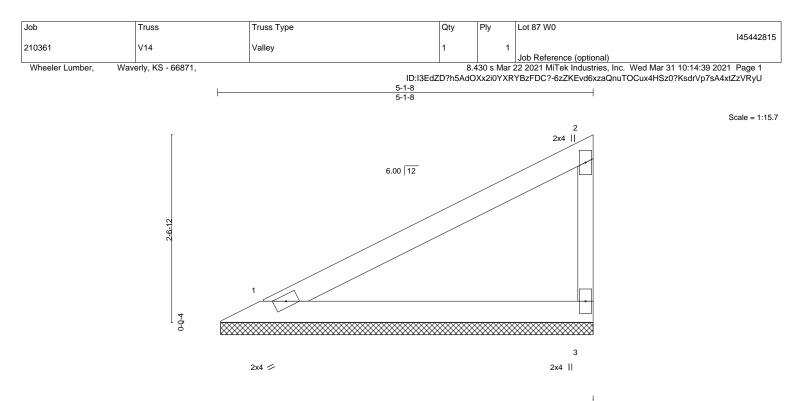


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





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 0.37	Vert(LL) n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.20	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		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 13 lb	FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. 1=5-1-0, 3=5-1-0 (size)

Max Horz 1=92(LC 5) Max Uplift 1=-25(LC 8), 3=-48(LC 8)

Max Grav 1=198(LC 1), 3=198(LC 1)

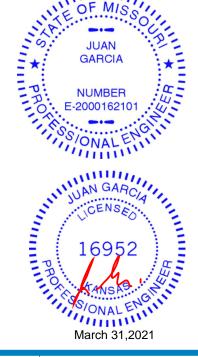
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



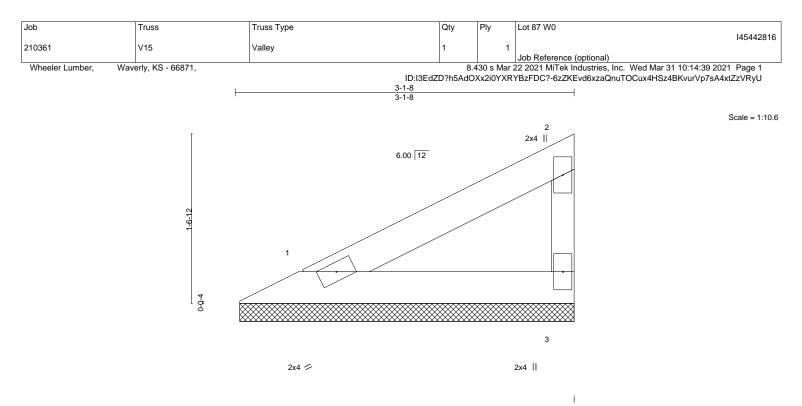
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Structural wood sheathing directly applied or 5-1-8 oc purlins,

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

except end verticals.





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 0.10	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	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	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 7 lb FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. 1=3-1-0, 3=3-1-0 (size)

Max Horz 1=50(LC 5) Max Uplift 1=-14(LC 8), 3=-26(LC 8)

Max Grav 1=108(LC 1), 3=108(LC 1)

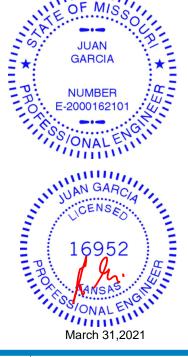
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



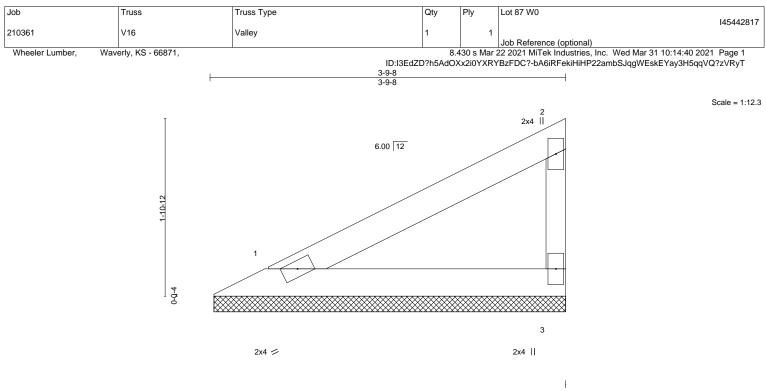
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Structural wood sheathing directly applied or 3-1-8 oc purlins,

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

except end verticals.





OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) n/a - n/a 999	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.09	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: 9 lb FT = 10%

BOT CHORD

LUMBER-

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

REACTIONS. 1=3-9-0, 3=3-9-0 (size)

Max Horz 1=64(LC 5) Max Uplift 1=-18(LC 8), 3=-34(LC 8)

Max Grav 1=138(LC 1), 3=138(LC 1)

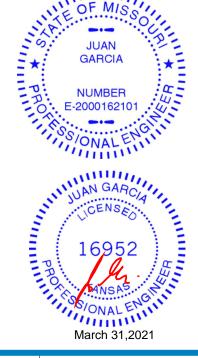
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

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

2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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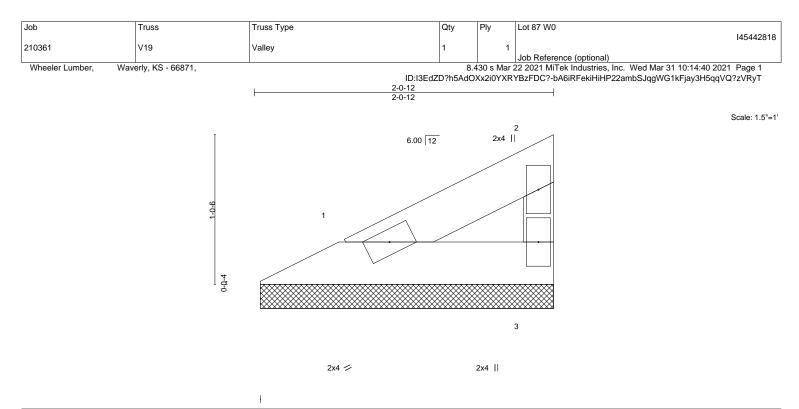
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Structural wood sheathing directly applied or 3-9-8 oc purlins,

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

except end verticals.





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 0.03 BC 0.01 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES GRIP MT20 197/144 Weight: 4 lb FT = 10%
LUMBER- TOP CHORD 2x4 SPI	F No.2		BRACING- TOP CHOR		Structu	ral wood	sheathing di	irectly applied or 2-0-12 oc purlins,

BOT CHORD

except end verticals.

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

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

REACTIONS. (size) 1=2-0-4, 3=2-0-4 Max Horz 1=28(LC 5) Max Uplift 1=-8(LC 8), 3=-15(LC 8)

Max Grav 1=60(LC 1), 3=60(LC 1)

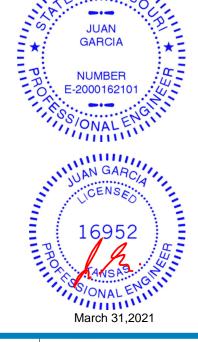
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

2) Gable requires continuous bottom chord bearing.

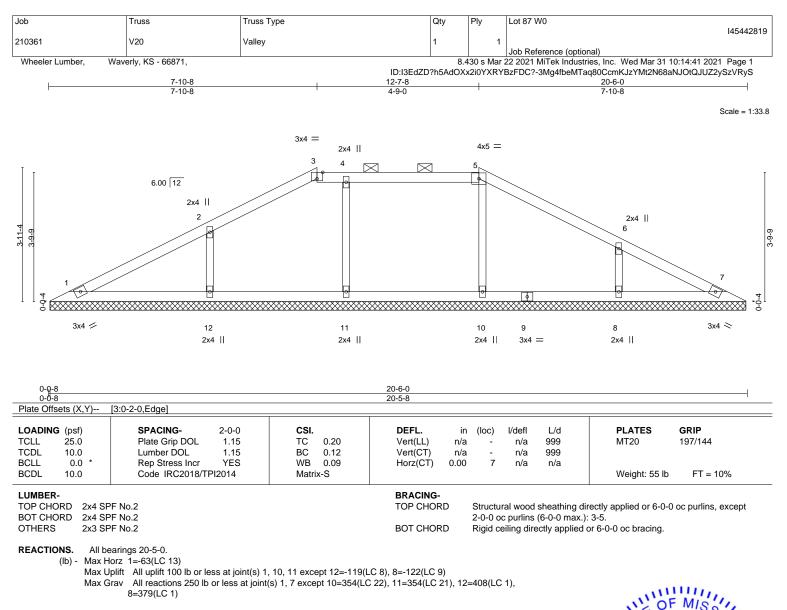
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

WEBS 5-10=-274/81, 4-11=-280/99, 2-12=-308/166, 6-8=-296/165

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

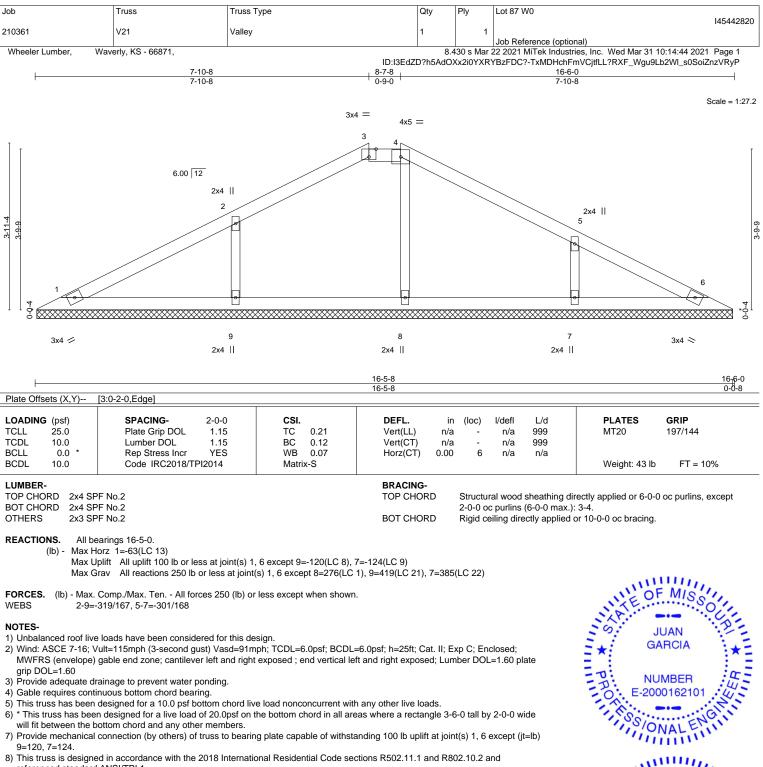
3) Provide adequate drainage to prevent water ponding.

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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 11 except (jt=lb) 12=119, 8=122.
- 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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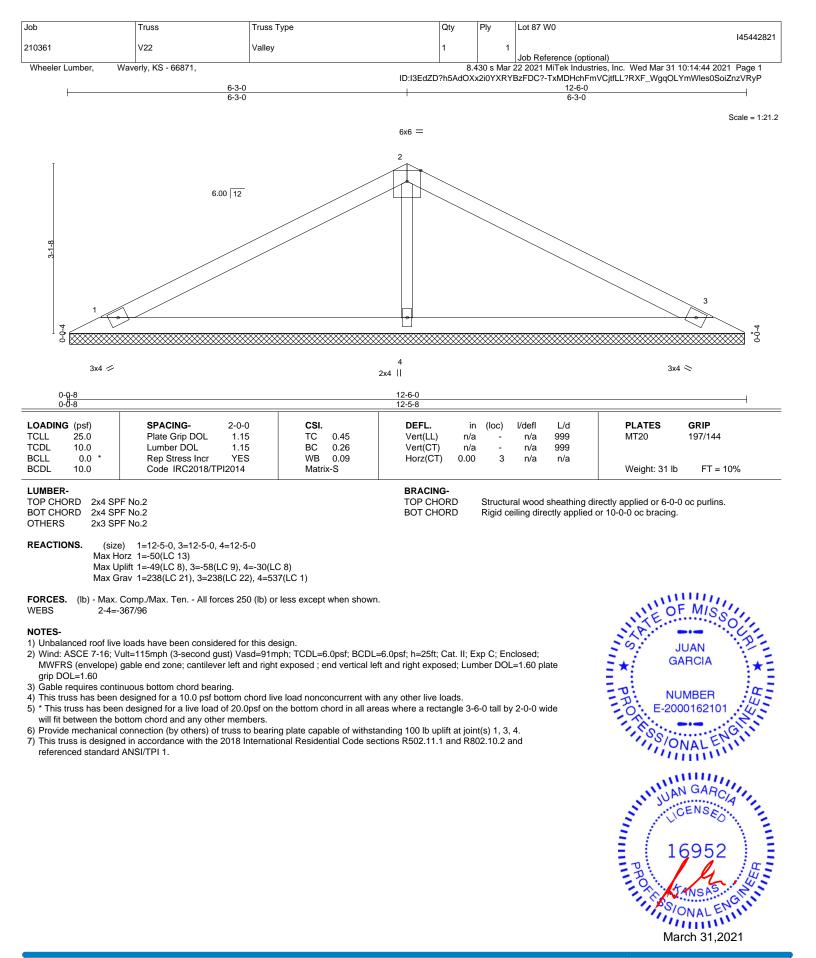


referenced standard ANSI/TPI 1.

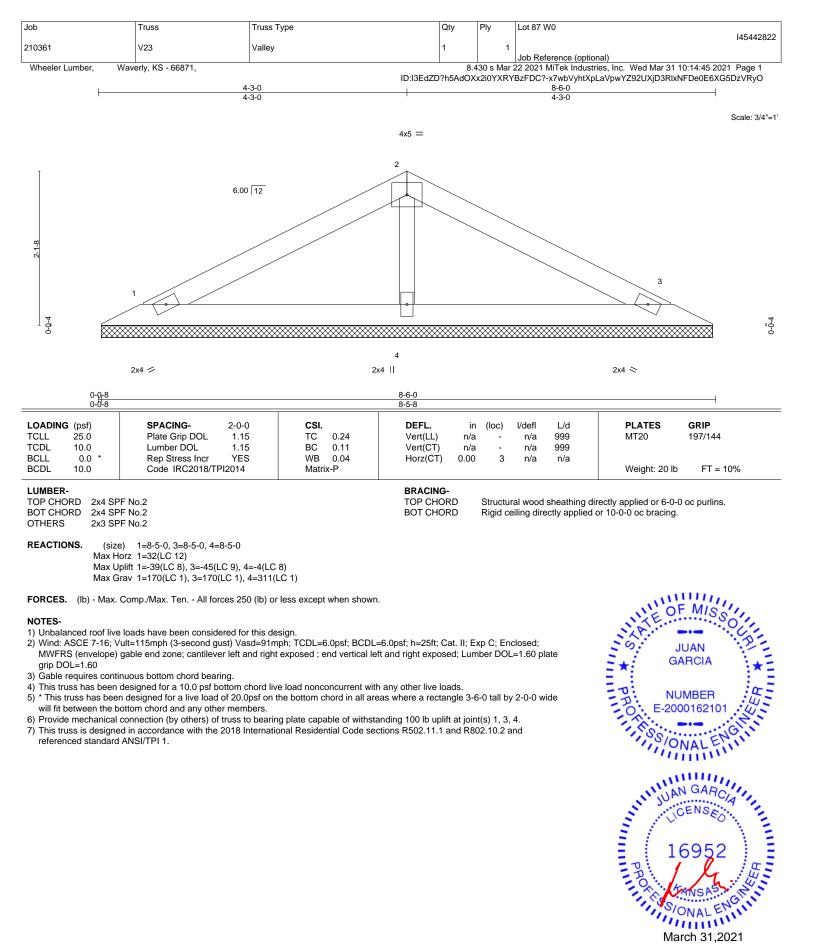
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



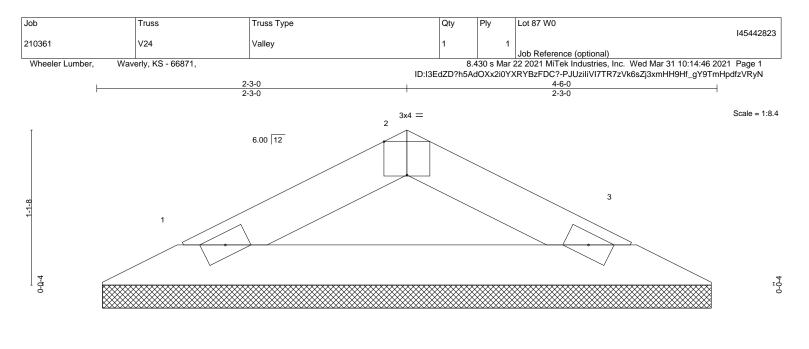
16023 Swingley Ridge Rd Chesterfield, MO 63017



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017







2x4 💋

2x4 \lt

Structural wood sheathing directly applied or 4-6-0 oc purlins.

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

	0- <mark>0-8</mark> 0-0-8					<u>4-6-0</u> 4-5-8						
Plate Offse		[2:0-2-0,Edge]				+ 0 0						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
FCDL	10.0	Lumber DOL	1.15	BC	0.11	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		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P						Weight: 9 lb	FT = 10%

TOP CHORD

BOT CHORD

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

REACTIONS. 1=4-5-0, 3=4-5-0 (size) Max Horz 1=14(LC 8) Max Uplift 1=-18(LC 8), 3=-18(LC 9)

Max Grav 1=146(LC 1), 3=146(LC 1)

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

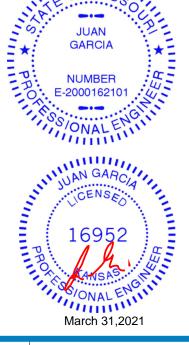
3) Gable requires continuous bottom chord bearing.

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

* 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) 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.



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