



MiTek USA, Inc.

314-434-1200

16023 Swinglev Ridge Rd Chesterfield, MO 63017

RE: 210321 Lot 103 MN

MiTek

Site Information:

Customer: Project Name: 210321 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: N/A Roof Load: 45.0 psf

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

This package includes 87 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	145097618	A1	3/9/2021	21	145097638	C3	3/9/2021
2	145097619	A2	3/9/2021	22	145097639	C4	3/9/2021
3	145097620	A3	3/9/2021	23	145097640	C5	3/9/2021
4	I45097621	A4	3/9/2021	24	I45097641	D1	3/9/2021
5	145097622	B1	3/9/2021	25	145097642	D2	3/9/2021
6	145097623	B2	3/9/2021	26	145097643	D3	3/9/2021
7	145097624	B3	3/9/2021	27	145097644	D4	3/9/2021
8	145097625	B4	3/9/2021	28	145097645	D5	3/9/2021
9	145097626	B5	3/9/2021	29	145097646	D6	3/9/2021
10	145097627	B6	3/9/2021	30	145097647	D7	3/9/2021
11	145097628	B7	3/9/2021	31	145097648	D8	3/9/2021
12	145097629	B8	3/9/2021	32	145097649	D9	3/9/2021
13	145097630	B9	3/9/2021	33	145097650	E5	3/9/2021
14	145097631	B10	3/9/2021	34	145097651	E6	3/9/2021
15	145097632	B11	3/9/2021	35	145097652	E7	3/9/2021
16	145097633	B12	3/9/2021	36	145097653	E8	3/9/2021
17	145097634	B13	3/9/2021	37	145097654	J1	3/9/2021
18	145097635	B14	3/9/2021	38	145097655	J2	3/9/2021
19	145097636	C1	3/9/2021	39	145097656	J3	3/9/2021
20	145097637	C2	3/9/2021	40	145097657	J4	3/9/2021
-		-				-	

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.





RE: 210321 - Lot 103 MN

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

Site Information:

Project Cu Lot/Block: Address: City, Cour	ustomer: Proj	ect Name: 210)321	Subdivi State:	ision:		
City, Cour No. Sea 41 1450 42 1450 43 1450 44 1450 45 1450 46 1450 47 1450 48 1450 50 1450 51 1450 52 1450 53 1450 54 1450 55 1450 56 1450 56 1450 57 1450 58 1450 60 1450 61 1450 61 1450 62 1450 63 1450 64 1450 63 1450 64 1450 66 1450 67 1450 67 1450 67 1450 70 1450 71 1450 71 1450 71 1450 72 1450 73 1450 74 1450 74 1450 75 1450 76 1450 77 1450 76 1450 77 1450 78 1450 79 1450 70 1450 71 1450		Truss Name J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16 J17 J18 J19 J20A J21 J22A J21 J22A J21 J22A J23 J24 J25 J26 J27 J28 J29 J20 J27 J28 J29 J30 J31 J32 J33 J34 J35 J36 LAY1 LAY3 LAY4 LAY5 LAY6 LAY7 LAY8 V1 V2 V3	Date 3/9/2021	State: No. 85 86 87	Seal# 145097703 145097704	Truss Name V8 V9 V10	Date 3/9/2021 3/9/2021
	097700 097701	V4 V5	3/9/2021 3/9/2021				



RE: 210321 Lot 103 MN

Site Information:

Customer: Project Name: 210321 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: N/A Roof Load: 45.0 psf Design Program: MiTek 20/20 8.4 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 87 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	145097618	A1	3/9/2021	21	145097638	C3	3/9/2021
2	145097619	A2	3/9/2021	22	145097639	C4	3/9/2021
3	145097620	A3	3/9/2021	23	145097640	C5	3/9/2021
4	145097621	A4	3/9/2021	24	I45097641	D1	3/9/2021
5	145097622	B1	3/9/2021	25	145097642	D2	3/9/2021
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11	145097628	B7	3/9/2021	31	145097648	D8	3/9/2021
12	145097629	B8	3/9/2021	32	145097649	D9	3/9/2021
13	145097630	B9	3/9/2021	33	145097650	E5	3/9/2021
14	145097631	B10	3/9/2021	34	145097651	E6	3/9/2021
15	145097632	B11	3/9/2021	35	145097652	E7	3/9/2021
16	145097633	B12	3/9/2021	36	145097653	E8	3/9/2021
17	145097634	B13	3/9/2021	37	145097654	J1	3/9/2021
18	145097635	B14	3/9/2021	38	145097655	J2	3/9/2021
19	145097636	C1	3/9/2021	39	145097656	J3	3/9/2021
20	145097637	C2	3/9/2021	40	145097657	J4	3/9/2021

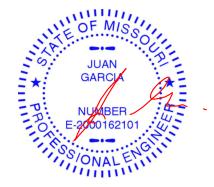
The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of 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 09, 2021

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

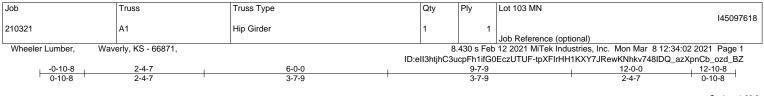


RE: 210321 - Lot 103 MN

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

Site Information:

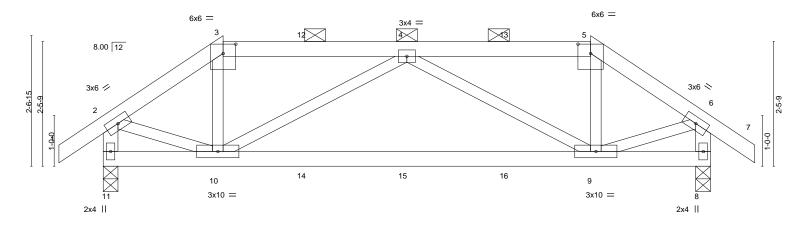
Project Cu Lot/Block: Address: City, Cour	ustomer: Proj	ect Name: 210)321	Subdivi State:	ision:		
City, Cour No. Sea 41 1450 42 1450 43 1450 44 1450 45 1450 46 1450 47 1450 48 1450 50 1450 51 1450 52 1450 53 1450 54 1450 55 1450 56 1450 56 1450 57 1450 58 1450 60 1450 61 1450 61 1450 62 1450 63 1450 64 1450 63 1450 64 1450 66 1450 66 1450 67 1450 67 1450 70 1450 71 1450 71 1450 71 1450 72 1450 73 1450 74 1450 74 1450 75 1450 76 1450 77 1450 76 1450 77 1450 78 1450 79 1450 70 1450 71 1450		Truss Name J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16 J17 J18 J19 J20A J21 J22A J21 J22A J21 J22A J23 J24 J25 J26 J27 J28 J29 J20 J27 J28 J29 J30 J31 J32 J33 J34 J35 J36 LAY1 LAY3 LAY4 LAY5 LAY6 LAY7 LAY8 V1 V2 V3	Date 3/9/2021	State: No. 85 86 87	Seal# 145097703 145097704	Truss Name V8 V9 V10	Date 3/9/2021 3/9/2021
	097700 097701	V4 V5	3/9/2021 3/9/2021				





March 9,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017



⊢ −−	2-4-7		9-7-9			12-0-0	
Plate Offsets (X,Y)	2-4-7		7-3-2			2-4-7	
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 0.25 BC 0.63 WB 0.28 Matrix-S	Vert(LL) -0.09 Vert(CT) -0.20 Horz(CT) 0.01		360 240 n/a	PLATES MT20 Weight: 46 lb	GRIP 197/144 FT = 10%
			BRACING- TOP CHORD BOT CHORD	except end ve	erticals, and 2-0	rectly applied or 5-11)-0 oc purlins (6-0-0 n or 6-0-0 oc bracing.	
Max H Max U	e) 11=0-3-8, 8=0-3-8 lorz 11=85(LC 7) lplift 11=-195(LC 8), 8=-195(LC 9) irav 11=890(LC 1), 8=890(LC 1)						F MISSIL
TOP CHORD 2-3=- 6-8=- BOT CHORD 9-10= WEBS 3-10=	Comp./Max. Ten All forces 250 (lb) of -959/177, 3-4=-757/160, 4-5=-757/160, 4 -931/165 =-326/1124 =-29/315, 4-9=-445/225, 5-9=-28/315, 2- =-445/225	5-6=-959/178, 2-11=-931/	165,				
 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate dr 	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv	nph; TCDL=6.0psf; BCDL= exposed ; end vertical let	ft and right exposed; Lui		,		MBER DO162101
 5) * This truss has bee will fit between the b 6) Provide mechanical at joint 8. 	n designed for a live load of 20.0psf on bottom chord and any other members. connection (by others) of truss to bearing	the bottom chord in all are	eas where a rectangle 3- anding 195 lb uplift at joi	nt 11 and 195 lb		ALL DUA	N GARCIA
referenced standard 8) Graphical purlin rep 9) Hanger(s) or other c 4-0-0, and 90 lb dow 2-4-7, 39 lb down at The design/selection	ad in accordance with the 2018 Internati I ANSI/TPI 1. resentation does not depict the size or the connection device(s) shall be provided so whand 76 lb up at 6-0-0, and 90 lb down 4-0-0, 39 lb down at 6-0-0, and 39 lb c in of such connection device(s) is the res E(S) section, loads applied to the face of	ne orientation of the purlin ufficient to support concer n and 76 lb up at 8-0-0 or lown at 8-0-0, and 157 lb ponsibility of others.	along the top and/or bo ntrated load(s) 90 lb dow n top chord, and 157 lb o down and 87 lb up at 9	ttom chord. n and 76 lb up a lown and 87 lb i	up at	PROTECT	6952
LOAD CASE(S) Stan	dard					CIIIO/0	ONAL ENTIT

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 103 MN		
					145097618		
210321	A1	Hip Girder	1	1			
					Job Reference (optional)		
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:02 2021 Page 2							

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:02 2021 Page 2 ID:ell3htjhC3ucpFh1ifG0EczUTUF-tpXFIrHH1KXY7JRewKNhkv748IDQ_azXpnCb_ozd_BZ

LOAD CASE(S) Standard

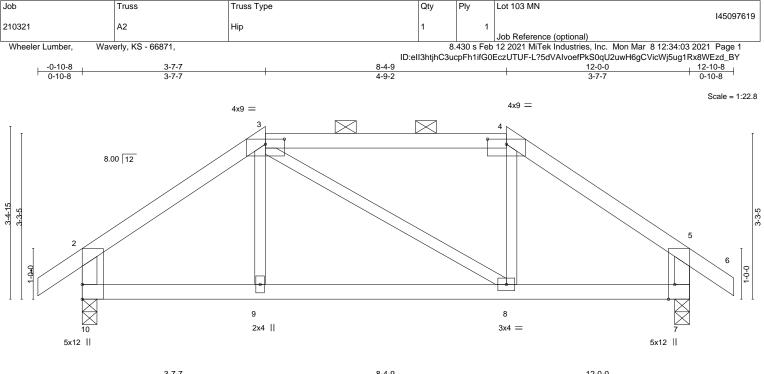
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

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: 10=-157(B) 4=-60(B) 9=-157(B) 12=-60(B) 13=-60(B) 14=-30(B) 15=-30(B) 16=-30(B)





	L	3-1-1		8-4-9			12-0-0	
	I	3-7-7	I	4-9-2		Ι	3-7-7	I
Plate Offset	ts (X,Y)	[3:0-4-8,0-1-3], [4:0-4-8,0-1-3], [7:0-3	8,Edge]					
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 0.40	Vert(LL) -C	0.05 8-9	>999 360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0).11 8-9	>999 240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) C	0.01 7	n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) C	0.03 8-9	>999 240	Weight: 42 lb	FT = 10%
							5	

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except*
	2-10,5-7: 2x4 SPF No.2

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=-106(LC 6) Max Uplift 10=-65(LC 8), 7=-65(LC 9) Max Grav 10=598(LC 1), 7=598(LC 1)

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

2-3=-599/44, 3-4=-420/76, 4-5=-599/43, 2-10=-522/89, 5-7=-522/89 9-10=-69/421, 8-9=-70/420, 7-8=-20/421 TOP CHORD

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 65 lb uplift at joint 10 and 65 lb uplift at ioint 7.

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

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



11111

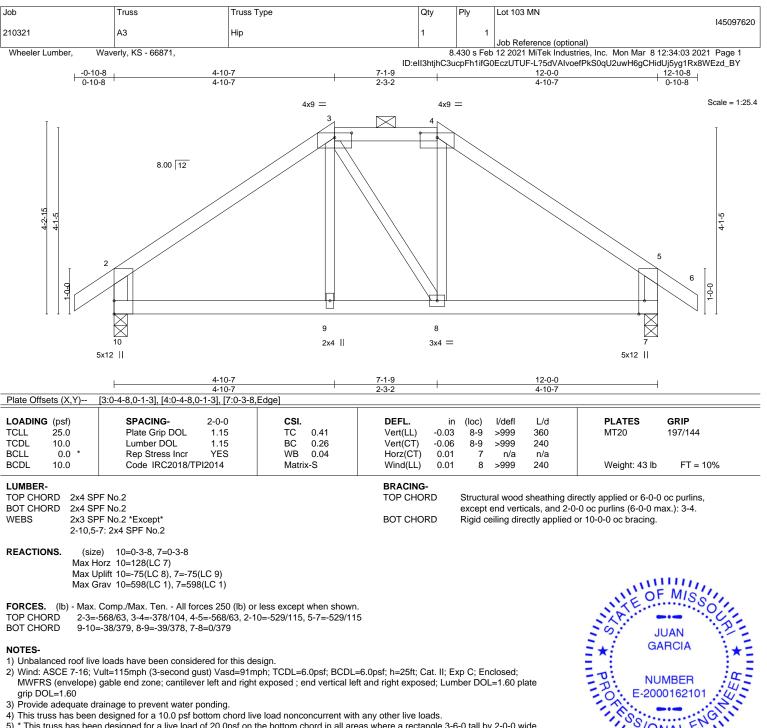
0

MIS

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.





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 75 lb uplift at joint 10 and 75 lb uplift at ioint 7.

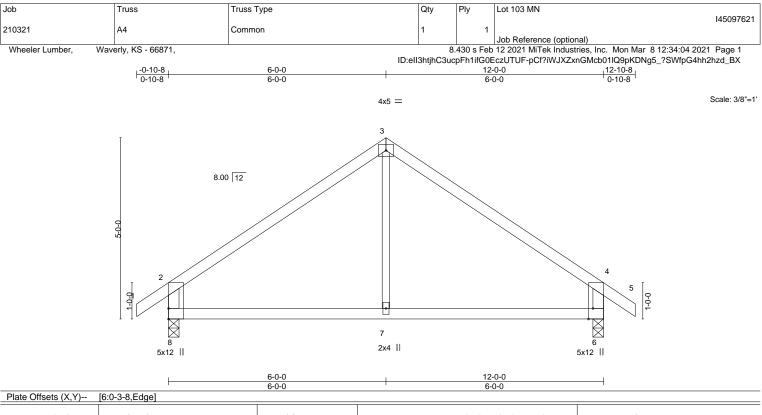
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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 IncrYESCode IRC2018/TPI2014	CSI. TC 0.44 BC 0.24 WB 0.08 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.03 -0.06 0.01 -0.03	6-7 6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 38 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF 3-7: 2x	BRACING- TOP CHOR BOT CHOR		Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.) oc purlins,			
REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=149(LC 7) Max Uplift 8=-81(LC 8), 6=-81(LC 9) Max Grav 8=598(LC 1), 6=598(LC 1)									
FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 7-8=0						NALE.	UAN P		

NOTES-

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

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

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

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

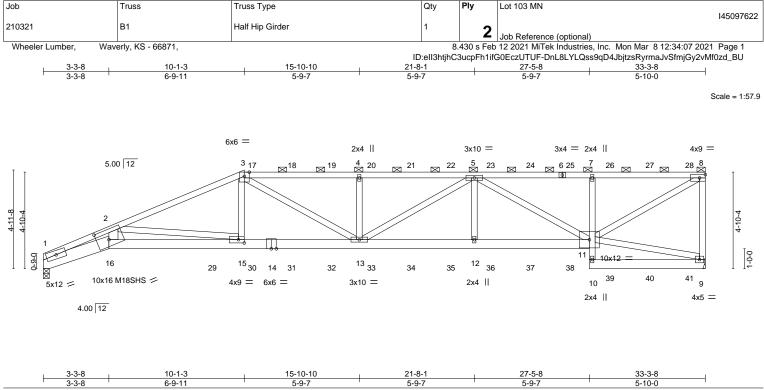
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 8 and 81 lb uplift at joint 6.

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



GARCIA

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



	0-3-11	5-3-1	5-5-1		5-5-1	5-10-0	
Plate Offsets (X,Y)	[15:0-3-8,0-2-0], [16:0-7-4,0-6-0]						
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 0.91 BC 0.70 WB 0.57	Vert(LL) -0.30	(loc) l/defl 15-16 >999 15-16 >729 9 n/a	L/d 360 240 n/a	PLATES MT20 M18SHS	GRIP 197/144 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		15-16 >999	240	Weight: 366 lb	FT = 10%
BOT CHORD 2x6 SF 1-16: 2 WEBS 2x4 SF	4 SPF 2100F 1.8E	1	BRACING- TOP CHORD BOT CHORD	except end ver	icals, and 2-0	rectly applied or 4-5-4 (-0 oc purlins (3-9-10 m or 10-0-0 oc bracing.	
Max H Max U	e) 1=0-3-8, 9=Mechanical lorz 1=149(LC 26) Jplift 1=-481(LC 8), 9=-529(LC 5) brav 1=2733(LC 1), 9=2963(LC 1)					IN THE OF	MISSO
	Comp./Max. Ten All forces 250 (lb) o -11894/2299, 2-3=-7024/1434, 3-4=-713					IL S	JAN P
	-11694/2299, 2-3=-7024/1434, 3-4=-713 -3969/768, 8-9=-2808/602	50/1414, 4-5=-7127/1413,	5-7=-3965/757,			GAI	
	=-2242/10879, 15-16=-1979/9563, 13-1	5=-1387/6387, 12-13=-12	81/6527,			E	E 10 E
WEBS 2-16:	2=-1281/6527, 7-11=-655/200 =-610/3172, 2-15=-3135/632, 3-15=-343 =-218/700, 5-12=0/531, 5-11=-2947/580	, ,	-13=-772/266,				ABER (162101)
NOTES-						1.00	G
Top chords connect Bottom chords conn	nnected together with 10d (0.131"x3") na ted as follows: 2x4 - 1 row at 0-4-0 oc. tected as follows: 2x8 - 2 rows staggere	d at 0-9-0 oc, 2x6 - 2 rows		2x4 - 1 row at 0-9	-0 oc.	11,5%/ON	IAL ENTIT
	Follows: 2x6 - 2 rows staggered at 0-9-0 ered equally applied to all plies, except i			ASE(S) section.	Plv to		
ply connections hav	e been provided to distribute only loads	noted as (F) or (B), unles		- (-)	,	Barren Lio	GARCIA
	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91n		-6 Opsf: h-25ft: Cat. II: F	vn C: Enclosed		1.0	ENSE
	; cantilever left and right exposed ; end				.60	- 3 / X	~\ =
	rainage to prevent water ponding.					= 10	050
	plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv	e load nonconcurrent wit	h anv other live loads.			10	952
8) * This truss has bee	en designed for a live load of 20.0psf on			6-0 tall by 2-0-0 v	vide	PH	
	pottom chord and any other members. r truss to truss connections.						SAS AS
10) Bearing at joint(s)	1 considers parallel to grain value using	ANSI/TPI 1 angle to grain	n formula. Building desig	ner should verify		11550	NALENGIN
capacity of bearing 11) Provide mechanica	g surface. al connection (by others) of truss to bear	ring plate capable of withs	tanding 481 lb uplift at io	int 1 and 529 lb (uplift	1111	NAL
at joint 9.		01	5 · · · · · · · · · ·				rch 9,2021
Continued on page 2							
WARNING - Verify	design parameters and READ NOTES ON THIS AN	D INCLUDED MITEK REFERENC	E PAGE MII-7473 rev. 5/19/202	0 BEFORE USE.			

Mitek* 16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 103 MN
					145097622
210321	B1	Half Hip Girder	1	2	
				_	Job Reference (optional)
Wheeler Lumber, Wav	erly, KS - 66871,		8.	430 s Feb	12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:07 2021 Page 2

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:07 2021 Page 2 ID:eII3htjhC3ucpFh1ifG0EczUTUF-DnL8LYLQss9qD4JbjtzsRyrmaJvSfmjGy2vMf0zd_BU

NOTES-

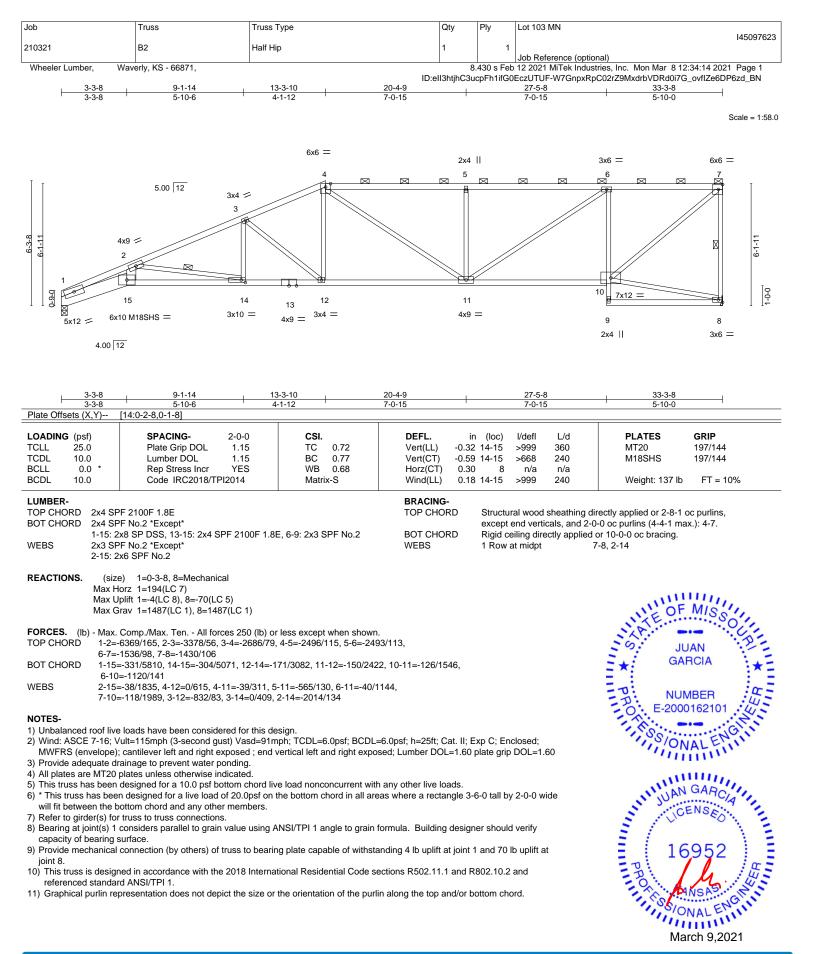
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 114 lb down and 78 lb up at 10-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 14-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 12-5-7, 116 lb down and 78 lb up at 22-5-7, 116 lb down and 78 lb up at 22-5-7, 116 lb down and 94 lb up at 22-5-7, 116 lb down and 94 lb up at 23-5-7, and 129 lb down and 94 lb up at 23-5-7, 116 lb down and 94 lb up at 12-5-7, 116 lb down and 94 lb up at 22-5-7, 116 lb down and 94 lb up at 22-5-7, 116 lb down and 94 lb up at 22-5-7, 116 lb down and 94 l

LOAD CASE(S) Standard

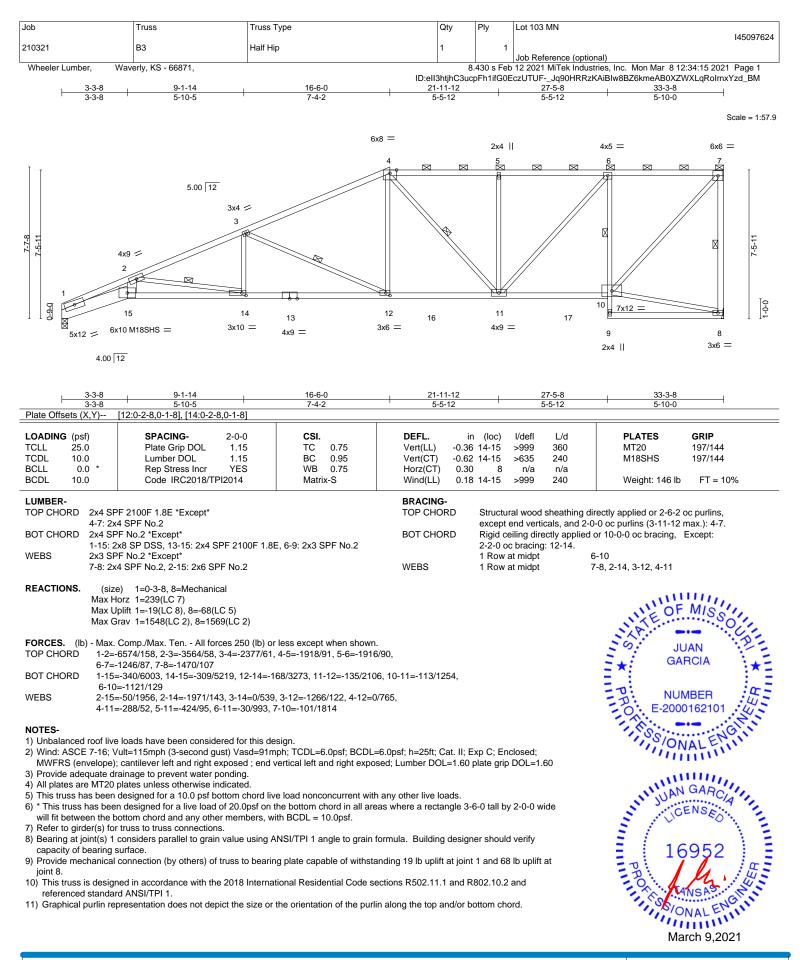
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

- Uniform Loads (plf)
- Vert: 1-3=-70, 3-8=-70, 1-16=-20, 11-16=-20, 9-10=-20 Concentrated Loads (lb)
 - Vert: 17=-93(F) 18=-93(F) 19=-93(F) 20=-93(F) 21=-93(F) 22=-93(F) 23=-100(F) 24=-24(F) 25=-24(F) 26=-114(F) 27=-114(F) 28=-125(F) 29=-731(F) 30=-71(F) 31=-71(F) 32=-71(F) 33=-71(F) 33=-71(F) 35=-71(F) 35=-7

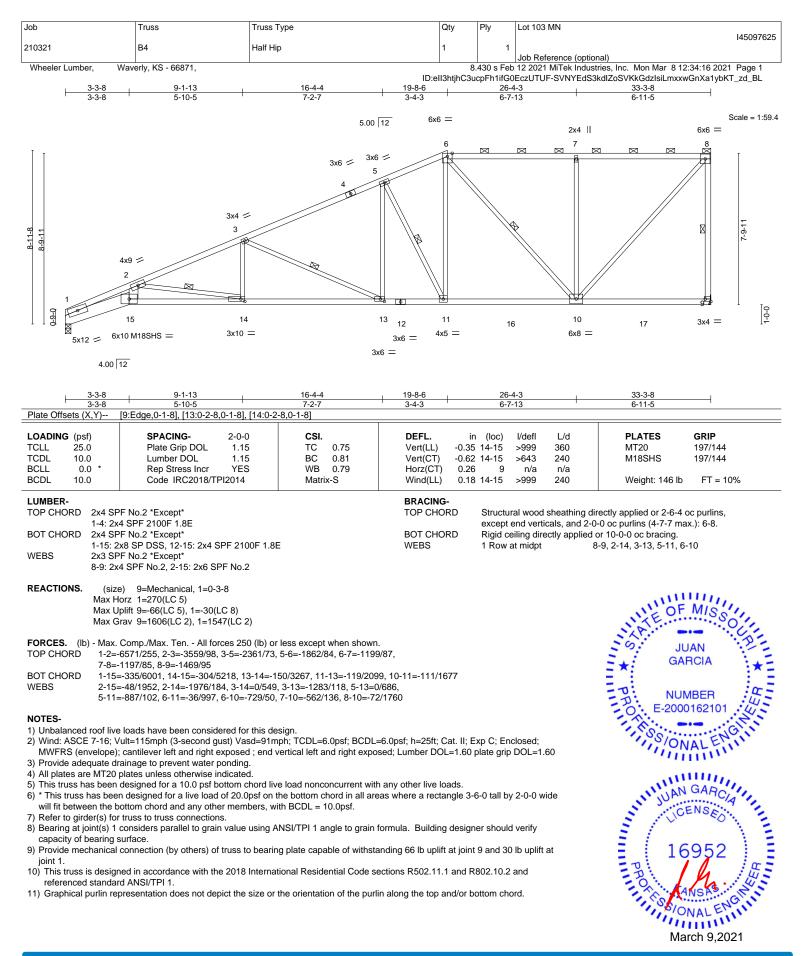




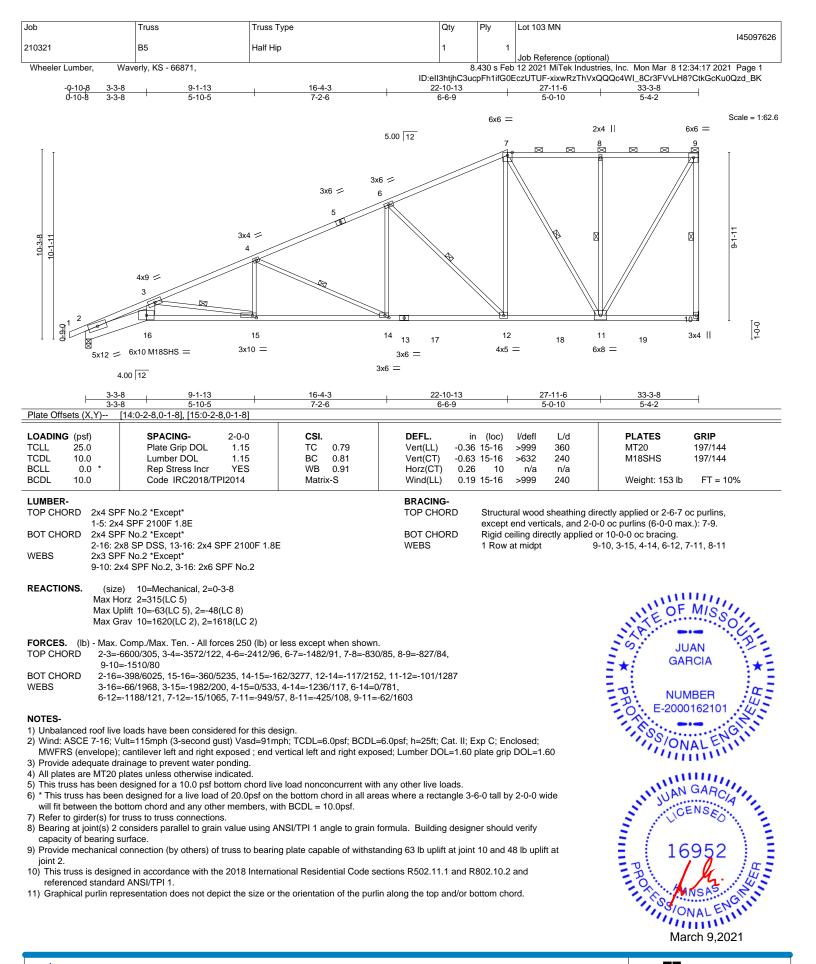




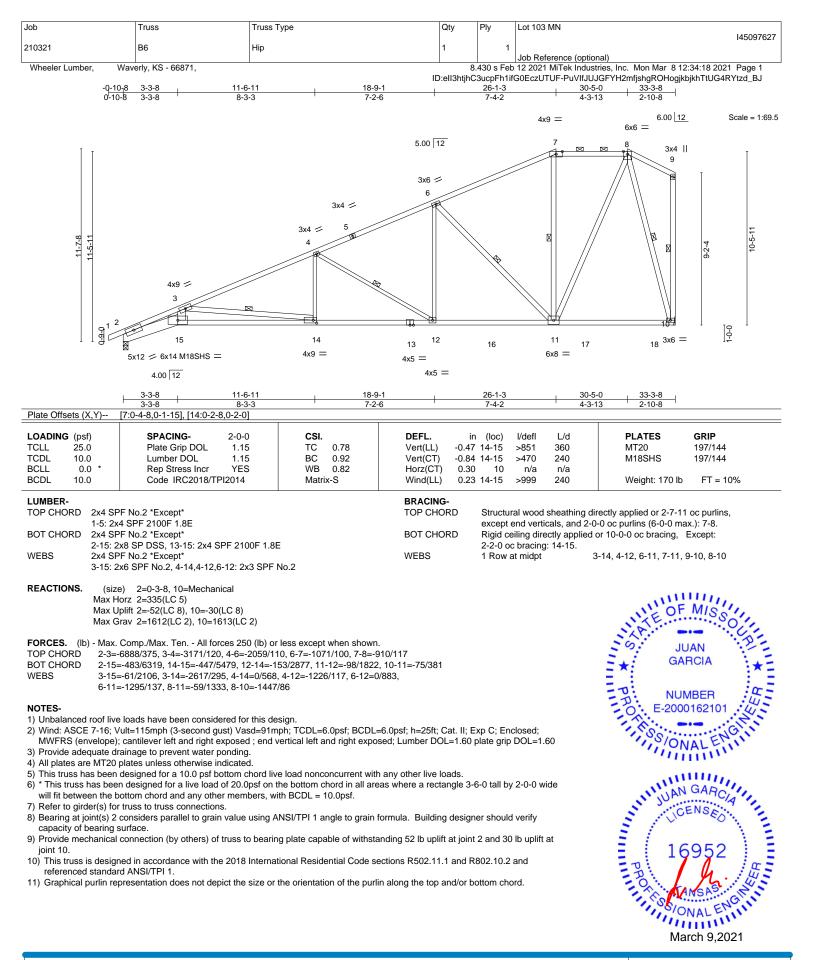
16023 Swingley Ridge Rd Chesterfield, MO 63017



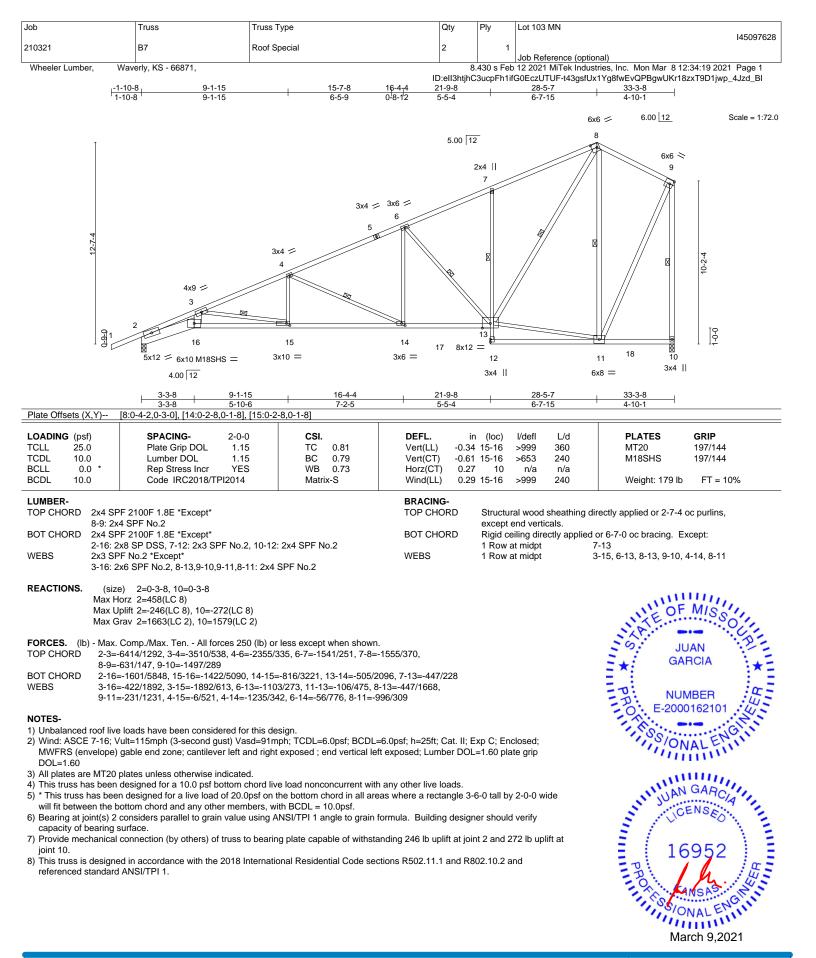
16023 Swingley Ridge Rd Chesterfield, MO 63017



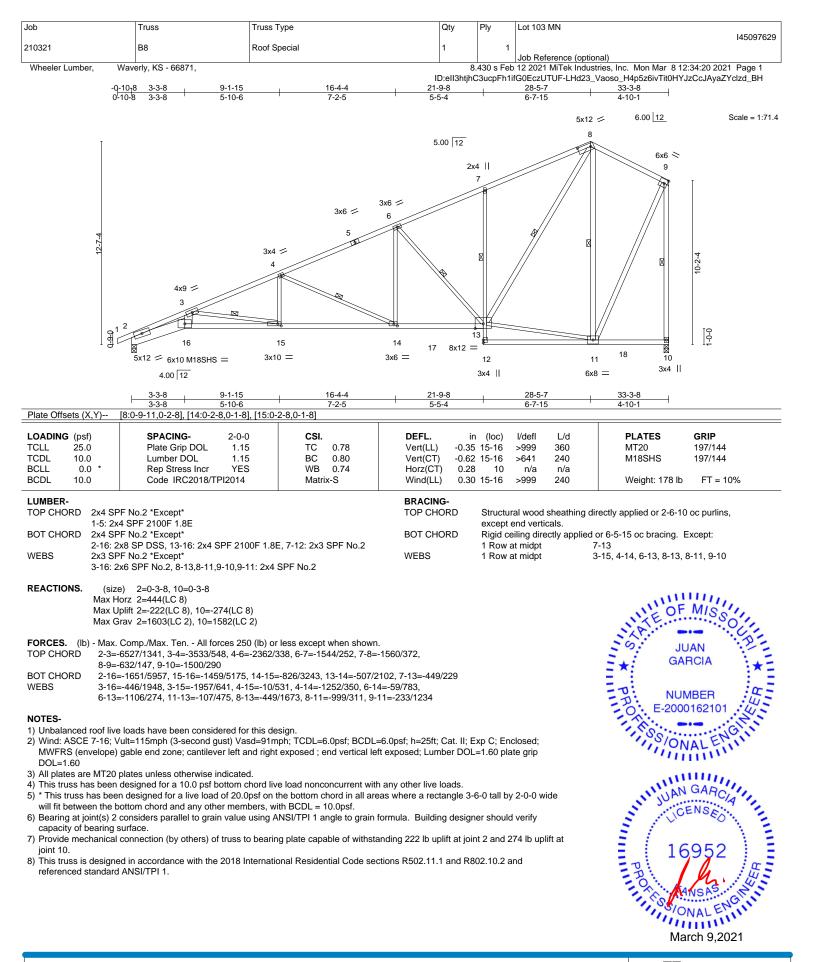
NITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017



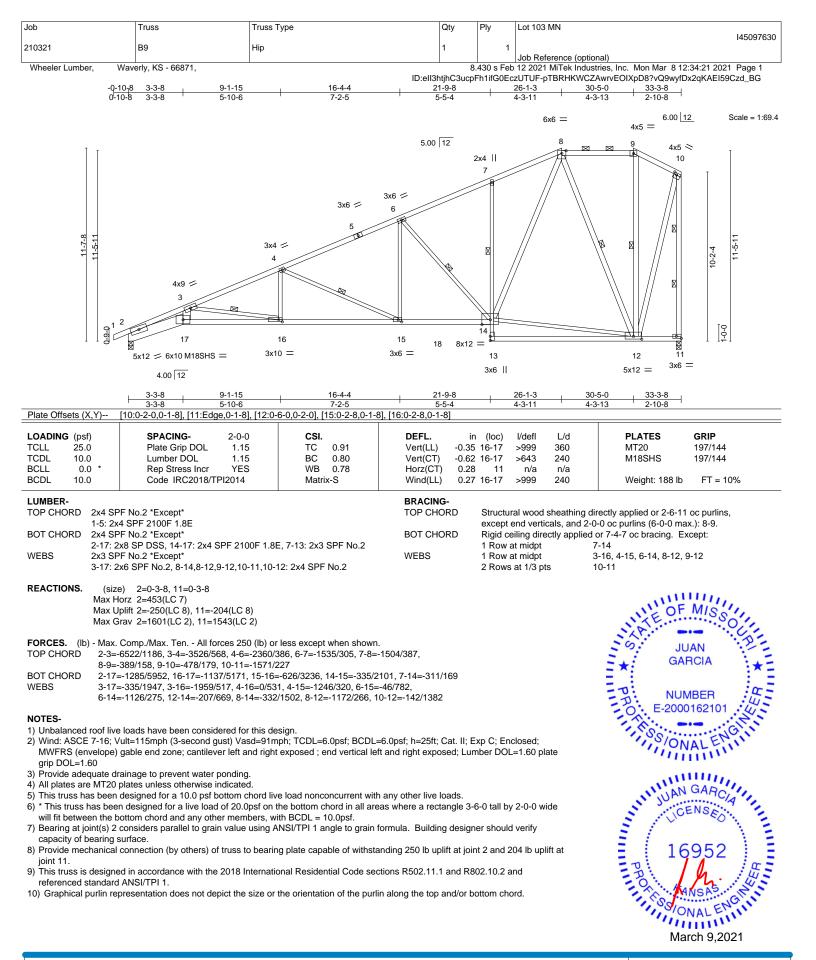
NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017



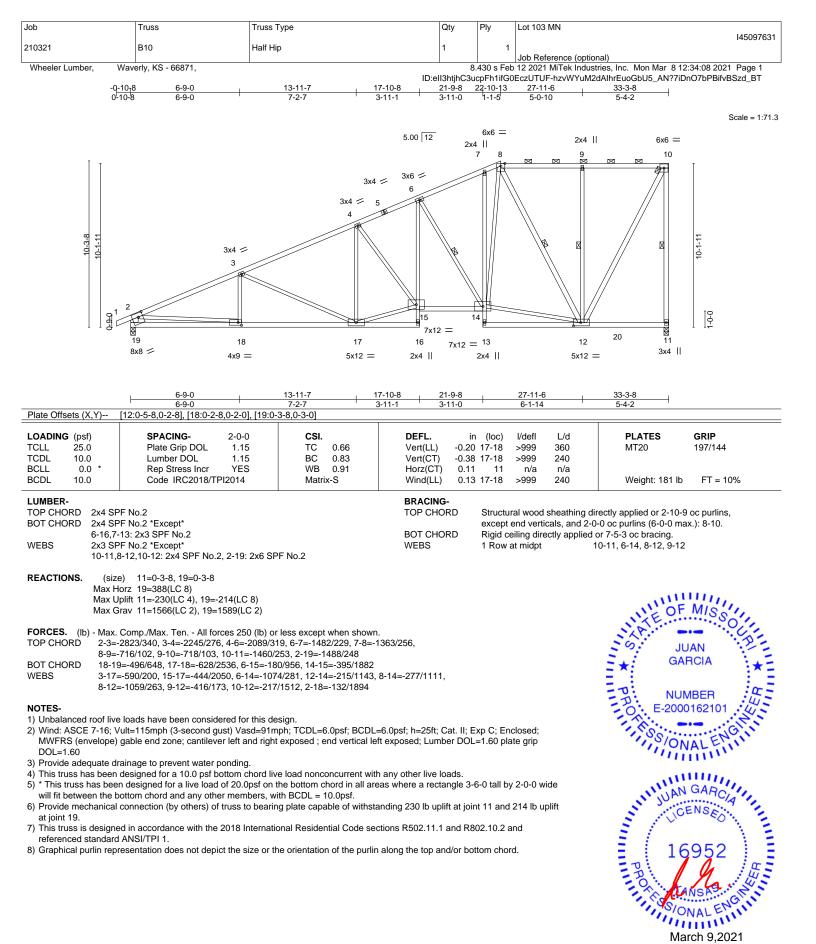




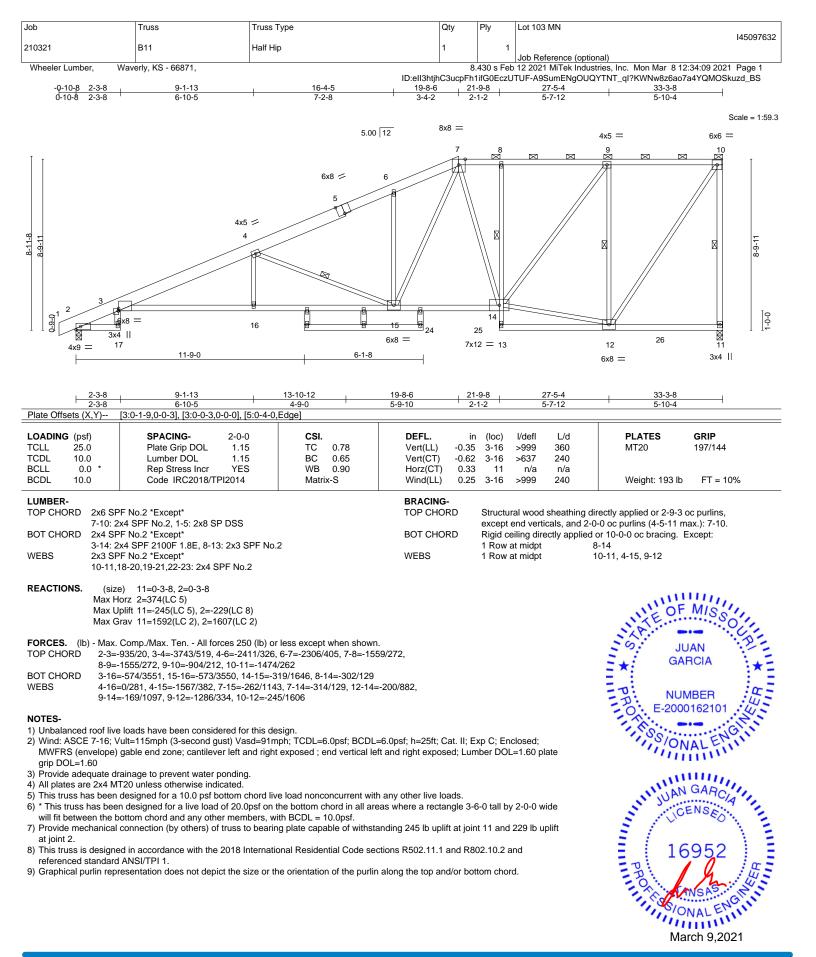
16023 Swingley Ridge Rd Chesterfield, MO 63017



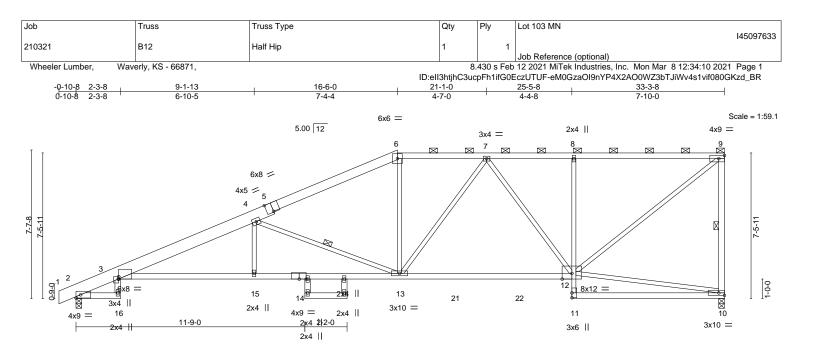








16023 Swingley Ridge Rd Chesterfield, MO 63017

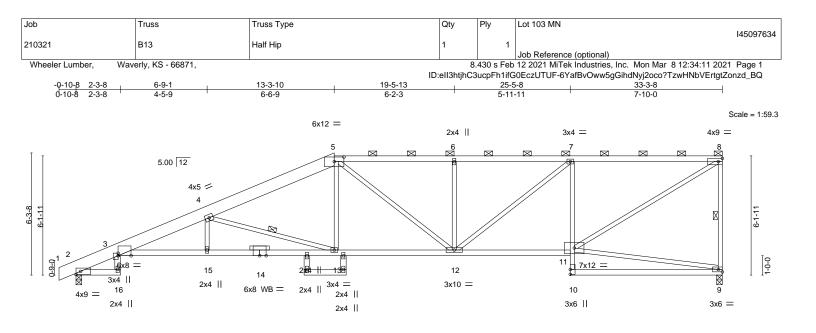


	2-3-8	9-1-13		16-6-0 7-4-4		25-5-8			33-3-8	
Plate Offset		[3:0-1-9,0-0-3], [3:0-0-3,0	-0-0]. [5:0-4-0.			8-11-8			7-10-0	
	(psf) 25.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.78 BC 0.71 WB 0.92		in (loc -0.36 12-13 -0.64 12-13 0.34 10	3 >999 3 >621	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
	10.0	Code IRC2018/TF		Matrix-S		0.23 3-15		240	Weight: 164 lb	FT = 10%
LUMBER- TOP CHOR BOT CHOR WEBS	6-9: 2x RD 2x4 SF 3-14,12 2x3 SF	PF No.2 *Except* 44 SPF 2100F 1.8E, 1-5: 2 PF No.2 *Except* 2-14: 2x4 SPF 2100F 1.8E PF No.2 *Except* 7-19,18-20: 2x4 SPF No.2	E, 8-11: 2x3 SF	PF No.2	BRACING- TOP CHORE BOT CHORE WEBS	exce D Rigid 6-0-0	pt end vertion	cals, and 2-0 ctly applied : 10-11.	irectly applied or 2-8-14 D-0 oc purlins (5-2-4 ma or 10-0-0 oc bracing, 1 9-10, 4-13	x.): 6-9.
REACTION	Max H Max U	e) 10=0-3-8, 2=0-3-8 lorz 2=315(LC 5) Jplift 10=-255(LC 5), 2=-2 ⁻ Grav 10=1557(LC 2), 2=16							INTE OF	MISSO
FORCES. TOP CHOR	RD 2-3=-	Comp./Max. Ten All for -899/39, 3-4=-3678/455, 4 -1537/293, 9-10=-1429/30	-6=-2413/318,							
BOT CHOR WEBS	4-15	=-551/3481, 13-15=-550/3 =0/264, 4-13=-1475/389, 6 =-339/1952	,	,	20,				PP. NUM E-2000	ABER 44
2) Wind: AS MWFRS	SCE 7-16; \ (envelope)	e loads have been conside /ult=115mph (3-second gu gable end zone; cantileve	ist) Vasd=91m	ph; TCDL=6.0psf; BCDL=				ate	AN SSION	ALENGINI
 4) This trus 5) * This tru will fit be 6) Provide r at joint 2 	adequate di s has been uss has bee tween the b mechanical	rainage to prevent water p designed for a 10.0 psf bo in designed for a live load sottom chord and any othe connection (by others) of	ottom chord liv of 20.0psf on t r members, wi truss to bearin	the bottom chord in all are th BCDL = 10.0psf. Ig plate capable of withsta	eas where a rectang anding 255 lb uplift a	le 3-6-0 tall at joint 10 a	nd 210 lb up		STATE JUAN	GARCIA
,	0	ed in accordance with the ANSI/TPI 1.	2018 Internatio	onal Residential Code sec	ctions R502.11.1 an	id R802.10.	2 and		16	952

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



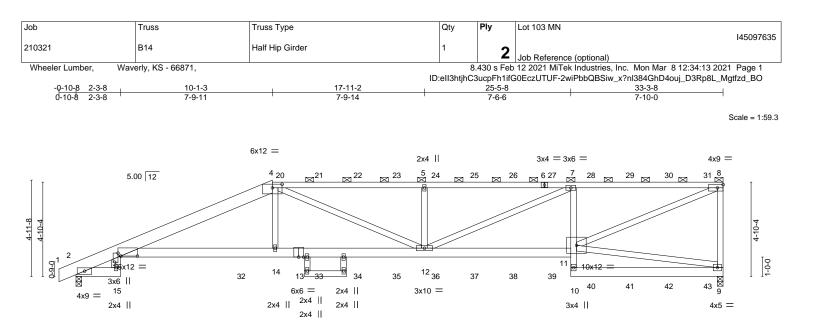




2-3-8	6-9-1 13-3-		19-5-13		25-5-8		33-3-8			
Plate Offsets (X,Y)	<u>4-5-9</u> <u>6-6-</u> [3:0-1-9,0-0-1], [3:0-7-15,0-0-0], [5:0-6-	•	6-2-3	-	5-11-11		7-10-0	·		
Plate Offsets (X,Y)	[3:0-1-9,0-0-1], [3:0-7-15,0-0-0], [5:0-6-	0,0-2-13]	1							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.88 BC 0.58 WB 0.85 Matrix-S	Vert(CT) - Horz(CT)	in (loc 0.27 13-1 0.51 13-1 0.30 0.21 13-1	5 >999 5 >776 9 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 163 lb	GRIP 197/144 FT = 10%		
							-			
TOP CHORD 2x8 SF 5-8: 2x 5-8: 2x BOT CHORD 2x4 SF 3-14,1 3-14,1 WEBS 2x3 SF 17-19, 0THERS 2x3 SF	5-8: 2x4 SPF 2100F 1.8E except end verticals, and 2-0-0 oc purlins (4-4-14 max.): 5-8. BOT CHORD 2x4 SPF No.2 *Except* BOT CHORD 3-14,11-14: 2x4 SPF 2100F 1.8E, 7-10: 2x3 SPF No.2 WEBS 1 Row at midpt 2x3 SPF No.2 *Except* 17-19,18-20: 2x4 SPF No.2 VEBS 0THERS 2x3 SPF No.2 VEBS									
Max H Max U Max G FORCES. (Ib) - Max. TOP CHORD 2-3=-	e) 9=0-3-8, 2=0-3-8 orz 2=258(LC 5) plift 9=-264(LC 5), 2=-184(LC 4) irav 9=1486(LC 1), 2=1561(LC 1) Comp./Max. Ten All forces 250 (lb) o .768/59, 3-4=-4023/473, 4-5=-2765/405 .1932/381, 8-9=-1406/314							MISSOURAN AN RCIA		
BOT CHORD 3-15:										
 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 2) Provide adequate drainage to prevent water ponding. 										
 a) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. b) * This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. c) * 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. c) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 9 and 184 lb uplift at joint 2. f) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and 										
joint 2. 6) This truss is designer referenced standard	ed in accordance with the 2018 Internati	onal Residential Code se	ctions R502.11.1 and	d R802.10	.2 and			0		
7) Graphical purlin rep	7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 16952									

16952 March 9,2021





2-3-8	10-1-3	17-11-2		25-5-			33-3-8	
2-3-8 Plate Offsets (X,Y)	<u>7-9-11</u> [3:0-1-13,0-1-10], [3:0-10-6,0-0-0], [4:0	7-9-14		7-6-6	5		7-10-0	
	[<u>[]]] []] []] []] []] []] []] []] []] [</u>							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	CSI. TC 0.92 BC 0.55 WB 0.72 Matrix-S	Vert(CT) -(Horz(CT) (in (loc) 0.39 3-14 0.71 3-14 0.37 9 0.32 3-14	>558 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 393 lb	GRIP 197/144 FT = 10%
BOT CHORD 2x6 SF 7-10,10 WEBS 2x4 SF 3-15: 2 REACTIONS. (sizz, Max H)	PF 2100F 1.8E *Except* 8 SP DSS 2400F 2.0E *Except* 3-17: 2x4 SPF No.2 PF No.2 *Except* x6 SPF No.2 e) 9=0-3-8, 2=0-3-8 orz 2=153(LC 5) plift 9=-470(LC 5), 2=-376(LC 8)		BRACING- TOP CHORD BOT CHORD	excep	t end vert	icals, and 2-(irectly applied or 4-8-11 D-0 oc purlins (5-4-1 ma or 10-0-0 oc bracing.	
Max G FORCES. (lb) - Max. TOP CHORD 2-3=- 8-9=- BOT CHORD 3-14= WEBS 3-15=	rav 9=2972(LC 1), 2=3604(LC 1) Comp./Max. Ten All forces 250 (lb) c 1658/217, 3-4=-7028/1029, 4-5=-7184, 2773/570 =-1072/6657, 12-14=-1071/6699, 11-12 =-72/531, 4-14=-49/1068, 4-12=-149/62 =-1017/5879	/1128, 5-7=-7181/1129, 7-8 =-969/5526, 10-11=0/299,	7-11=-1742/436				The second secon	JAN RCIA
 Top chords connect Bottom chords conn Webs connected as 2) All loads are conside ply connections have 3) Wind: ASCE 7-16; V MWFRS (envelope) 4) Provide adequate dr 5) This truss has been 6) * This truss has been 6) * This truss has been 7) Provide mechanical joint 2. 8) This truss is designer referenced standard 9) Load case(s) 1, 2, 3 been modified. Build 	inected together with 10d (0.131"x3") n ed as follows: 2x8 - 2 rows staggered a ected as follows: 2x6 - 2 rows staggered follows: 2x6 - 2 rows staggered at 0-9- ered equally applied to all plies, except e been provided to distribute only loads (/ult=115mph (3-second gust) Vasd=91r ; cantilever left and right exposed ; end rainage to prevent water ponding. designed for a 10.0 psf bottom chord li n designed for a live load of 20.0psf on rottom chord and any other members. connection (by others) of truss to beari ed in accordance with the 2018 Internat (ANS/TPI 1. , 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, ling designer must review loads to verif presentation does not depict the size of	t 0-9-0 oc, 2x4 - 1 row at 0 d at 0-9-0 oc, 2x4 - 1 row at 0 oc, 2x4 - 1 row at 0-9-0 o if noted as front (F) or back noted as (F) or (B), unless nph; TCDL=6.0psf; BCDL= vertical left and right expose ve load nonconcurrent with the bottom chord in all are ng plate capable of withstat ional Residential Code sec 16, 17, 18, 19, 20, 21, 22, 3 y that they are correct for the	tt 0-9-0 oc. c. (B) face in the LOA otherwise indicated 6.0psf; h=25ft; Cat. ed; Lumber DOL=1. any other live loads as where a rectangle nding 470 lb uplift at tions R502.11.1 and 23, 24, 25, 26, 27, 20	I; Exp C; E 60 plate gr 3-6-0 tall joint 9 and R802.10.2 3, 29, 30, 3	ip DOL=1 by 2-0-0 w 376 lb up and 1, 32 has/	60 ride lift at	PROTO	GARCIA BINSED 952

Continued on page 2



lob	Truss	Truss Type	Qty	Ply	Lot 103 MN	1450070
210321	B14	Half Hip Girder	1			1450976
				2		
Wheeler Lumber, V	Vaverly, KS - 66871,		ID:all2btib		b 12 2021 MiTek Industries, Inc. M G0EczUTUF-2wiPbbQBSiw_x?nl38	
12-5-7, 111 lb down and 63 lb up at 22- 30-5-7, and 131 lb lb up at 14-5-7, 80 and 34 lb up at 24-	n and 63 lb up at 14-5 5-7, 111 lb down and down and 92 lb up at lb down and 34 lb up 5-7, 72 lb down at 26 s) is the responsibility	shall be provided sufficient to support con 5-7, 111 lb down and 63 lb up at 16-5-7, 63 lb up at 24-5-7, 125 lb down and 94 ll 32-5-7 on top chord, and 107 lb down at at 16-5-7, 80 lb down and 34 lb up at 18 5-5-7, 72 lb down at 28-5-7, and 72 lb dow of others.	11 lb down and 63 lb up o up at 26-5-7, 125 lb do 12-5-7, 726 lb down and -5-7, 80 lb down and 34	o at 18-5-7 own and 94 d 272 lb up lb up at 20	7, 111 lb down and 63 lb up at 20 4 lb up at 28-5-7, and 125 lb dow at 8-5-7, 82 lb down at 10-5-7, 0-5-7, 80 lb down and 34 lb up at)-5-7, 111 lb down /n and 94 lb up at 80 lb down and 34 t 22-5-7, 80 lb down
Uniform Loads (plf) Vert: 1-4=-7 Concentrated Loads Vert: 14=-65	alanced): Lumber Incr 0, 4-8=-70, 2-15=-20, (lb) 9(B) 20=-102(B) 21=-8	ease=1.15, Plate Increase=1.15 3-11=-20, 9-10=-20 31(B) 22=-81(B) 23=-81(B) 24=-81(B) 25= 36=-80(B) 37=-80(B) 38=-80(B) 39=-80(B)				=-129(B) 32=-726(B)
2) Dead + 0.75 Roof Lit Uniform Loads (plf) Vert: 1-4=-5 Concentrated Loads Vert: 14=-63 33=-107(B)	ve (balanced): Lumbe 7, 4-8=-58, 2-15=-20, (lb) 8(B) 20=-85(B) 21=-70 34=-69(B) 35=-69(B)	r Increase=1.15, Plate Increase=1.15	70(B) 26=-70(B) 27=-70() 40=-49(B) 41=-49(B) 4	(B) 28=-98((B) 29=-98(B) 30=-98(B) 31=-106	5(B) 32=-617(B)
Vert: 1-4=-2 Concentrated Loads Vert: 14=-82 33=-107(B)	2(B) 20=-44(B) 21=-55 34=-55(B) 35=-55(B)	3-11=-40, 9-10=-40 5(B) 22=-55(B) 23=-55(B) 24=-55(B) 25=- 36=-55(B) 37=-55(B) 38=-55(B) 39=-55(B .eft: Lumber Increase=1.60, Plate Increas) 40=-72(B) 41=-72(B) 4			B) 32=-417(B)
Horz: 1-2=-3 Drag: 4-5=-0 Concentrated Loads	84, 2-4=-21, 8-9=18) (lb)	=-12, 3-11=-12, 9-10=-12 B) 22=33(B) 23=33(B) 24=33(B) 25=33(B)) 26=33(B) 27=33(B) 28	=63(B) 29=	-63(B) 30=63(B) 31=66(B) 32=26	54(B) 33=-107(B)
5) Dead + 0.6 MWFRS Uniform Loads (plf) Vert: 1-2=3,	Wind (Pos. Internal) F 2-4=9, 4-8=16, 2-15=	26(B) 38=26(B) 39=26(B) 40=-23(B) 41=- Right: Lumber Increase=1.60, Plate Increa -12, 3-11=-12, 9-10=-12		5(B)		
Drag: 4-5=-0 Concentrated Loads Vert: 14=-27	(lb) 7(B) 20=53(B) 21=33(l	B) 22=33(B) 23=33(B) 24=33(B) 25=33(B -26(B) 38=26(B) 39=26(B) 40=-23(B) 41=-			-63(B) 30=63(B) 31=66(B) 32=26	i4(B) 33=-107(B)
6) Dead + 0.6 MWFRS Uniform Loads (plf) Vert: 1-2=-5 Horz: 1-2=- ²	Wind (Neg. Internal) I , 2-4=-11, 4-8=-3, 2-1 5, 2-4=-9, 8-9=6	Left: Lumber Increase=1.60, Plate Increas 5=-20, 3-11=-20, 9-10=-20		、 /		
Drag: 4-5=-0 Concentrated Loads	(lb)	B) 22=52(B) 23=52(B) 24=52(B) 25=52(B		02/D) 20	92/P)	

Uniform Loads (plf)

Vert: 1-2=-5, 2-4=-11, 4-8=-3, 2-15=-20, 3-11=-20, 9-10=-20

Horz: 1-2=-15, 2-4=-9, 8-9=-24

Drag: 4-5=-0

Concentrated Loads (lb)

Vert: 14=-19(B) 20=72(B) 21=52(B) 22=52(B) 23=52(B) 24=52(B) 25=52(B) 26=52(B) 27=52(B) 28=83(B) 29=83(B) 29=83(B) 20=52(B) 24=52(B) 25=52(B) 25=52

30=83(B) 31=83(B) 32=272(B) 33=-107(B) 34=34(B) 35=34(B) 36=34(B) 37=34(B) 38=34(B) 39=34(B) 40=-15(B) 41=-15(B) 42=-15(B) 43=-18(B)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=11, 2-4=16, 4-8=6, 2-15=-12, 3-11=-12, 9-10=-12

Horz: 1-2=-23, 2-4=-28, 8-9=15

Drag: 4-5=-0

Concentrated Loads (lb)

Vert: 14=-27(B) 20=57(B) 21=43(B) 22=43(B) 23=43(B) 24=43(B) 25=43(B) 26=43(B) 27=43(B) 28=74(B) 29=74(B) 30=74(B) 31=75(B) 32=264(B) 33=-107(B) 34=26(B) 35=26(B) 36=26(B) 37=26(B) 38=26(B) 39=26(B) 40=-23(B) 41=-23(B) 42=-23(B) 42=-23(

42=-23(B) 43=-25(B)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



Job	Truss	Truss Type	Qty	Ply	Lot 103 MN	
				-		145097635
210321	B14	Half Hip Girder	1	2	Job Reference (optional)	
Wheeler Lumber, Wav	erly, KS - 66871,				12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:13 G0EczUTUF-2wiPbbQBSiw_x?nl384GhD4ouj_D3Rpi	
Horz: 1-2=-12, : Drag: 4-5=-0 Concentrated Loads (lb) Vert: 14=-27(B) 34=26(B) 35=2 10) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=3, 2 Horz: 1-2=-23 Drag: 4-5=-0 Concentrated Loads (ll Vert: 14=-19(E 34=34(B) 35= 11) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=-8, 2 Horz: 1-2=-12 Drag: 4-5=-0 Concentrated Loads (ll Vert: 14=-19(E 34=34(B) 35= 12) Dead: Lumber Increas Uniform Loads (plf) Vert: 14=-46(E 33=-107(B) 34 13) Dead + 0.75 Roof Live Uniform Loads (plf)	 a=6, 4-8=6, 2-15=-12, 3-11=-22-4=-18, 8-9=-7 20=61(B) 21=43(B) 22=43(E) 5(B) 36=26(B) 37=26(B) 38=25 5(B) 36=26(B) 37=26(B) 38=25 5(B) 36=26(B) 37=26(B) 32=263-35 3(A) 36=34(B) 37=34(B) 38-34(B) 38=34(B) 37=34(B) 38=34(B) 37=34(B) 38=34(B) 36=34(B) 37=34(B) 38=34(B) 36=34(B) 37=34(B) 38=34(B) 36=34(B) 37=34(B) 38=34(B) 36=34(B) 37=34(B) 38=36(B) 36=36(B) 35=-36(B) 35=-36(B) 35=-36(B) 35=-36(B) 36=-36(B) (bal.) + 0.75(0.6 MWFRS W) 	12, 9-10=-12 3) 23=43(B) 24=43(B) 25=43(B) 26=43(B) 27= 26(B) 39=26(B) 40=-23(B) 41=-23(B) 42=-23(el: Lumber Increase=1.60, Plate Increase=1.6 11=-20, 9-10=-20 (B) 23=63(B) 24=63(B) 25=63(B) 26=63(B) 27= 34(B) 39=34(B) 40=-15(B) 41=-15(B) 42=-15 lel: Lumber Increase=1.60, Plate Increase=1. 3-11=-20, 9-10=-20 (B) 23=63(B) 24=63(B) 25=63(B) 26=63(B) 27= 34(B) 39=34(B) 40=-15(B) 41=-15(B) 42=-15 Plt. metal=0.90), 9-10=-20 37(B) 23=-37(B) 24=-37(B) 25=-37(B) 26=-37(C)) 37=-36(B) 38=-36(B) 39=-36(B) 40=-39(B) 40=-30(B) 40=-30(B) 40=-30(B) 40=-30(B) 40=-30(B) 40=-30(B)	43(B) 28=7 3) 43=-25(f 0 =63(B) 28= (B) 43=-18 50 =63(B) 28= (B) 43=-18 (B) 43=-18 (B) 43=-18 (B) 27=-37(1=-39(B) 4	74(B) 29=7 3) =94(B) 29= (B) =94(B) 29= (B) =94(B) 29= (B) =94(B) 29= (B)	74(B) 30=74(B) 31=75(B) 32=264(B) 33=-107(B) =94(B) 30=94(B) 31=92(B) 32=272(B) 33=-107(B =94(B) 30=94(B) 31=92(B) 32=272(B) 33=-107(B (B) 29=-37(B) 30=-37(B) 31=-40(B) 32=-291(B))
Horz: 1-2=-11 Drag: 4-5=-0 Concentrated Loads (II Vert: 14=-19(E 34=22(B) 35=: 14) Dead + 0.75 Roof Live Uniform Loads (plf) Vert: 1-2=-46, Horz: 1-2=-11 Drag: 4-5=-0 Concentrated Loads (II Vert: 14=-19(E	3) 20=51(B) 21=36(B) 22=36 22(B) 36=22(B) 37=22(B) 38 (bal.) + 0.75(0.6 MWFRS W 2-4=-50, 4-8=-45, 2-15=-20, , 2-4=-7, 8-9=-18 3) 20=51(B) 21=36(B) 22=36	(B) 23=36(B) 24=36(B) 25=36(B) 26=36(B) 27 =22(B) 39=22(B) 40=-15(B) 41=-15(B) 42=-15 ind (Neg. Int) Right): Lumber Increase=1.60, F 3-11=-20, 9-10=-20 (B) 23=36(B) 24=36(B) 25=36(B) 26=36(B) 27	(B) 43=-18 Plate Increa	(B) se=1.60 =59(B) 29=	=59(B) 30=59(B) 31=58(B) 32=163(B) 33=-107(B =59(B) 30=59(B) 31=58(B) 32=163(B) 33=-107(B	
15) Dead + 0.75 Roof Live Uniform Loads (plf) Vert: 1-2=-41, Horz: 1-2=-17 Drag: 4-5=-0 Concentrated Loads (II Vert: 14=-19(E 30=67(B) 31= 41=-15(B) 42=	(bal.) + 0.75(0.6 MWFRS W 2-4=-45, 4-8=-53, 2-15=-20, 2-4=-12, 8-9=3 b) 3) 20=55(B) 21=44(B) 22=44 64(B) 32=163(B) 33=-107(B) 15(B) 43=-18(B)	(B) 23=44(B) 24=44(B) 25=44(B) 26=44(B) 27 34=22(B) 35=22(B) 36=22(B) 37=22(B) 38=2	.60, Plate =44(B) 28= 2(B) 39=22	=67(B) 29= -(B) 40=-1	=67(B) 5(B)	
Uniform Loads (plf) Vert: 1-2=-48, Horz: 1-2=-9, Drag: 4-5=-0 Concentrated Loads (II Vert: 14=-19(E 30=67(B) 31= 41=-15(B) 42= 17) Dead + 0.6 MWFRS W Uniform Loads (plf) Vert: 1-2=-12, Horz: 2-4=3 Concentrated Loads (II Vert: 14=-27(E 30=68(B) 31= 41=-23(B) 42=	2-4=-53, 4-8=-53, 2-15=-20, 2-4=-5, 8-9=-14 b) 3) 20=57(B) 21=44(B) 22=44 64(B) 32=163(B) 33=-107(B) 15(B) 43=-18(B) find Min. Left: Lumber Increa 2-4=-15, 4-8=-12, 2-15=-12, b) 3) 20=59(B) 21=44(B) 22=44 66(B) 32=204(B) 33=-107(B) 23(B) 43=-25(B)	(B) 23=44(B) 24=44(B) 25=44(B) 26=44(B) 27 34=22(B) 35=22(B) 36=22(B) 37=22(B) 38=2 se=1.60, Plate Increase=1.60 3-11=-12, 9-10=-12 (B) 23=44(B) 24=44(B) 25=44(B) 26=44(B) 27 34=16(B) 35=16(B) 36=16(B) 37=16(B) 38=1	=44(B) 28= 2(B) 39=22 =44(B) 28=	=67(B) 29= (B) 40=-1 =68(B) 29=	=67(B) 5(B) =68(B)	
Uniform Loads (plf)	4-8=-12, 2-15=-12, 3-11=-12	ase=1.60, Plate Increase=1.60 2, 9-10=-12				

Continued on page 4



Job	Truss	Truss Type	Qty	Ply	Lot 103 MN	
210321	B14	Half Hip Girder	1	2		145097635
Wheeler Lumber, Way	verly, KS - 66871,				Job Reference (optional) 12 2021 MiTek Industries, Inc. Mon Mar 8 12:	34-13 2021 Page 4
	veny, NO - 00071,				G0EczUTUF-2wiPbbQBSiw_x?nl384GhD4ouj_D	
LOAD CASE(S) Standar	d					
Concentrated Loads (lb)					
		4(B) 23=44(B) 24=44(B) 25=44(B) 26=44(B) 2 3=16(B) 39=16(B) 40=-23(B) 41=-23(B) 42=-2			=68(B) 30=68(B) 31=66(B) 32=204(B) 33=-10	07(B)
19) Reversal: Dead + 0.6) Left: Lumber Increase=1.60, Plate Increase		5(2)		
Uniform Loads (plf)	2-4=9, 4-8=16, 2-15=-12, 3-1	1112 9-1012				
	1, 2-4=-21, 8-9=18	11-12, 3-10-12				
Drag: 4-5=-0 Concentrated Loads (lb)					
		2=-111(B) 23=-111(B) 24=-111(B) 25=-111(B) 26=-111(E	8) 27=-111((B) 28=-125(B) 29=-125(B) 30=-125(B) 31=-1	122(B)
		(B) 36=-67(B) 37=-67(B) 38=-67(B) 39=-67(E)		41=-56(B)) 42=-56(B) 43=-57(B)	
20) Reversal: Dead + 0.6 Uniform Loads (plf)	WIVERS WIND (Pos. Internal)) Right: Lumber Increase=1.60, Plate Increas	e=1.60			
Vert: 1-2=3, 2	2-4=9, 4-8=16, 2-15=-12, 3-11	1=-12, 9-10=-12				
Horz: 1-2=-15 Drag: 4-5=-0	5, 2-4=-21, 8-9=-12					
Concentrated Loads (
		2=-111(B) 23=-111(B) 24=-111(B) 25=-111(B (B) 36=-67(B) 37=-67(B) 38=-67(B) 39=-67(E)			(B) 28=-125(B) 29=-125(B) 30=-125(B) 31=-1	122(B)
) Left: Lumber Increase=1.60, Plate Increase		41=-30(D)) +2=-50(B) +5=-57(B)	
Uniform Loads (plf)	0 4 44 4 0 0 0 45 00 0	11 20 0 10 20				
,	2-4=-11, 4-8=-3, 2-15=-20, 3- 5, 2-4=-9, 8-9=6	-11=-20, 9-10=-20				
Drag: 4-5=-0						
Concentrated Loads (Vert: 14=-61(.91(B) 23=-91(B) 24=-91(B) 25=-91(B) 26=-9	1(B) 27=-91	(B) 28=-10	95(B) 29=-105(B) 30=-105(B) 31=-106(B) 32=	=-417(B)
33=-107(B) 3	4=-59(B) 35=-59(B) 36=-59(E	3) 37=-59(B) 38=-59(B) 39=-59(B) 40=-48(B)	41=-48(B)	· /		(2)
22) Reversal: Dead + 0.6 Uniform Loads (plf)	MWFRS Wind (Neg. Internal)) Right: Lumber Increase=1.60, Plate Increas	e=1.60			
u ,	2-4=-11, 4-8=-3, 2-15=-20, 3-	-11=-20, 9-10=-20				
Horz: 1-2=-15 Drag: 4-5=-0	5, 2-4=-9, 8-9=-24					
Concentrated Loads (lb)					
					05(B) 29=-105(B) 30=-105(B) 31=-106(B) 32=	=-417(B)
		3) 37=-59(B) 38=-59(B) 39=-59(B) 40=-48(B)) 1st Parallel: Lumber Increase=1.60, Plate Ir			43=-51(B)	
Uniform Loads (plf)						
	2-4=16, 4-8=6, 2-15=-12, 3-1 3, 2-4=-28, 8-9=15	11=-12, 9-10=-12				
Drag: 4-5=-0						
Concentrated Loads (Vert: 14=-69(,	2=-100(B) 23=-100(B) 24=-100(B) 25=-100(B) 26=-100(F	3) 27=-100	(B) 28=-114(B) 29=-114(B) 30=-114(B) 31=-1	114(B)
32=-425(B) 3	3=-107(B) 34=-67(B) 35=-67((B) 36=-67(B) 37=-67(B) 38=-67(B) 39=-67(E)) 40=-56(B)	41=-56(B)		
24) Reversal: Dead + 0.6 Uniform Loads (plf)	MWFRS Wind (Pos. Internal)) 2nd Parallel: Lumber Increase=1.60, Plate I	ncrease=1.	60		
u ,	2-4=6, 4-8=6, 2-15=-12, 3-11=	=-12, 9-10=-12				
Horz: 1-2=-12 Drag: 4-5=-0	2, 2-4=-18, 8-9=-7					
Concentrated Loads (lb)					
		2=-100(B) 23=-100(B) 24=-100(B) 25=-100(B) 2				
	=-56(B) 41=-56(B) 42=-56(B)	25(B) 33=-107(B) 34=-67(B) 35=-67(B) 36=-6 0 43=-57(B)	ол(в) 37=-0	/(В) 38=-0	7(В)	
,	MWFRS Wind (Neg. Internal)) 1st Parallel: Lumber Increase=1.60, Plate I	crease=1.6	0		
Uniform Loads (plf) Vert: 1-2=3.2	2-4=-3, 4-8=-14, 2-15=-20, 3-	11=-20. 9-10=-20				
Horz: 1-2=-23	3, 2-4=-17, 8-9=4					
Drag: 4-5=-0 Concentrated Loads (lb)					
		81(B) 23=-81(B) 24=-81(B) 25=-81(B) 26=-8	I(B) 27=-81	(B) 28=-95	6(B) 29=-95(B)	
	=-97(B) 32=-417(B) 33=-107(=-48(B) 43=-51(B)	(B) 34=-59(B) 35=-59(B) 36=-59(B) 37=-59(B)) 38=-59(B)	39=-59(B)) 40=-48(B)	
26) Reversal: Dead + 0.6) 2nd Parallel: Lumber Increase=1.60, Plate	ncrease=1.	60		
Uniform Loads (plf)		2 11 - 20 0 10 - 20				
	2-4=-14, 4-8=-14, 2-15=-20, 3 2, 2-4=-6, 8-9=-19	3-11=-20, 9-10=-20				
Drag: 4-5=-0						
Concentrated Loads (Vert: 14=-61(81(B) 23=-81(B) 24=-81(B) 25=-81(B) 26=-8	1(B) 27=-81	(B) 28=-95	i(B) 29=-95(B)	
30=-95(B) 31	=-97(B) 32=-417(B) 33=-107	(B) 34=-59(B) 35=-59(B) 36=-59(B) 37=-59(E)				
	=-48(B) 43=-51(B) 5 Roof Live (bal.) + 0.75(0.6 N	MWFRS Wind (Neg. Int) Left): Lumber Increa	se=1.60 PI	ate Increas	se=1.60	
2., Rovoroal. Dodd (* 0.70						

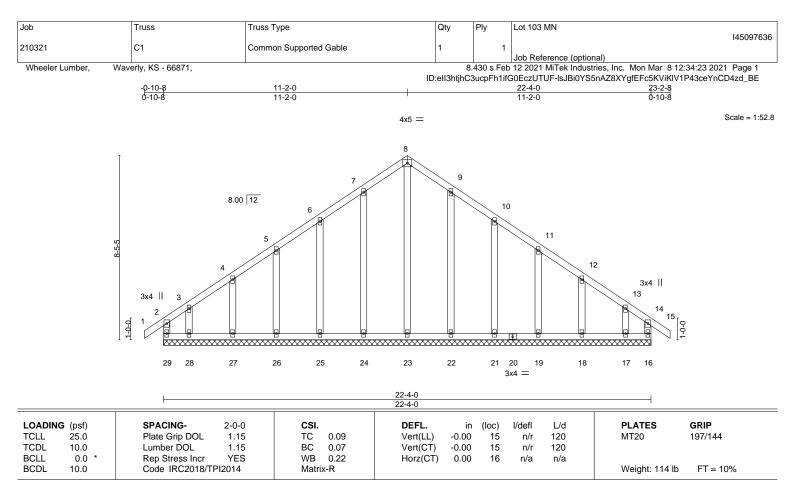
Continued on page 5



Job	Truss	Truss Type	Qty	Ply	Lot 103 MN
10321	B14	Half Hip Girder	1	-	1450976
10321			'	2	Job Reference (optional)
Wheeler Lumber,	Waverly, KS - 66871,	l		8.430 s Fe	eb 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:13 2021 Page 5
			ID:ell3htjl	nC3ucpFh1if	ifG0EczUTUF-2wiPbbQBSiw_x?nl384GhD4ouj_D3Rp8L_Mgtfzd_BO
OAD CASE(S) St					
Uniform Loads					
		2-15=-20, 3-11=-20, 9-10=-20			
Drag: 4	-2=-11, 2-4=-7, 8-9=5				
Concentrated L					
	· · /	-93(B) 22=-93(B) 23=-93(B) 24=-93(B) 25=-9	2(P) 26_ 02(P) 27_	02(0) 20-	124/P) 20- 124/P) 20- 124/P) 21- 121/P)
		B) 35=-78(B) 36=-78(B) 37=-78(B) 38=-78(B)			
	() () ()	0.75(0.6 MWFRS Wind (Neg. Int) Right): Lur	()	, (, , , , ,
Uniform Loads		0.75(0.0 MWH NO WING (Neg. Int) Night). Eu			ease=1.00
		2-15=-20, 3-11=-20, 9-10=-20			
	-2=-11, 2-4=-7, 8-9=-18	2 10 - 20, 0 11 - 20, 0 10 - 20			
Drag: 4	, ,				
Concentrated L					
	· · /	-93(B) 22=-93(B) 23=-93(B) 24=-93(B) 25=-9	3(B) 26=-93(B) 27=-	93(B) 28=-	-124(B) 29=-124(B) 30=-124(B) 31=-131(B)
		B) 35=-78(B) 36=-78(B) 37=-78(B) 38=-78(B)			
29) Reversal: Dead	+ 0.75 Roof Live (bal.) +	0.75(0.6 MWFRS Wind (Neg. Int) 1st Paralle	I): Lumber Increase	-1.60, Plate	e Increase=1.60
Uniform Loads	(plf)				
Vert: 1-	2=-41, 2-4=-45, 4-8=-53,	2-15=-20, 3-11=-20, 9-10=-20			
Horz: 1	-2=-17, 2-4=-12, 8-9=3				
Drag: 4					
Concentrated L	· · /				
		-85(B) 22=-85(B) 23=-85(B) 24=-85(B) 25=-8			
		B) 35=-78(B) 36=-78(B) 37=-78(B) 38=-78(B)			
,	()	0.75(0.6 MWFRS Wind (Neg. Int) 2nd Paralle	el): Lumber Increase	=1.60, Plat	te Increase=1.60
Uniform Loads		0.45 00 0.44 00 0.40 00			
	, , ,	2-15=-20, 3-11=-20, 9-10=-20			
Drag: 4	-2=-9, 2-4=-5, 8-9=-14				
Concentrated L					
		-85(B) 22=-85(B) 23=-85(B) 24=-85(B) 25=-8	5(B) 2685(B) 27	85(B) 28	116(B) 20-116(B) 30-116(B) 31-125(B)
		B) 35=-78(B) 36=-78(B) 37=-78(B) 38=-78(B)			
		. Left: Lumber Increase=1.60, Plate Increase		b) 11= 00(E	B) 12= 00(B) 10= 00(B)
Uniform Loads		,,			
		2-15=-12, 3-11=-12, 9-10=-12			
Horz: 2	-4=3				
Concentrated L	oads (lb)				
Vert: 14	4=-62(B) 20=-67(B) 21=-6	65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65	(B) 26=-65(B) 27=-6	5(B) 28=-73	73(B) 29=-73(B) 30=-73(B) 31=-75(B) 32=-364(B)
) 36=-57(B) 37=-57(B) 38=-57(B) 39=-57(B)		42=-52(B)) 43=-53(B)
		. Right: Lumber Increase=1.60, Plate Increas	e=1.60		
Uniform Loads					
	4=-12, 4-8=-12, 2-15=-12	2, 3-11=-12, 9-10=-12			
Horz: 8					
Concentrated L	oode (lb)				

Concentrated Loads (lb) Vert: 14=-62(B) 20=-68(B) 21=-65(B) 22=-65(B) 23=-65(B) 24=-65(B) 25=-65(B) 26=-65(B) 27=-65(B) 28=-73(B) 29=-73(B) 30=-73(B) 31=-75(B) 32=-364(B) 33=-107(B) 34=-57(B) 35=-57(B) 36=-57(B) 38=-57(B) 39=-57(B) 40=-52(B) 41=-52(B) 42=-52(B) 43=-53(B)





LUMBER-

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

BOT CHORD

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

REACTIONS. All bearings 22-4-0.

Max Horz 29=239(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 24, 25, 26, 27, 22, 21, 19, 18 except 29=-151(LC 4), 28=-163(LC 8), 17=-146(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 29, 16, 23, 24, 25, 26, 27, 28, 22, 21, 19, 18, 17

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

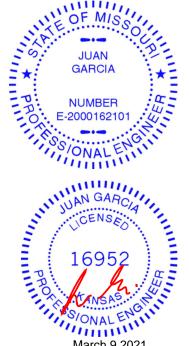
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult gualified building designer as per ANSI/TPI 1.

- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 24, 25, 26, 27, 22, 21, 19, 18 except (jt=lb) 29=151, 28=163, 17=146.

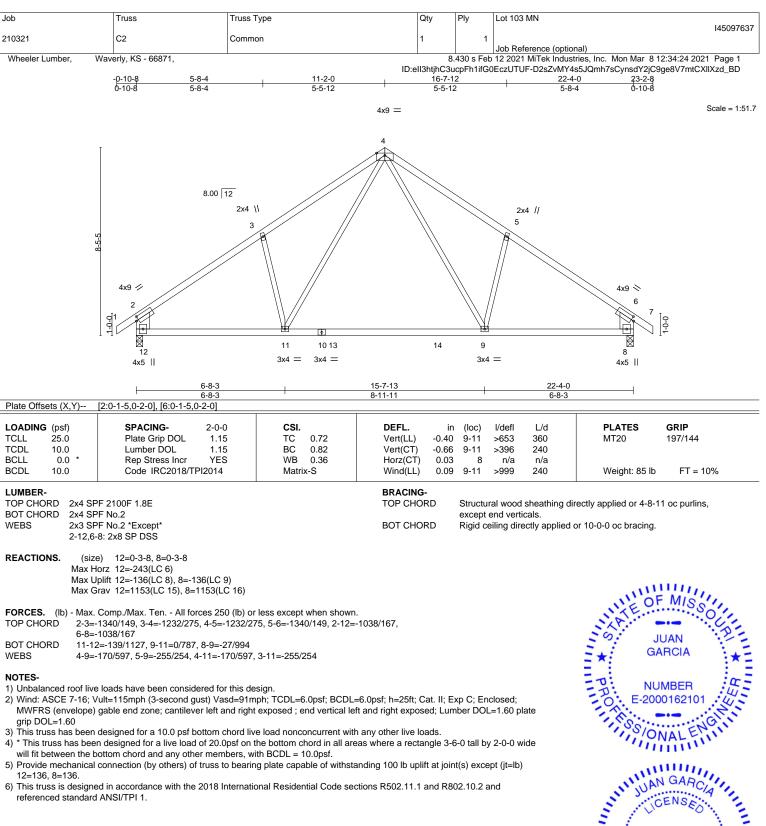
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MiTek

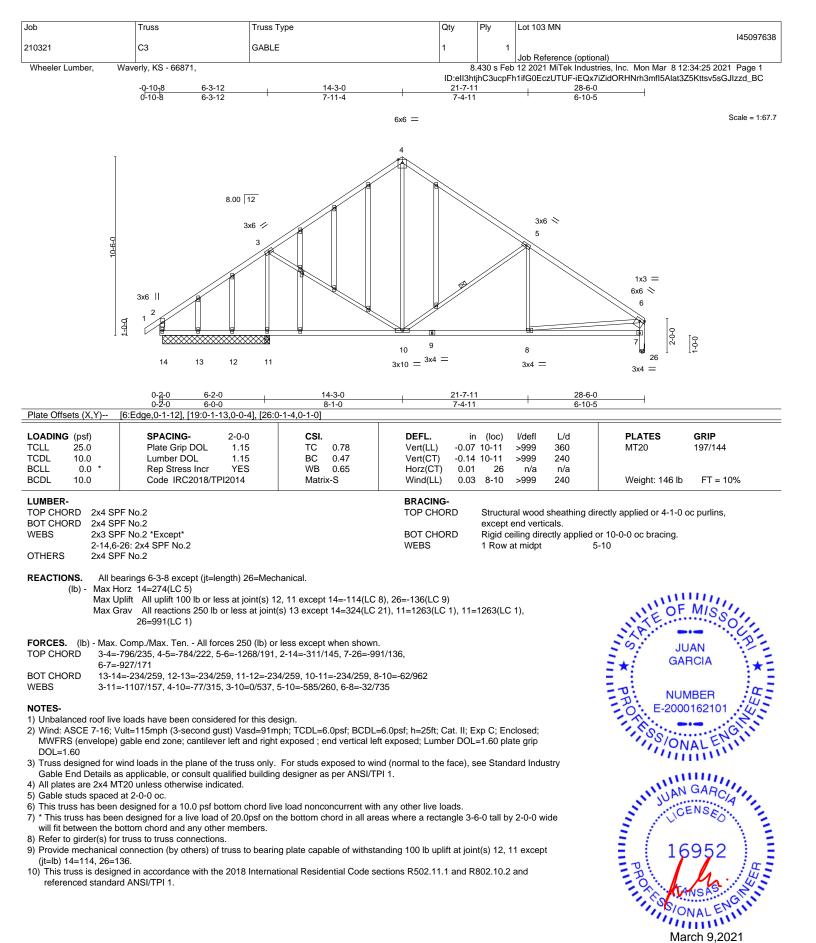
16023 Swingley Ridge Rd Chesterfield, MO 63017

March 9,2021

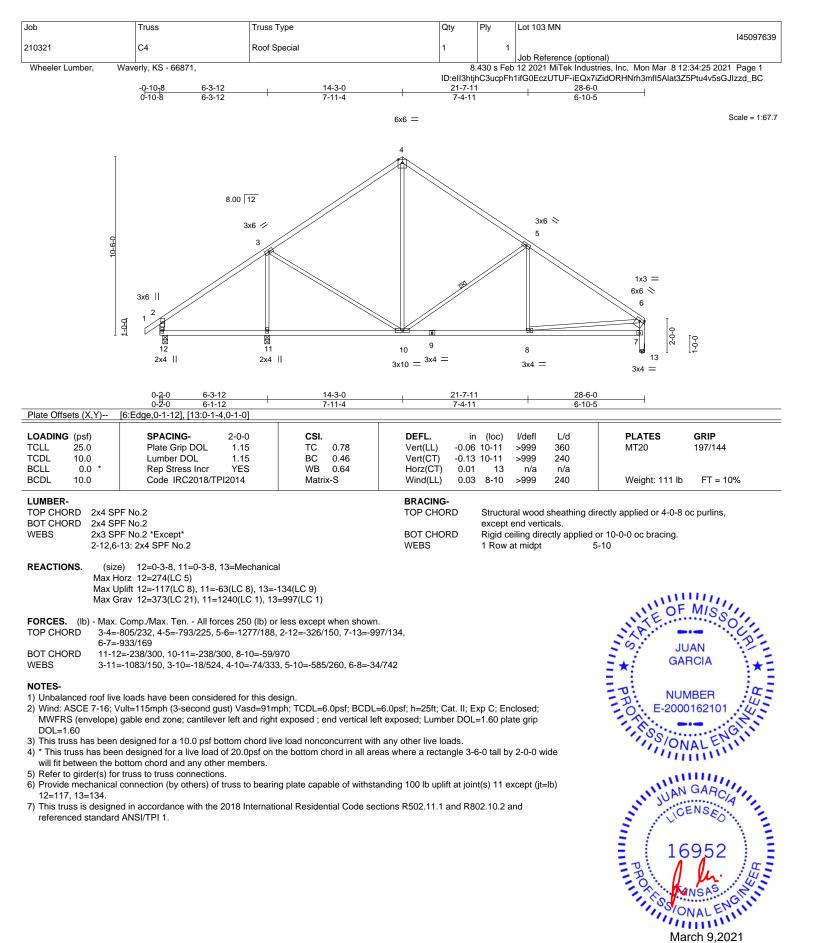




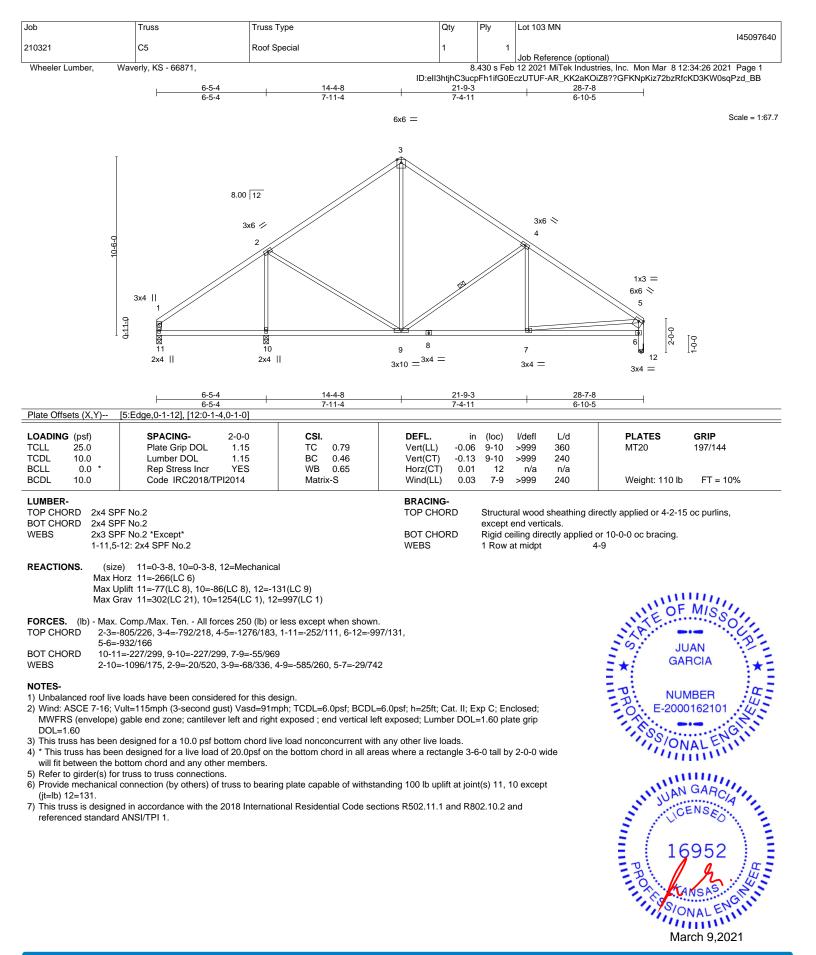
component 16023 Swingley Ridge Rd Chesterfield, MO 63017



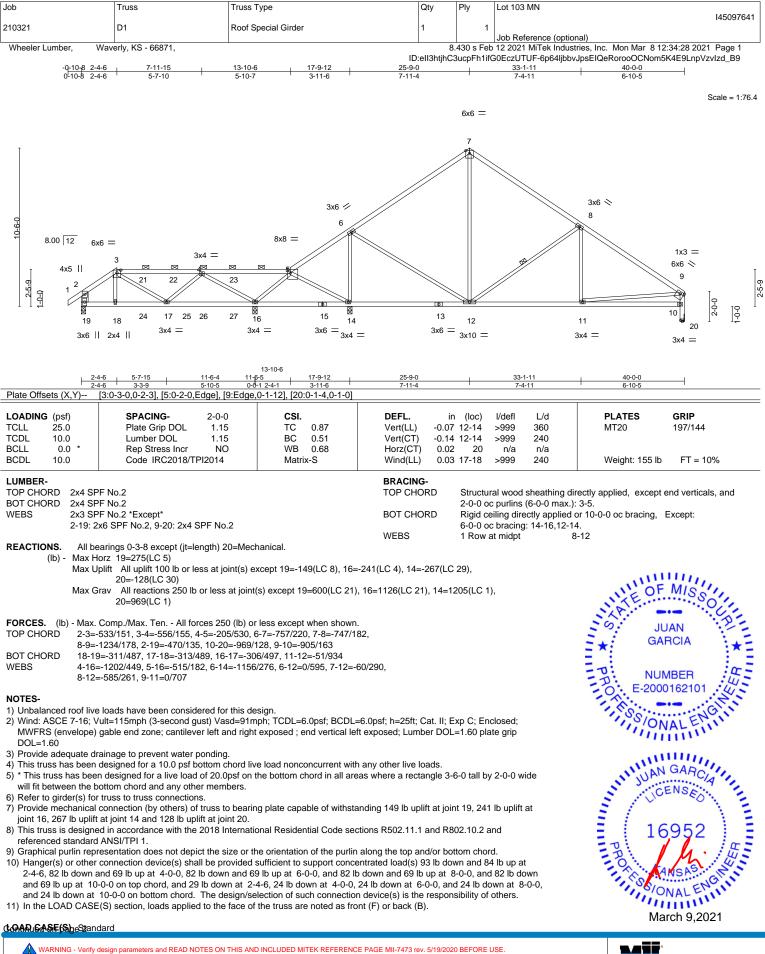
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Job	Truss	Truss Type	Qty	Ply	Lot 103 MN	
					145097641	
210321	D1	Roof Special Girder	1	1		
					Job Reference (optional)	
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:28 2021 Page 2						
		ID:eII3htjhC3ucpFh1ifG0EczUTUF-6p64ljbbvJpsEIQeRorooOCNom5K4E9LnpVzvIzd_B9				

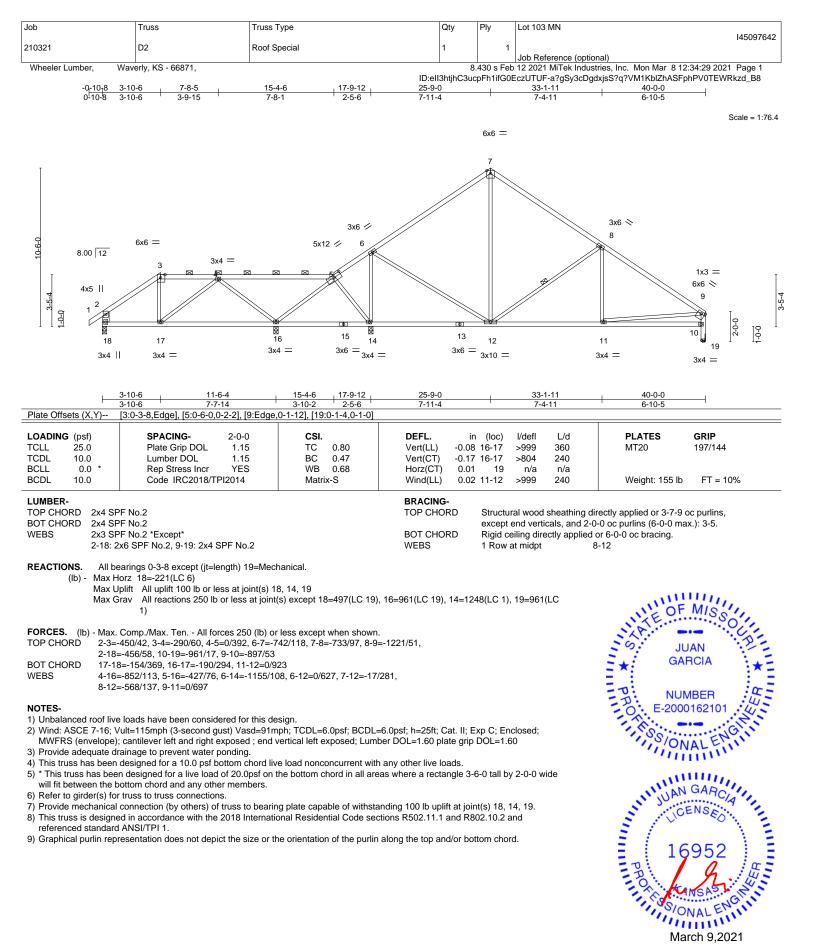
LOAD CASE(S) Standard

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, 5-7=-70, 7-9=-70, 10-19=-20

Concentrated Loads (lb) Vert: 3=-18(F) 18=-16(F) 4=-32(F) 21=-32(F) 22=-32(F) 23=-32(F) 24=-17(F) 25=-17(F) 26=-17(F) 27=-17(F) 26=-17(F) 27=-17(F) 26=-17(F) 27=-17(F) 26=-17(F) 26=-17(F

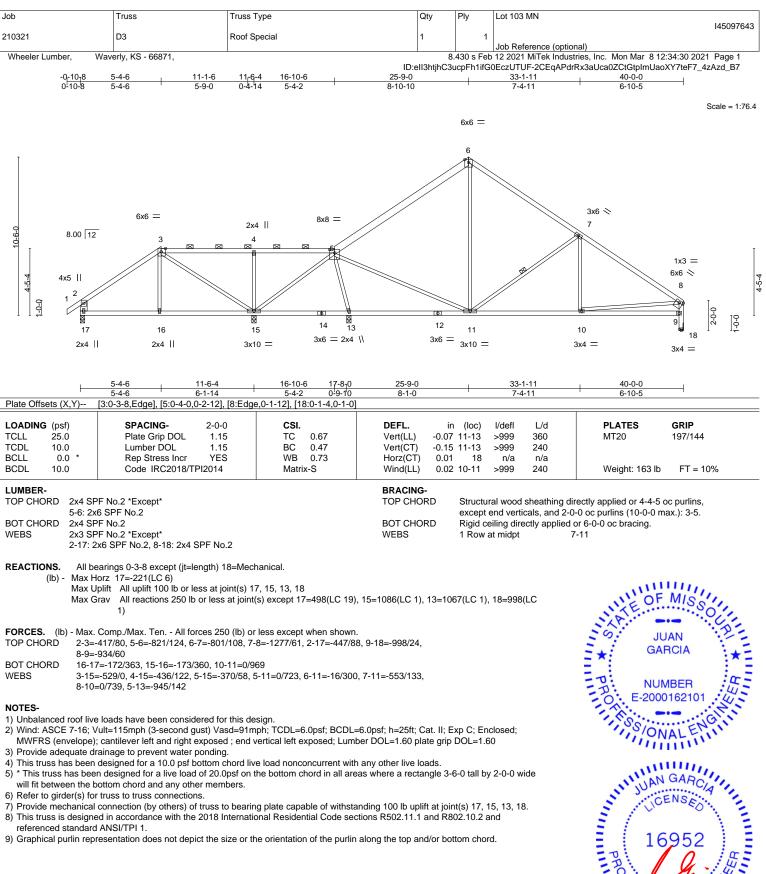




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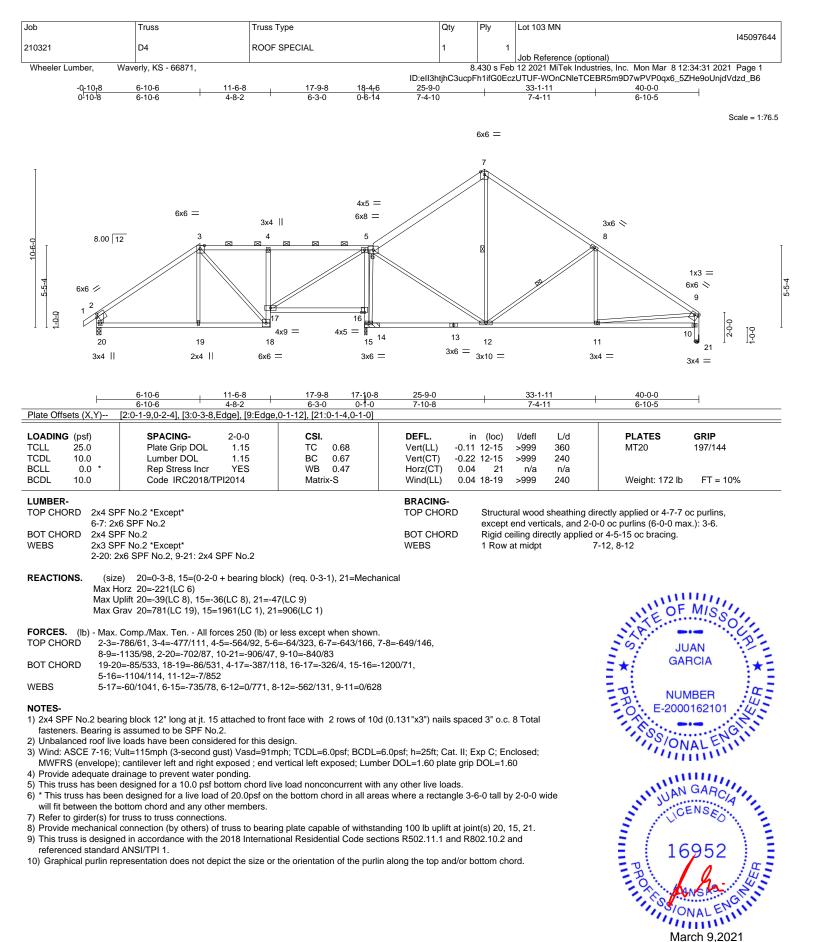
March 9.2021

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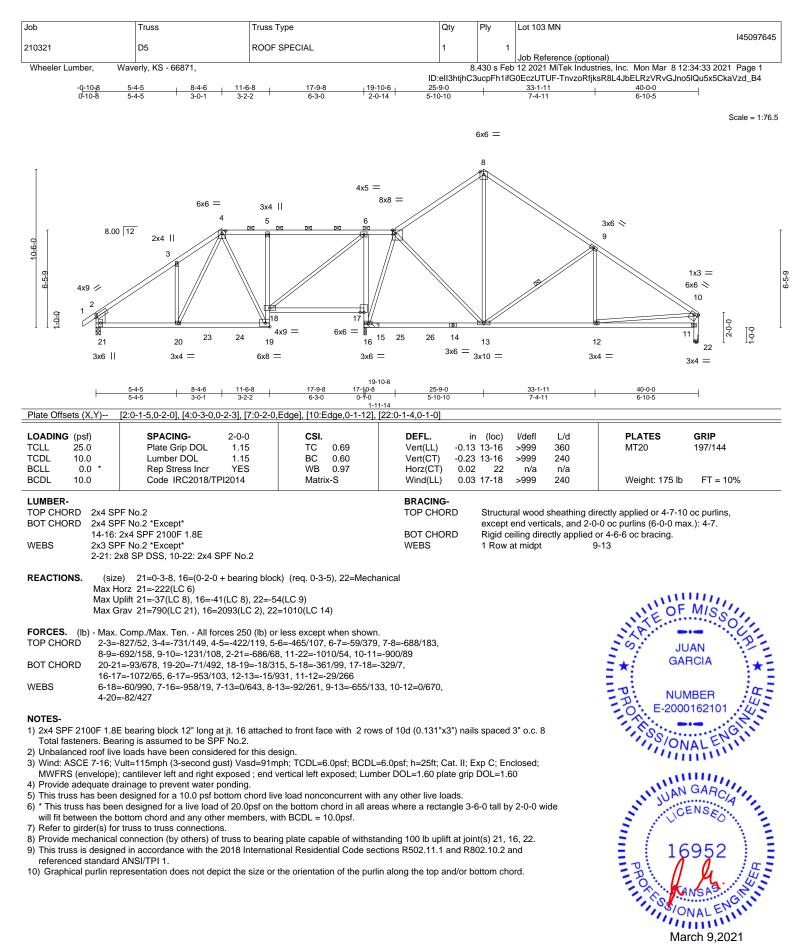




MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

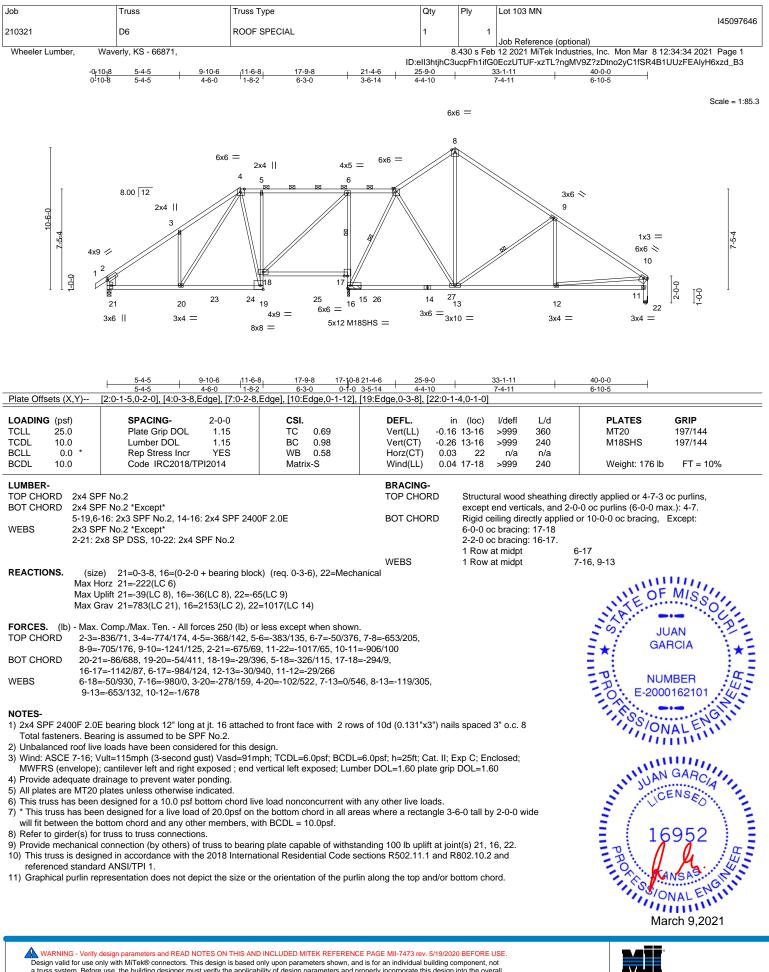






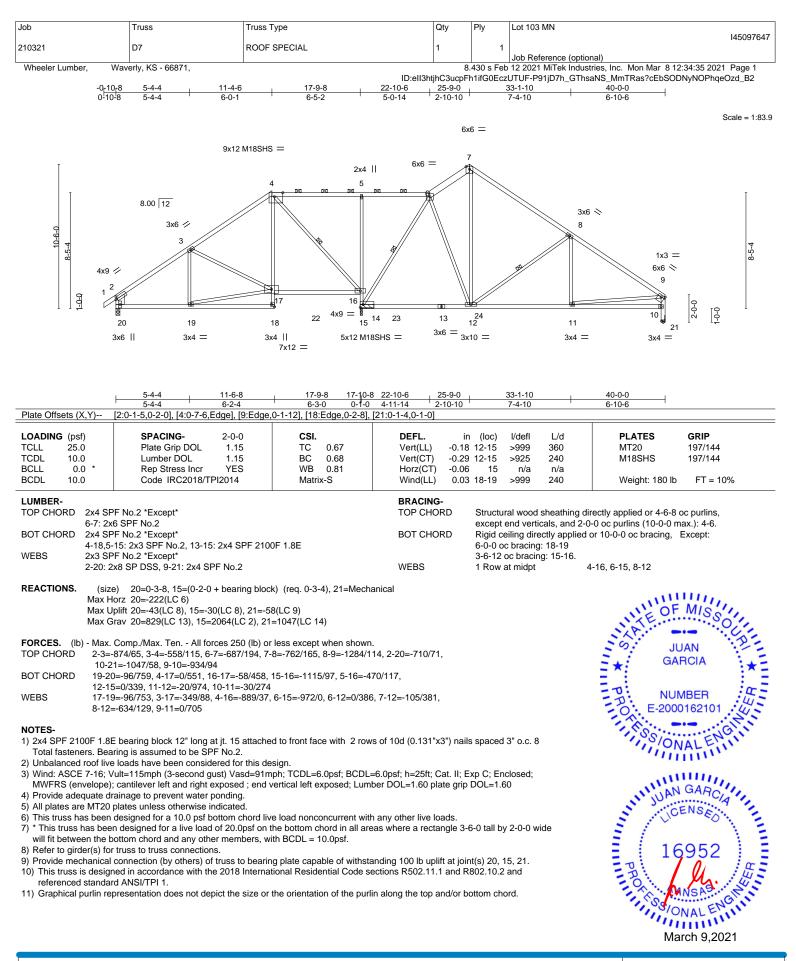
Milek

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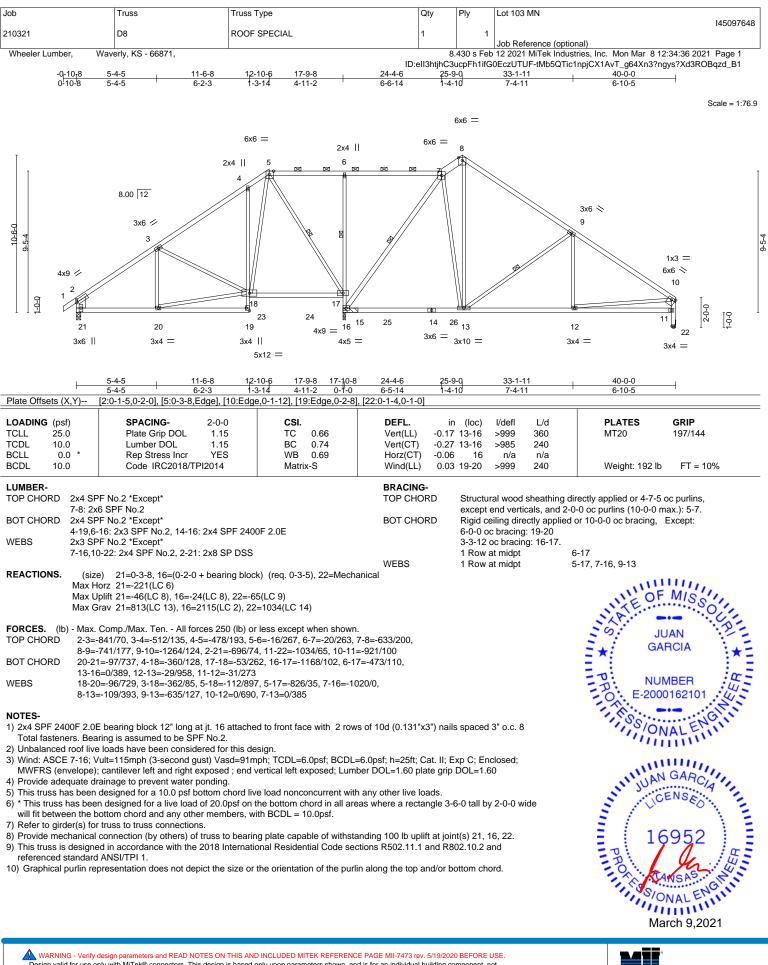
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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

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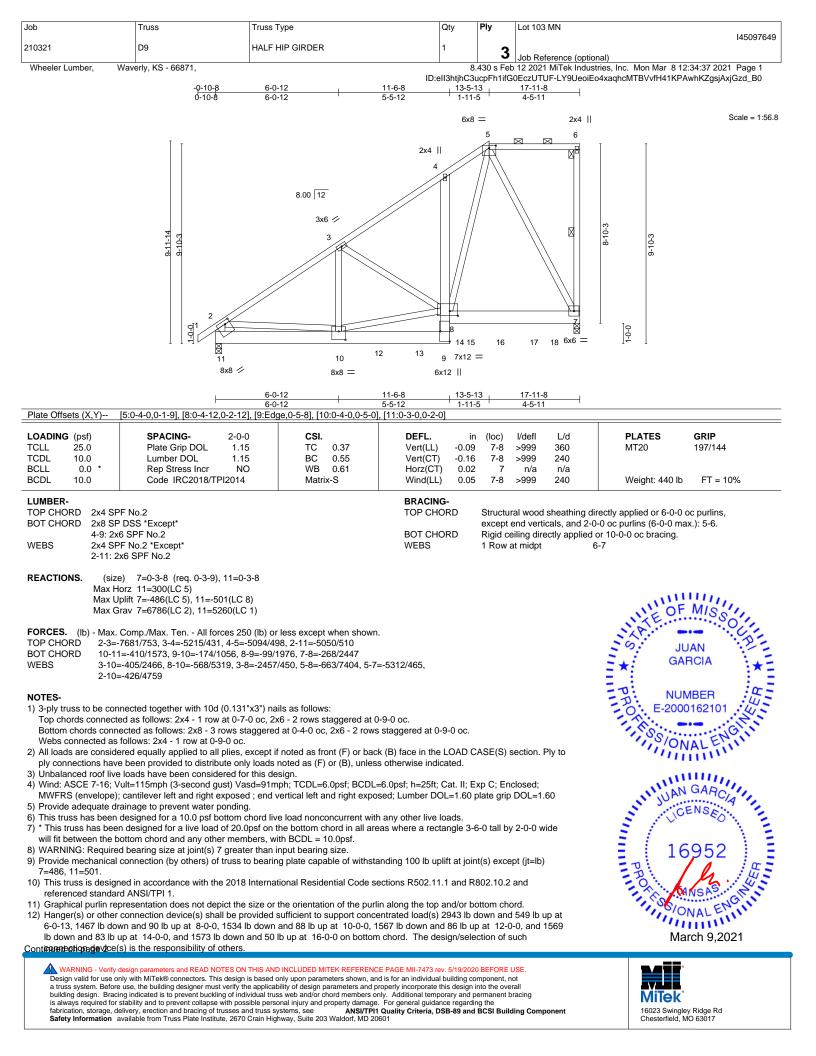


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPI (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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ſ	Job	Truss	Truss Type	Qty	Ply	Lot 103 MN
						145097649
	210321	D9	HALF HIP GIRDER	1	2	
					3	Job Reference (optional)
	Wheeler Lumber, Wave	erly, KS - 66871,		8.	430 s Feb	12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:37 2021 Page 2

ID:eII3htjhC3ucpFh1ifG0EczUTUF-LY9UeoiEo4xaqhcMTBVvfH41KPAwhKZgsjAxjGzd_B0

LOAD CASE(S) Standard

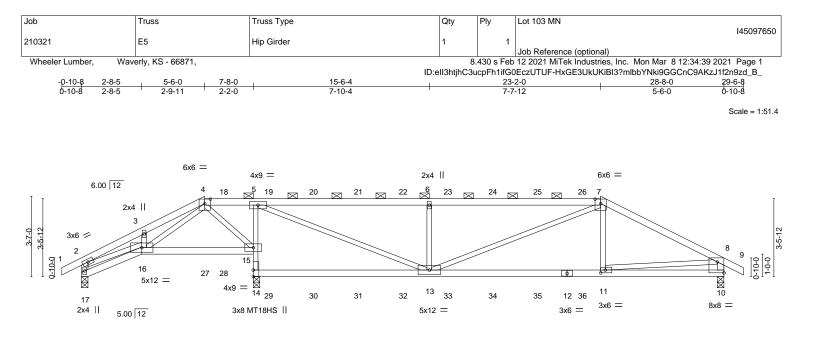
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-70, 2-5=-70, 5-6=-70, 9-11=-20, 7-8=-20

Concentrated Loads (lb)

Vert: 10=-2943(B) 12=-1467(B) 13=-1465(B) 14=-1465(B) 16=-1464(B) 18=-1464(B)





⊢	2-8-5	5-6-0	7-8-0 7-9-12	15-6-4				3-2-0		28-8-0	
Plate Offsets (X	2-8-5	2-9-11	2-2-0 0-1-12	<u>7-8-8</u> 9,0-5-13], [11:0-2-8,0-1-8]	1		7-	7-12		5-6-0	
Fidle Olisels (A	(,1) [4.0-	5-0,0-2-7], [7.0-5	-0,0-2-7], [10.Euge	;,0-5-15j, [11.0-2-0,0-1-0]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	0 0 0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inc Code IRC2018	1.15 r NO	CSI. TC 0.79 BC 0.88 WB 0.84 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.14 -0.30 -0.02	(loc) 13-14 13-14 14 14 11-13	l/defl >999 >826 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 103 lb	GRIP 197/144 197/144 FT = 10%
	2x4 SPF No 5-14: 2x3 S 2x3 SPF No	F 2100F 1.8E 0.2 *Except*			BRACING TOP CHC BOT CHC	3-)RD	Structu	end verti	sheathing di cals, and 2-0	rectly applied or 3-9-8 c 0-0 oc purlins (4-1-3 ma or 2-7-13 oc bracing.	
REACTIONS.	Max Horz Max Uplift		-8, 10=0-3-8 =-501(LC 5), 10=-2 4=2038(LC 1), 10							INTE OF	MISSO
FORCES. (Ib) TOP CHORD BOT CHORD	2-3=-740/ 2-17=-410	202, 3-4=-726/26 0/134, 8-10=-1294	7, 5-6=-2104/466, 4/298	less except when shown 6-7=-2107/467, 7-8=-205 28/1755, 10-11=-133/345	50/439,						JAN RCIA
WEBS	4-16=-235	5/720, 4-15=-297/	,	892, 6-13=-795/358, 7-13						PR. NUN P. E-2000	MBER 44
NOTES-											
2) Wind: ASCE	7-16; Vult= velope) gabl	115mph (3-second		sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical le					ate	ISS/ON	ALENGII
		ge to prevent wat	er ponding.								ш <u>п.</u>
		s unless otherwis									GAD
				e load nonconcurrent with						111 UAN	CIA
				he bottom chord in all are	eas where a recta	angle 3-6	5-0 tall b	y 2-0-0 w	ide	N	ENSE
	oint(s) 17 cor			ANSI/TPI 1 angle to grair	n formula. Buildi	ng desig	ner shou	ıld verify		The Lot	
8) Provide mec	hanical conr) of truss to bearin	g plate capable of withsta	anding 100 lb up	lift at joir	nt(s) 17 e	except (jt=	=lb)	16	952
14=501, 10= 9) This truss is		accordance with t	the 2018 Internatio	onal Residential Code see	ctions R502.11.1	and R8	02.10.2 ;	and		= 2	10 1953

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.

Continued on page 2

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March 9,2021



[Job	Truss	Truss Type	Qty	Ply	Lot 103 MN
						145097650
	210321	E5	Hip Girder	1	1	Job Reference (optional)
l	Wheeler Lumber. Wave	erly, KS - 66871,		8.		12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:39 2021 Page 2

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 105 lb down and 97 lb up at 6-4-0, 100 lb down and 63 lb up at 8-4-0, 100 lb down and 63 lb up at 10-4-0, 100 lb down and 63 lb up at 12-4-0, 100 lb down and 63 lb up at 14-4-0, 100 lb down and 63 lb up at 16 up at 18-4-0, and 100 lb down and 63 lb up at 20-4-0, and 98 lb down and 63 lb up at 22-4-0 on top chord, and 227 lb down and 143 lb up at 5-6-0, 33 lb down at 6-4-0, 32 lb down at 8-4-0, 32 lb down at 10-4-0, 32 lb down

ID:ell3htjhC3ucpFh1ifG0EczUTUF-HxGE3UkUKiBI3?mlbbYNki9GGCnC9AKzJ1f2n9zd_B_

down at 22-4-0, and 229 lb down and 140 lb up at 23-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 12) 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

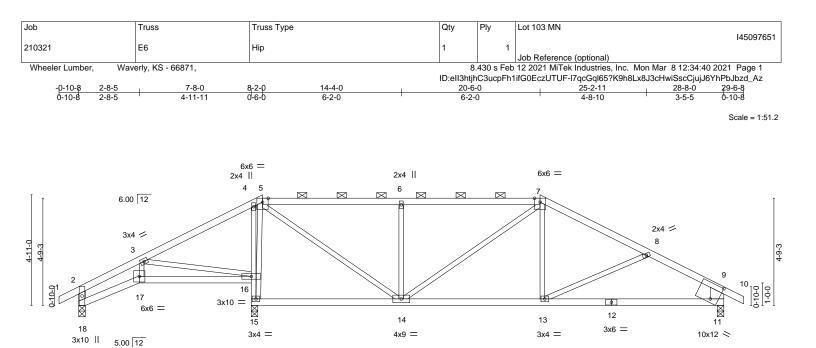
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-7=-70, 7-8=-70, 8-9=-70, 16-17=-20, 15-16=-20, 10-14=-20

Concentrated Loads (lb)

Vert: 11=-229(B) 18=-46(B) 19=-46(B) 20=-46(B) 21=-46(B) 22=-46(B) 23=-46(B) 24=-46(B) 25=-46(B) 26=-46(B) 27=-227(B) 28=-21(B) 29=-22(B) 30=-22(B) 30=-22(B 31=-22(B) 32=-22(B) 33=-22(B) 34=-22(B) 35=-22(B) 36=-22(B)



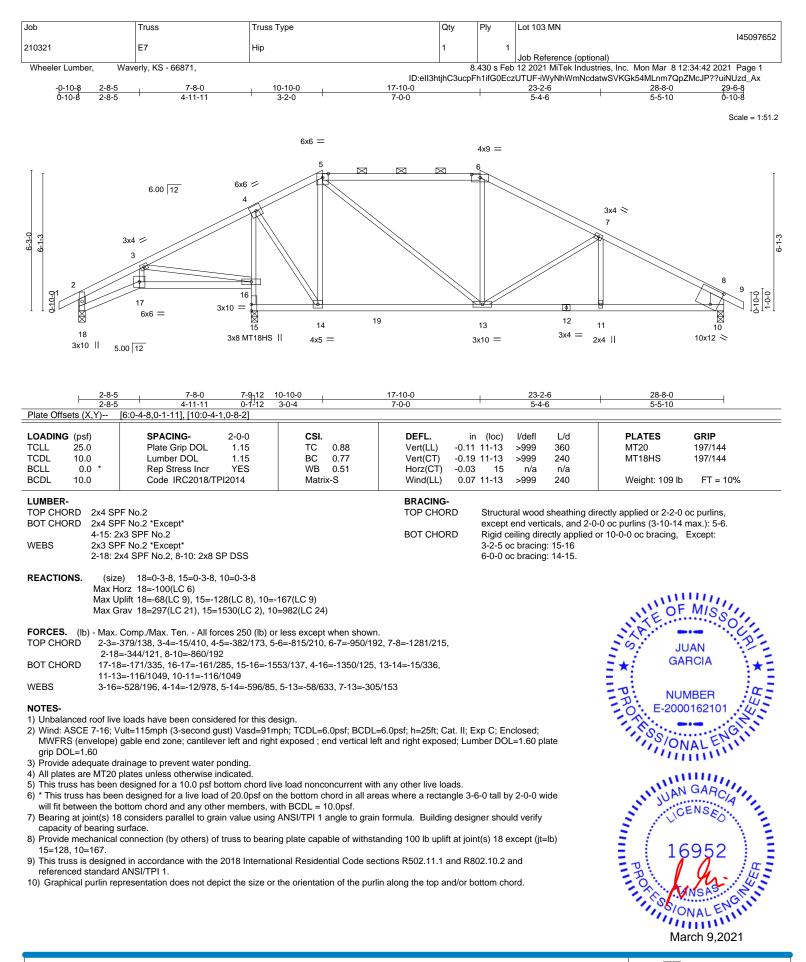


	-8-5 -8-5	7-8-0 4-11-11	<u>7-9-12</u> 0-1-12	14-4-0 6-6-4		+	<u>20-6-</u> 6-2-(28-8-0 8-2-0	
Plate Offsets (X,Y)-	- [11:0-4-1	,0-8-2]										
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	Pla Lu Re	PACING- ate Grip DOL Imber DOL ep Stress Incr ode IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.74 BC 0.54 WB 0.41 Matrix-S		DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	-0.09 -0.19 -0.03	(loc) 11-13 11-13 15 13-14	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 107 lb	GRIP 197/144 FT = 10%
80T CHORD 2x4 4-19 WEBS 2x3	: 2x4 SPF No SPF No.2 *E 5: 2x3 SPF N SPF No.2 *E	Except* lo.2	SP DSS			BRACING- TOP CHOF BOT CHOF	RD	except	end verti	cals, and 2-0	rectly applied or 4-11-1)-0 oc purlins (5-6-6 ma or 4-9-8 oc bracing.	
Ma Ma	x Horz 18=-8 x Uplift 18=-6	0-3-8, 15=0-3-8, ⁻ 85(LC 6) 64(LC 8), 15=-14 805(LC 21), 15=1	46(LC 5), 11=-								IN A TE OF	MISSO
TOP CHORD 2- 8- BOT CHORD 17	-3=-381/125, -9=-1248/205 7-18=-137/30 1-13=-124/98	3-4=-19/305, 5-6 5, 2-18=-358/114 08, 16-17=-129/2 88	6=-919/247, 6- I, 9-11=-895/18 270, 15-16=-75	less except when sh 7=-917/246, 7-8=-11 0 5/239, 4-16=-602/22 03, 6-14=-512/210, 7	31/186, 9, 13-14=	,					★ GAF	IAN RCIA
	6; Vult=115m pe) gable end	nph (3-second gu d zone; cantileve	ust) Vasd=91m er left and right	sign. ph; TCDL=6.0psf; B(exposed ; end vertic						ate	E-2000	ALENGINI
 4) This truss has be 5) * This truss has be will fit between th 6) Bearing at joint(s capacity of bearin 7) Provide mechanin 15=146, 11=140. 8) This truss is desi 	een designed been designe ne bottom cho s) 18 consider ng surface. ical connectio igned in acco	I for a 10.0 psf bo ad for a live load ord and any othe rs parallel to grai on (by others) of ordance with the	ottom chord liv of 20.0psf on t er members. in value using truss to bearin	e load nonconcurren he bottom chord in a ANSI/TPI 1 angle to g plate capable of wi onal Residential Code	ll areas w grain form thstandin	here a rectar nula. Building g 100 lb uplif	ngle 3-6 g desig t at join	ner shou nt(s) 18 e	uld verify except (jt=	ide =lb)	PRO 16	GARCIA INSEO
referenced stand 9) Graphical purlin			ct the size or th	e orientation of the p	urlin alon	g the top and	l/or bot	tom cho	rd.		1115510	NSAS CHUIN

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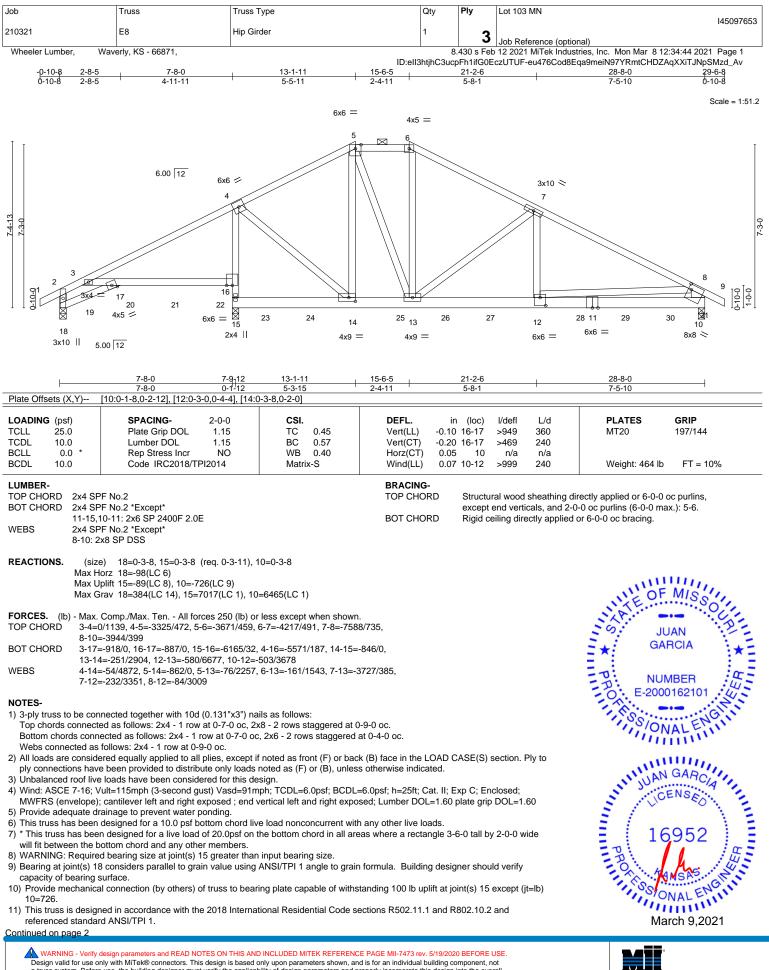
16023 Swingley Ridge Rd Chesterfield, MO 63017

March 9,2021



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16023 Swingley Ridge Rd Chesterfield, MO 63017

MiTek

Job	Truss	Truss Type	Qty	Ply	Lot 103 MN
210321	E8	Hip Girder	1		145097653
210521	LO		1	3	Job Reference (optional)
Wheeler Lumber,	Waverly, KS - 66871,		8	.430 s Feb	12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:44 2021 Page 2

8.430 s Feb 12 2021 Mi l ek Industries, Inc. Mon Mar 8 12:34:44 2021 Page 2 ID:ell3htjhC3ucpFh1ifG0EczUTUF-eu476Cod8Eqa9meiN97YRmtCHDZAqXXiTJNpSMzd_Av

NOTES-

12) 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 260 lb down at 0-11-13, 240 lb down at 3-1-7, 240 lb down at 5-1-7, 240 lb down at 7-1-7, 919 lb down and 85 lb up at 9-1-7, 935 lb down and 78 lb up at 11-1-7, 900 lb down and 85 lb up at 13-1-7, 900 lb down and 74 lb up at 15-1-7, 882 lb down and 67 lb up at 17-1-7, 978 lb down and 44 lb up at 19-1-7, 941 lb down and 37 lb up at 21-1-7, 949 lb down and 148 lb up at 23-1-7, 977 lb down and 151 lb up at 25-1-7, and 977 lb down and 154 lb up at 27-1-7, and 971 lb down and 156 lb up at 27-5-4 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: 1-2=-70, 2-5=-70, 5-6=-70, 6-8=-70, 8-9=-70, 17-18=-20, 16-17=-20, 10-15=-20 Concentrated Loads (lb)

Vert: 14=-868(F) 12=-941(F) 19=-260(F) 20=-240(F) 21=-240(F) 22=-240(F) 23=-877(F) 24=-894(F) 25=-869(F) 26=-882(F) 27=-978(F) 28=-949(F) 29=-977(F) 30=-977(F) 31=-971(F)

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-57, 2-5=-58, 5-6=-58, 6-8=-58, 8-9=-57, 17-18=-20, 16-17=-20, 10-15=-20

Concentrated Loads (lb)

Vert: 14=-900(F) 12=-807(F) 19=-260(F) 20=-204(F) 21=-204(F) 22=-204(F) 23=-919(F) 24=-935(F) 25=-900(F) 26=-757(F) 27=-838(F) 28=-814(F) 29=-838(F) 30=-838(F) 31=-833(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-6=-20, 6-8=-20, 8-9=-20, 17-18=-40, 16-17=-40, 10-15=-40

Concentrated Loads (lb)

Vert: 14=-551(F) 12=-594(F) 19=-260(F) 20=-133(F) 21=-133(F) 22=-133(F) 23=-561(F) 24=-572(F) 25=-551(F) 26=-558(F) 27=-611(F) 28=-599(F) 29=-623(F) 30=-622(F) 31=-612(F)

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=11, 2-5=-3, 5-6=16, 6-8=8, 8-9=3, 17-18=-12, 16-17=-12, 10-15=-12

Horz: 1-2=-23, 2-5=-9, 6-8=20, 8-9=15, 2-18=12, 8-10=18

Concentrated Loads (lb)

Vert: 14=77(F) 12=29(F) 19=-260(F) 20=-57(F) 21=-57(F) 22=-57(F) 23=77(F) 24=70(F) 25=66(F) 26=59(F) 27=36(F) 28=140(F) 29=143(F) 30=146(F) 31=148(F) 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=3, 2-5=8, 5-6=16, 6-8=-3, 8-9=11, 17-18=-12, 16-17=-12, 10-15=-12

Horz: 1-2=-15, 2-5=-20, 6-8=9, 8-9=23, 2-18=-18, 8-10=-12

Concentrated Loads (lb)

Vert: 14=77(F) 12=29(F) 19=-260(F) 20=-57(F) 21=-57(F) 22=-57(F) 23=77(F) 24=70(F) 25=66(F) 26=59(F) 27=36(F) 28=140(F) 29=143(F) 30=146(F) 31=148(F) 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-17, 2-5=-23, 5-6=-3, 6-8=-11, 8-9=-5, 17-18=-20, 16-17=-20, 10-15=-20

Horz: 1-2=-3, 2-5=3, 6-8=9, 8-9=15, 2-18=24, 8-10=6

Concentrated Loads (lb)

Vert: 14=85(F) 12=37(F) 19=-260(F) 20=-49(F) 21=-49(F) 22=-49(F) 23=85(F) 24=78(F) 25=74(F) 26=67(F) 27=44(F) 28=148(F) 29=151(F) 30=154(F) 31=156(F) 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-5, 2-5=-11, 5-6=-3, 6-8=-23, 8-9=-17, 17-18=-20, 16-17=-20, 10-15=-20

Horz: 1-2=-15, 2-5=-9, 6-8=-3, 8-9=3, 2-18=-6, 8-10=-24

Concentrated Loads (lb)

Vert: 14=85(F) 12=37(F) 19=-260(F) 20=-49(F) 21=-49(F) 22=-49(F) 23=85(F) 24=78(F) 25=74(F) 26=67(F) 27=44(F)

28=148(F) 29=151(F) 30=154(F) 31=156(F)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=11, 2-5=16, 5-6=6, 6-8=6, 8-9=0, 17-18=-12, 16-17=-12, 10-15=-12

Horz: 1-2=-23, 2-5=-28, 6-8=18, 8-9=12, 2-18=7, 8-10=15

Concentrated Loads (lb)

Vert: 14=77(F) 12=29(F) 19=-260(F) 20=-57(F) 21=-57(F) 22=-57(F) 23=77(F) 24=70(F) 25=66(F) 26=59(F) 27=36(F)

28=140(F) 29=143(F) 30=146(F) 31=148(F) 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

```
Uniform Loads (plf)
```

Vert: 1-2=0, 2-5=6, 5-6=6, 6-8=16, 8-9=11, 17-18=-12, 16-17=-12, 10-15=-12

Horz: 1-2=-12, 2-5=-18, 6-8=28, 8-9=23, 2-18=-15, 8-10=-7

Concentrated Loads (lb)

Vert: 14=77(F) 12=29(F) 19=-260(F) 20=-57(F) 21=-57(F) 22=-57(F) 23=77(F) 24=70(F) 25=66(F) 26=59(F) 27=36(F)

28=140(F) 29=143(F) 30=146(F) 31=148(F)

10) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=3, 2-5=-3, 5-6=-14, 6-8=-14, 8-9=-8, 17-18=-20, 16-17=-20, 10-15=-20

Horz: 1-2=-23, 2-5=-17, 6-8=6, 8-9=12, 2-18=19, 8-10=4

Concentrated Loads (lb)

Vert: 14=85(F) 12=37(F) 19=-260(F) 20=-49(F) 21=-49(F) 22=-49(F) 23=85(F) 24=78(F) 25=74(F) 26=67(F) 27=44(F) 28=148(F) 29=151(F) 30=154(F) 31=156(F)

11) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



Job	Truss	Truss Type	Qty		Ply	Lot 103 MN	145097653
210321	E8	Hip Girder	1		3	Ich Poference (astisse)	143037033
Wheeler Lumber, W	averly, KS - 66871,				130 s Feb	Job Reference (optional) 12 2021 MiTek Industries, Inc. Mon Mar	
			ID:ell3htjhC3	Bucpl	Fh1ifG0E	czUTUF-eu476Cod8Eqa9meiN97YRmtCH	DZAqXXiTJNpSMzd_Av
LOAD CASE(S) Standa Uniform Loads (plf)	ard						
Vert: 1-2=-8		3, 8-9=3, 17-18=-20, 16-17=-20, 10-15=-	20				
Horz: 1-2=- Concentrated Loads	12, 2-5=-6, 6-8=17, 8-9=2 (lb)	3, 2-18=-4, 8-10=-19					
Vert: 14=85	(F) 12=37(F) 19=-260(F)			F) 26	=67(F) 2	27=44(F) 28=148(F) 29=151(F) 30=154(F) 31=156(F)
 Dead + Uninhabitab Uniform Loads (plf) 	le Attic Storage: Lumber I	ncrease=0.90, Plate Increase=0.90 Plt. r	netal=0.90				
Vert: 1-2=-2		-20, 8-9=-20, 17-18=-20, 16-17=-20, 10-	15=-20				
Concentrated Loads Vert: 14=-58	()	(F) 20=-95(F) 21=-95(F) 22=-95(F) 23=-	601(F) 24=-611(F)	25=	-581(F) 2	26=-380(F) 27=-418(F) 28=-408(F) 29=-4	422(F)
30=-422(F)	31=-417(F)		., .,				
13) Dead + 0.75 Roof Li Uniform Loads (plf)	ve (bal.) + 0.75(0.6 MWFF	RS Wind (Neg. Int) Left): Lumber Increas	e=1.60, Plate Incre	ease	=1.60		
Vert: 1-2=-5		-51, 8-9=-47, 17-18=-20, 16-17=-20, 10-	15=-20				
Concentrated Loads	2, 2-5=2, 6-8=7, 8-9=11, 2 ; (lb)	-18=18, 8-10=5					
						28(F) 28=52(F) 29=52(F) 30=55(F) 31=5	7(F)
Uniform Loads (plf)	ve (bal.) + 0.75(0.6 MWFF	RS Wind (Neg. Int) Right): Lumber Increa	ase=1.60, Plate Inc	reas	e=1.60		
		-59, 8-9=-55, 17-18=-20, 16-17=-20, 10-	15=-20				
Concentrated Loads	11, 2-5=-7, 6-8=-2, 8-9=2, (lb)	2-18=-5, 8-10=-18					
Vert: 14=9(I	F) 12=-31(F) 19=-260(F) 2	20=-49(F) 21=-49(F) 22=-49(F) 23=9(F) 2 RS Wind (Neg. Int) 1st Parallel): Lumber				28(F) 28=52(F) 29=52(F) 30=55(F) 31=5	7(F)
Uniform Loads (plf)	ve (bal.) + 0.75(0.6 MWVFr	(S Wind (Neg. III) ISt Parallel). Lumber	Increase=1.00, Pla	ate ir	iciease=	1.60	
	, , ,	-53, 8-9=-48, 17-18=-20, 16-17=-20, 10-	15=-20				
Concentrated Loads	17, 2-5=-12, 6-8=5, 8-9=9 (lb)	, 2-18=14, 8-10=3					
		20=-49(F) 21=-49(F) 22=-49(F) 23=9(F) 2 RS Wind (Neg. Int) 2nd Parallel): Lumbe				28(F) 28=52(F) 29=52(F) 30=55(F) 31=5	7(F)
Uniform Loads (plf)	ve (bal.) + 0.75(0.0 WWFF	(Neg. III) 210 Falallel). Lumbe	Increase=1.00, Fi	ale i	liciease	=1.00	
	8, 2-5=-53, 5-6=-53, 6-8= 9, 2-5=-5, 6-8=12, 8-9=17	-45, 8-9=-41, 17-18=-20, 16-17=-20, 10- 2-18=-3, 8-10=-14	15=-20				
Concentrated Loads		, 2-103, 0-1014					
		0=-49(F) 21=-49(F) 22=-49(F) 23=9(F) 2 ncrease=1.60, Plate Increase=1.60	24=2(F) 25=1(F) 26	6=-5(F) 27=-2	28(F) 28=52(F) 29=52(F) 30=55(F) 31=5	7(F)
Uniform Loads (plf)	Wind Win. Left. Lumber in	100, 1 late increase - 1.00					
Vert: 1-2=-1 Horz: 2-5=4		-12, 8-9=-12, 17-18=-12, 16-17=-12, 10-	15=-12				
Concentrated Loads	(lb)						
		20=-57(F) 21=-57(F) 22=-57(F) 23=11(F Increase=1.60, Plate Increase=1.60	F) 24=5(F) 25=4(F)	26=	-3(F) 27=	=-30(F) 28=78(F) 29=76(F) 30=79(F) 31	=81(F)
Uniform Loads (plf)							
Vert: 1-2=-1 Horz: 6-8=-/		-16, 8-9=-12, 17-18=-12, 16-17=-12, 10-	15=-12				
Concentrated Loads	(lb)						
		20=-57(F) 21=-57(F) 22=-57(F) 23=11(F hcrease=1.15, Plate Increase=1.15	F) 24=5(F) 25=4(F)	26=	-3(F) 27=	=-30(F) 28=78(F) 29=76(F) 30=79(F) 31=	=81(F)
Uniform Loads (plf)	· · · ·						
Vert: 1-2=-7 Concentrated Loads		-20, 8-9=-20, 17-18=-20, 16-17=-20, 10-	15=-20				
Vert: 14=-86	68(F) 12=-941(F) 19=-260	(F) 20=-240(F) 21=-240(F) 22=-240(F) 2	23=-877(F) 24=-894	4(F) :	25=-869	(F) 26=-882(F)	
	28=-949(F) 29=-977(F) 30 /e (unbalanced): Lumber I	rcrease=1.15, Plate Increase=1.15					
Uniform Loads (plf)		70 8 0 70 17 18 20 16 17 20 10	15 - 20				
Concentrated Loads		-70, 8-9=-70, 17-18=-20, 16-17=-20, 10-	15=-20				
	68(F) 12=-941(F) 19=-260 28=-949(F) 29=-977(F) 30	(F) $20=-240(F) 21=-240(F) 22=-240(F) 2$	23=-877(F) 24=-894	4(F) :	25=-869	(F) 26=-882(F)	
		5 Uninhab. Attic Storage: Lumber Increa	se=1.15, Plate Inci	rease	e=1.15		
Uniform Loads (plf)	7 2 5 - 59 5 6 - 59 6 9 -	-20, 8-9=-20, 17-18=-20, 16-17=-20, 10-	15- 20				
Concentrated Loads		-20, 8-9=-20, 17-18=-20, 16-17=-20, 10-	15=-20				
	00(F) 12=-807(F) 19=-260 28=-814(F) 29=-838(F) 30	(F) $20=-204(F) 21=-204(F) 22=-204(F) 2$	23=-919(F) 24=-935	5(F)	25=-900	(F) 26=-757(F)	
		5 Uninhab. Attic Storage: Lumber Increa	se=1.15, Plate Incr	rease	e=1.15		
Uniform Loads (plf) Vert: 1-2=-2	0 2-5=-20 5-6=-58 6-8=	-58, 8-9=-57, 17-18=-20, 16-17=-20, 10-	15=-20				
Concentrated Loads	(lb)						
	00(F) 12=-807(F) 19=-260 28=-814(F) 29=-838(F) 30	(F) 20=-204(F) 21=-204(F) 22=-204(F) 2 =-838(F) 31=-833(F)	23=-919(F) 24=-935	5(F)	25=-900	(F) 26=-757(F)	
23) Reversal: Dead + 0.		ernal) Left: Lumber Increase=1.60, Plate	Increase=1.60				
Uniform Loads (plf) Vert: 1-2=1	1, 2-5=-3, 5-6=16, 6-8=8	8-9=3, 17-18=-12, 16-17=-12, 10-15=-12	1				
	23, 2-5=-9, 6-8=20, 8-9=1						

Continued on page 4



Job	Truss	Truss Type	Qty	Ply	Lot 103 MN	
210321	E8	Hip Girder	1			145097653
				3		Mar. 0.40:04:44.0004. Date: 4
Wheeler Lumber, W	/averly, KS - 66871,		ID:ell3htjhC3		eb 12 2021 MiTek Industries, Inc. Mon I EczUTUF-eu476Cod8Eqa9meiN97YRn	
LOAD CASE(S) Standa	ard					
Concentrated Loads	s (lb)					
Vert: 14=-5 30=-532(F)		(F) 20=-116(F) 21=-116(F) 22=-116(F) 23=-510(F) 24=-512	(F) 25=-49	7(F) 26=-494(F) 27=-529(F) 28=-514	(F) 29=-531(F)
24) Reversal: Dead + 0.		rnal) Right: Lumber Increase=1.60,	Plate Increase=1.60			
Uniform Loads (plf) Vert: 1-2=3	2-5=8 5-6=16 6-8=-3 8-	9=11, 17-18=-12, 16-17=-12, 10-15=	-12			
Horz: 1-2=-	15, 2-5=-20, 6-8=9, 8-9=23		- 12			
Concentrated Loads		(F) 20116(F) 21116(F) 22116(F) 23510(F) 24512	(F) 2549	7(F) 26=-494(F) 27=-529(F) 28=-514	I/F) 29531/F)
30=-532(F)	31=-526(F)		, , ,	(1) 20= 40	7(1)20= 434(1)21= 323(1)20= 314	(1) 20 - 001(1)
25) Reversal: Dead + 0. Uniform Loads (plf)	6 MWFRS Wind (Neg. Inte	ernal) Left: Lumber Increase=1.60, P	late Increase=1.60			
Vert: 1-2=-1		1, 8-9=-5, 17-18=-20, 16-17=-20, 10	-15=-20			
Horz: 1-2=- Concentrated Loads	3, 2-5=3, 6-8=9, 8-9=15, 2	-18=24, 8-10=6				
	· · /	(F) 20=-108(F) 21=-108(F) 22=-108(F) 23=-502(F) 24=-504	(F) 25=-48	9(F) 26=-486(F) 27=-521(F) 28=-506	ö(F) 29=-523(F)
30=-524(F) 26) Reversal: Dead + 0		ernal) Right: Lumber Increase=1.60,	Plate Increase-1.60			
Uniform Loads (plf)		, .				
	5, 2-5=-11, 5-6=-3, 6-8=-23 15, 2-5=-9, 6-8=-3, 8-9=3,	5, 8-9=-17, 17-18=-20, 16-17=-20, 10 2-186, 8-1024	-15=-20			
Concentrated Loads	s (lb)					
Vert: 14=-4 30=-524(F)	()	(F) 20=-108(F) 21=-108(F) 22=-108(F) 23=-502(F) 24=-504	(F) 25=-48	9(F) 26=-486(F) 27=-521(F) 28=-506	i(F) 29=-523(F)
27) Reversal: Dead + 0.		rnal) 1st Parallel: Lumber Increase=	1.60, Plate Increase=1	60		
Uniform Loads (plf)	1 2-5=16 5-6=6 6-8=6 8	-9=0, 17-18=-12, 16-17=-12, 10-15=	-12			
Horz: 1-2=-	23, 2-5=-28, 6-8=18, 8-9=		12			
Concentrated Loads		(F) 20=-116(F) 21=-116(F) 22=-116(F) 23=-510(F) 24=-512	(F) 25=-49 [.]	7(F) 26=-494(F) 27=-529(F) 28=-514	L(F) 29=-531(F)
30=-532(F)	31=-526(F)		, , ,	. ,		
28) Reversal: Dead + 0. Uniform Loads (plf)	6 MWFRS Wind (Pos. Inte	rnal) 2nd Parallel: Lumber Increase	=1.60, Plate Increase=1	.60		
Vert: 1-2=0		9=11, 17-18=-12, 16-17=-12, 10-15=	-12			
Horz: 1-2=- Concentrated Loads	12, 2-5=-18, 6-8=28, 8-9=2	23, 2-18=-15, 8-10=-7				
Vert: 14=-5	07(F) 12=-510(F) 19=-260	(F) 20=-116(F) 21=-116(F) 22=-116(F) 23=-510(F) 24=-512	(F) 25=-49 ⁻	7(F) 26=-494(F) 27=-529(F) 28=-514	(F) 29=-531(F)
	31=-526(F) 6 MWERS Wind (Neg. Inte	ernal) 1st Parallel: Lumber Increase=	1 60 Plate Increase=1	60		
Uniform Loads (plf)				.00		
	, 2-5=-3, 5-6=-14, 6-8=-14, 23, 2-5=-17, 6-8=6, 8-9=12	8-9=-8, 17-18=-20, 16-17=-20, 10-1 2-18=19 8-10=4	5=-20			
Concentrated Loads	s (lb)					
	99(F) 12=-502(F) 19=-260 31=-518(F)	(F) 20=-108(F) 21=-108(F) 22=-108(F) 23=-502(F) 24=-504	(F) 25=-48	9(F) 26=-486(F) 27=-521(F) 28=-506	i(F) 29=-523(F)
30) Reversal: Dead + 0.		ernal) 2nd Parallel: Lumber Increase	=1.60, Plate Increase=	1.60		
Uniform Loads (plf) Vert: 1-2=-8	3. 2-5=-14. 5-6=-14. 6-8=-3	, 8-9=3, 17-18=-20, 16-17=-20, 10-1	5=-20			
Horz: 1-2=-	12, 2-5=-6, 6-8=17, 8-9=23		0 20			
Concentrated Loads Vert: 14=-4		(F) 20=-108(F) 21=-108(F) 22=-108(F) 23=-502(F) 24=-504	(F) 25=-48	9(F) 26=-486(F)	
27=-521(F)	28=-506(F) 29=-523(F) 30	=-524(F) 31=-518(F)	, , ,	. ,		
31) Reversal: Dead + 0. Uniform Loads (plf)	75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lu	umber Increase=1.60, I	Plate Increa	ISE=1.60	
Vert: 1-2=-5		51, 8-9=-47, 17-18=-20, 16-17=-20,	10-15=-20			
Concentrated Loads	2, 2-5=2, 6-8=7, 8-9=11, 2 s (lb)	-18=18, 8-10=5				
		(F) 20=-186(F) 21=-186(F) 22=-186(F) 23=-875(F) 24=-886	(F) 25=-85	5(F) 26=-742(F)	
	28=-787(F) 29=-810(F) 30 75 Roof Live (bal.) + 0.75(=-810(F) 31=-805(F) 0.6 MWFRS Wind (Neg. Int) Right):	Lumber Increase=1.60	Plate Incre	ease=1.60	
Uniform Loads (plf)						
	+7, 2-5=-51, 5-6=-45, 6-8=- 11, 2-5=-7, 6-8=-2, 8-9=2,	59, 8-9=-55, 17-18=-20, 16-17=-20, 2-18=-5, 8-10=-18	10-15=-20			
Concentrated Loads		(E) 20 196(E) 21 196(E) 22 196(E) 22 07E/E) 24 006	(E) 26 06	E(E) 26 - 742(E)	
	28=-787(F) 29=-810(F) 30	(F) 20=-186(F) 21=-186(F) 22=-186()=-810(F) 31=-805(F)	r) 23=-075(r) 24=-000	(F) 25=-65	5(F) 20=-742(F)	
,	75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Para	allel): Lumber Increase	=1.60, Plate	e	
Increase=1.60 Uniform Loads (plf)						
Vert: 1-2=-4		53, 8-9=-48, 17-18=-20, 16-17=-20,	10-15=-20			
Horz: 1-2=- Concentrated Loads	17, 2-5=-12, 6-8=5, 8-9=9, s (lb)	2-10=14, 0-10=3				
Vert: 14=-8		(F) 20=-186(F) 21=-186(F) 22=-186(F) 23=-875(F) 24=-886	(F) 25=-85	5(F) 26=-742(F)	
27=-010(F)	20-101(F) 20=010(F) 30	- 010(1) 01- - 000(F)				

Continued on page 5



Job	Truss	Truss Type	Qty	Ply	Lot 103 MN
					145097653
210321	E8	Hip Girder	1	3	Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,		8		12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:44 2021 Page 5

Wheeler Lumber, Waverly, KS - 66871,

ID:ell3htjhC3ucpFh1ifG0EczUTUF-eu476Cod8Eqa9meiN97YRmtCHDZAqXXiTJNpSMzd_Av

LOAD CASE(S) Standard

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-48, 2-5=-53, 5-6=-53, 6-8=-45, 8-9=-41, 17-18=-20, 16-17=-20, 10-15=-20

Horz: 1-2=-9, 2-5=-5, 6-8=12, 8-9=17, 2-18=-3, 8-10=-14

Concentrated Loads (lb)

Vert: 14=-862(F) 12=-779(F) 19=-260(F) 20=-186(F) 21=-186(F) 22=-186(F) 23=-875(F) 24=-886(F) 25=-855(F) 26=-742(F) 27=-810(F) 28=-787(F) 29=-810(F) 29=-810(F) 20=-810(F) 20=-8 30=-810(F) 31=-805(F)

35) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-12, 2-5=-16, 5-6=-12, 6-8=-12, 8-9=-12, 17-18=-12, 16-17=-12, 10-15=-12

Horz: 2-5=4, 2-18=16 Concentrated Loads (lb)

Vert: 14--444(F) 12=-449(F) 19=-260(F) 20=-110(F) 21=-110(F) 22=-110(F) 23=-445(F) 24=-447(F) 25=-435(F) 26=-432(F) 27=-463(F) 28=-453(F) 29=-464(F)

30=-464(F) 31=-459(F)

36) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

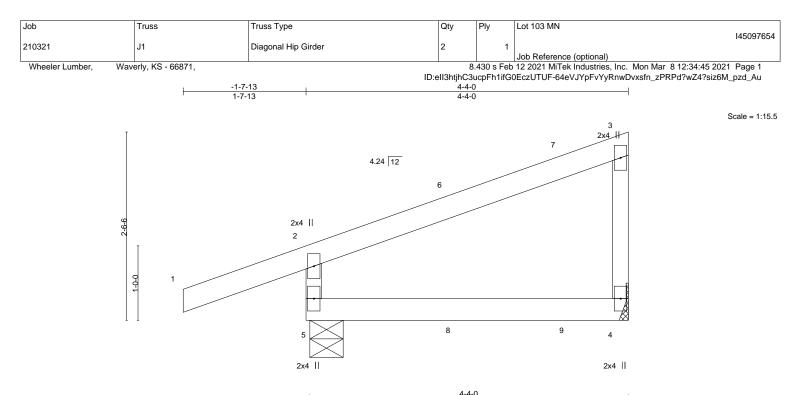
Vert: 1-2=-12, 2-5=-12, 5-6=-12, 6-8=-16, 8-9=-12, 17-18=-12, 16-17=-12, 10-15=-12

Horz: 6-8=-4, 8-10=-16

Concentrated Loads (lb)

Vert: 14=-444(F) 12=-449(F) 19=-260(F) 20=-110(F) 21=-110(F) 22=-110(F) 23=-445(F) 24=-447(F) 25=-432(F) 26=-432(F) 27=-463(F) 28=-453(F) 29=-464(F) 20=-100(F) 21=-100(F) 22=-100(F) 22=-1 30=-464(F) 31=-459(F)





			4-3-6	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP MT20 197/144
TCLL 25.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.01 4-5 >999 360	
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.03 4-5 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 4 n/a n/a	Weight: 14 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

- 2x3 SPF No.2
- REACTIONS. 5=0-5-6, 4=Mechanical (size) Max Horz 5=107(LC 24) Max Uplift 5=-124(LC 4), 4=-64(LC 5) Max Grav 5=338(LC 1), 4=181(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-298/146

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=124.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

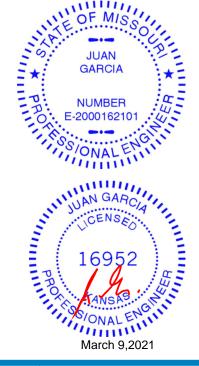
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 19 lb up at 2-0-9, and 86 lb down and 62 lb up at 3-6-14 on top chord, and 11 lb down and 14 lb up at 2-0-9, and 21 lb down at 3-6-14 on bottom chord. The design/selection of such connection 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=-14(B) 8=2(F) 9=-13(B)

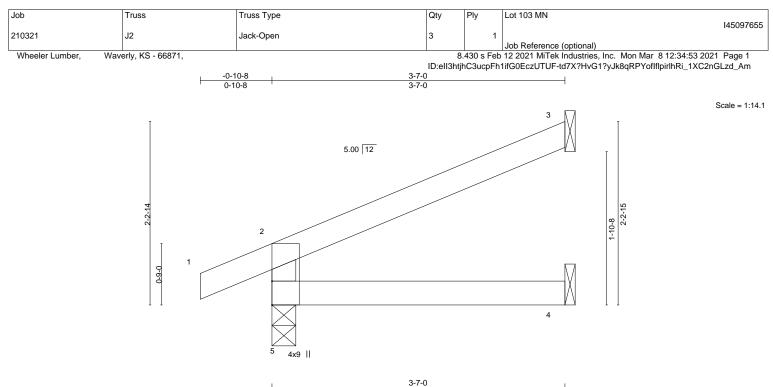


Structural wood sheathing directly applied or 4-4-0 oc purlins,

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

except end verticals.





				3-7-0	
LOADIN TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.15	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.01 4-5 >999 360 MT20 197/144	
TCDL BCLL	10.0 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.10 WB 0.00	Vert(CT) -0.01 4-5 >999 240 Horz(CT) 0.01 3 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240 Weight: 10 lb FT = 10%	

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals.

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=65(LC 8)

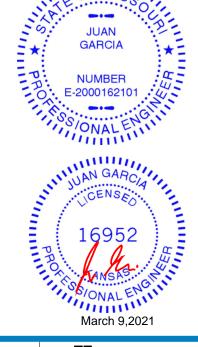
Max Uplift 5=-34(LC 8), 3=-54(LC 8)

Max Grav 5=234(LC 1), 3=103(LC 1), 4=63(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) 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.

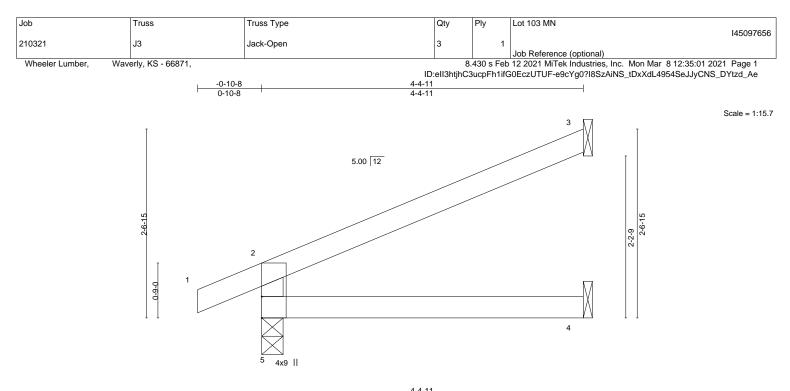


1117

11 MIS

0





			4-4-11 4-4-11					
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) -0.0	1 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.0	3 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.0	1 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	2 4-5	>999	240	Weight: 12 lb	FT = 10%

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 4-4-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

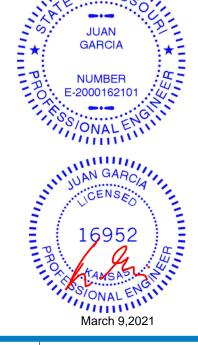
REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=79(LC 8)

Max Uplift 5=-37(LC 8), 3=-67(LC 8) Max Grav 5=268(LC 1), 3=130(LC 1), 4=79(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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Job	Truss	Truss Type	Qty	Ply	Lot 103 MN
210321	J4	Jack-Open	3	1	145097
					Job Reference (optional)
Wheeler Lumber,	Waverly, KS - 66871,	-0-10-8 0-10-8	ID:eII3htji 1-0-9 1-0-9	8.430 s Fel nC3ucpFh1if	b 12 2021 MiTek Industries, Inc. Mon Mar 8 12:35:06 2021 Page 1 G0EczUTUF-?7PRjj3Qz?bTo8KxgmXiKPn2o5Bz_aCxXkizD5zd_AZ
				3	Scale = 1
		8.00 12 2x4		Δ	
		2	/ /		
		1-8-6			မ ကို
					8 8 9
		0-0-1		$\overline{\Lambda}$	
				- X	
		5	\times	V	1 1
		K	$ \rightarrow $		

1-0-9 1-0-9

4

LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.07 BC 0.02	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 5 >999 240 Vert(CT) -0.00 5 >999 180	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.00 3 n/a n/a	Weight: 4 lb FT = 10%

2x4 ||

LUMBER-

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

2x4 SPF No.2

BRACING-TOP CHORD

BOT CHORD

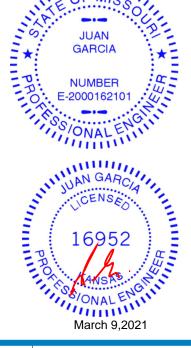
Structural wood sheathing directly applied or 1-0-9 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=42(LC 5) Max Uplift 5=-7(LC 8), 3=-21(LC 8), 4=-10(LC 8) Max Grav 5=146(LC 1), 3=13(LC 6), 4=19(LC 6)

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

NOTES-

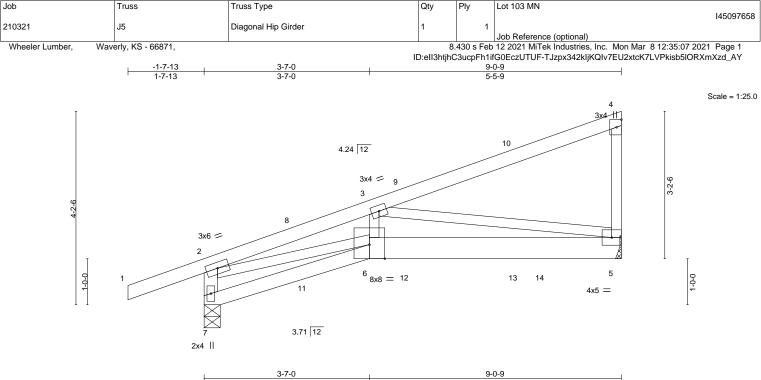
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



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			3-7-0				5-5-9			
LOADING (psf) TCLL 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.46	DEFL. Vert(LL)	-0.05	(loc) 5-6	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL Rep Stress Incr Code IRC2018/TPI	1.15 NO 2014	BC 0.56 WB 0.76 Matrix-S	Vert(CT) Horz(CT) Wind(LL)	-0.09 0.03 0.05	5-6 5 5-6	>999 n/a >999	240 n/a 240	Weight: 37 lb	FT = 10%

- 2x4 SPF No.2 TOP CHORD 2x4 SPF No.2 *Except* BOT CHORD 5-6: 2x6 SPF No.2 WEBS 2x3 SPF No.2 *Except*
- BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals.

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

REACTIONS. (size) 7=0-4-3, 5=Mechanical Max Horz 7=165(LC 5) Max Uplift 7=-198(LC 4), 5=-217(LC 8) Max Grav 7=593(LC 1), 5=625(LC 1)

2-7: 2x4 SPF No.2

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

- TOP CHORD 2-7=-553/219, 2-3=-1213/422
- BOT CHORD 5-6=-487/1091
- WEBS 2-6=-375/1092, 3-6=-44/273, 3-5=-1065/459

NOTES

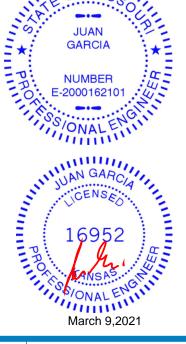
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to airder(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) except (jt=lb) 7=198, 5=217
- 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 20 lb up at 2-0-9, 107 lb down and 73 lb up at 3-6-14, and 80 lb down and 58 lb up at 4-4-14, and 105 lb down and 87 lb up at 6-9-3 on top chord, and 13 lb down and 16 lb up at 2-0-9, 15 lb down at 3-7-4, 15 lb down and 16 lb up at 4-4-14, and 28 lb down at 6-9-3, and 259 lb down and 107 lb up at 7-4-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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 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



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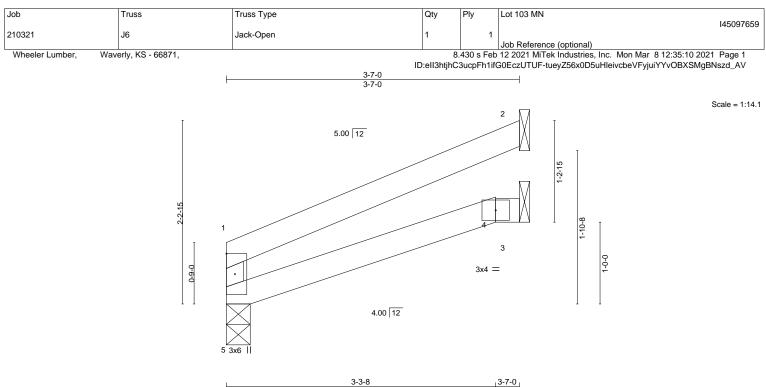
Job	Truss	Truss Type	Qty	Ply	Lot 103 MN
					145097658
210321	J5	Diagonal Hip Girder	1	1	
		.			Job Reference (optional)
Wheeler Lumber, Wave	rly, KS - 66871,		8	430 s Feb	12 2021 MiTek Industries, Inc. Mon Mar 8 12:35:07 2021 Page 2

ID:ell3htjhC3ucpFh1ifG0EczUTUF-TJzpx342kljKQlv7EU2xtcK7LVPkisb5lORXmXzd_AY

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20 Concentrated Loads (lb) Vert: 6=-7(B) 10=-23(F) 11=2(F) 12=-0(F) 13=-13(F) 14=-259(B)





				3-3-8		0-3-8		
LOADIN	G (psf)	SPACING- 2-0	-0 CSI.	DEFL.	in (loc) l/defl	L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.1	15 TC 0.19	Vert(LL)	-0.01 4-5	5 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL 1.1	15 BC 0.11	Vert(CT)	-0.02 4-5	5 >999	240	
BCLL	0.0 *	Rep Stress Incr YE	S WB 0.00	Horz(CT)	0.01	2 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014	4 Matrix-R	Wind(LL)	0.01 4-5	5 >999	240	Weight: 9 lb FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

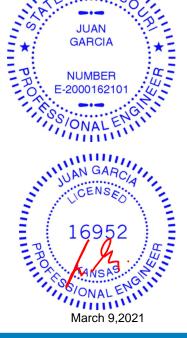
REACTIONS. (size) 5=0-3-8, 2=Mechanical, 3=Mechanical Max Horz 5=50(LC 8) Max Uplift 5=-8(LC 8), 2=-59(LC 8)

Max Grav 5=154(LC 1), 2=113(LC 1), 3=66(LC 3)

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

NOTES-

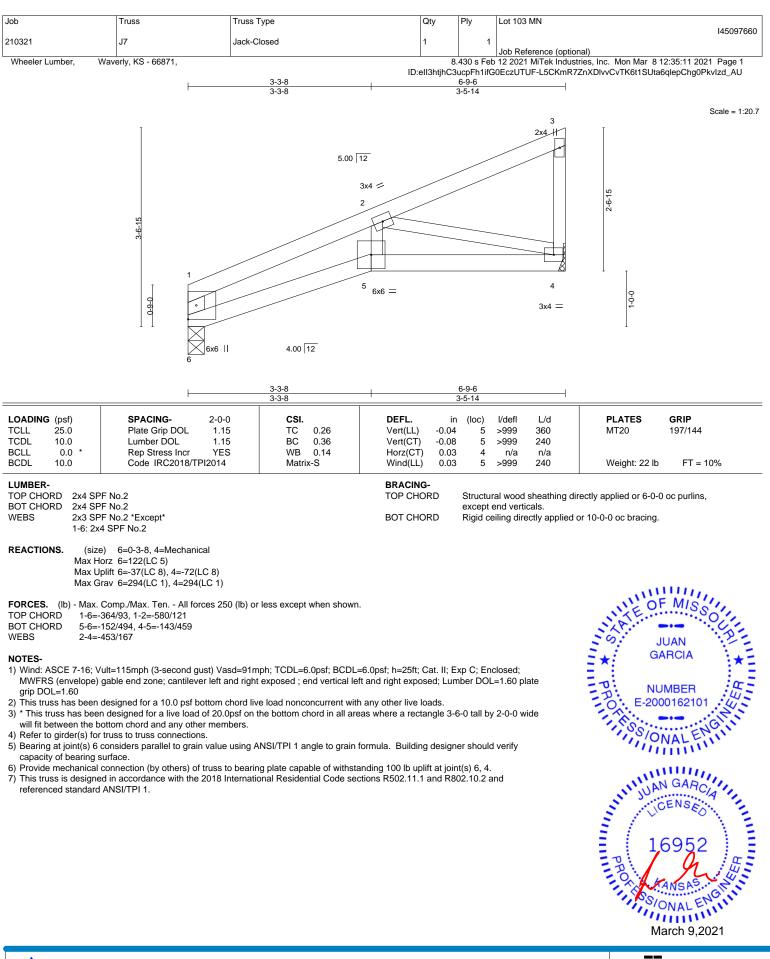
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



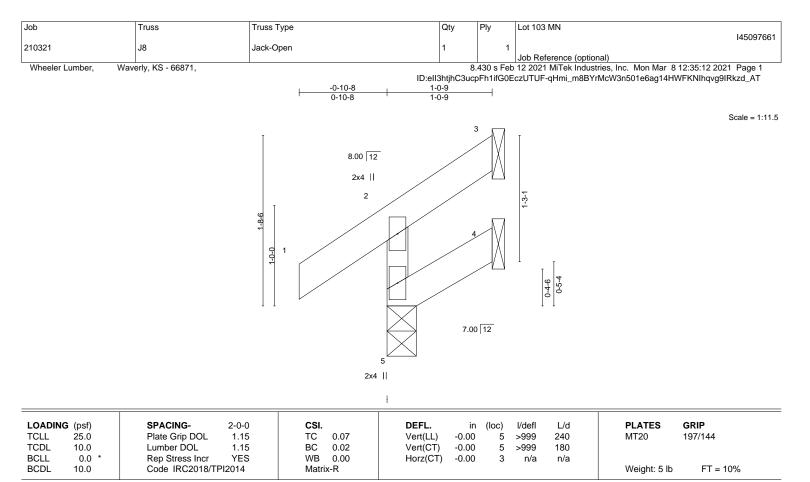
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16023 Swingley Ridge Rd Chesterfield, MO 63017







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

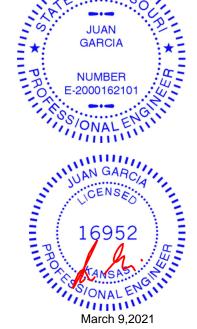
WEBS 2x3 SPF No.2

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=44(LC 5) Max Uplift 5=-4(LC 8), 3=-23(LC 8), 4=-11(LC 8) Max Grav 5=146(LC 1), 3=15(LC 6), 4=21(LC 6)

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) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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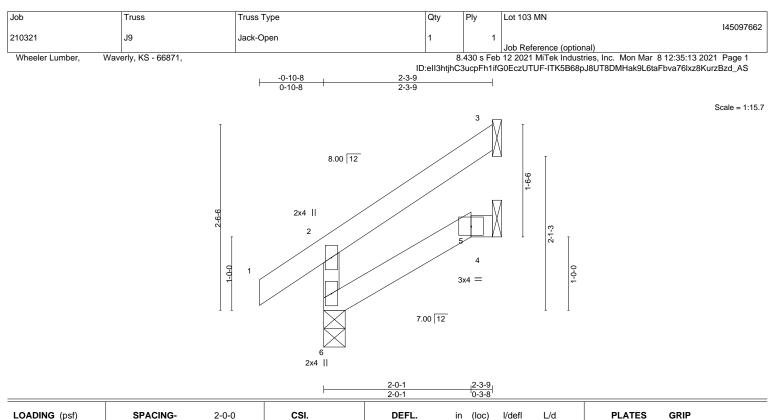
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Structural wood sheathing directly applied or 1-0-9 oc purlins,

Rigid ceiling directly applied or 6-0-0 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 0.09	Vert(LL) -0.0	0 5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.0	0 5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.0	1 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	0 5-6	>999	240	Weight: 8 lb	FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-3-9 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=69(LC 8) Max Uplift 3=-55(LC 8), 4=-3(LC 8)

Max Grav 6=180(LC 1), 3=69(LC 15), 4=41(LC 3)

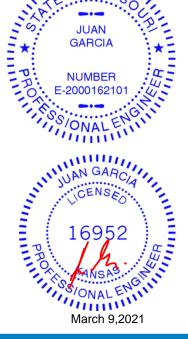
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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.

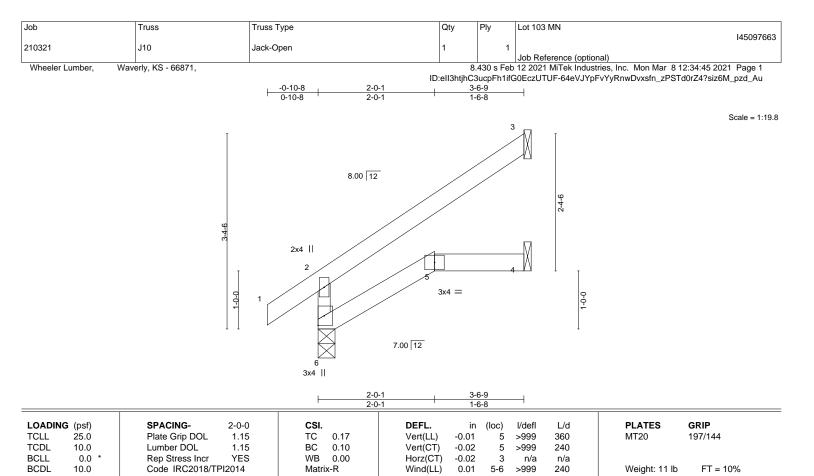
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to 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, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

BRACING-

BOT CHORD

Structural wood sheathing directly applied or 3-6-9 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=103(LC 8)

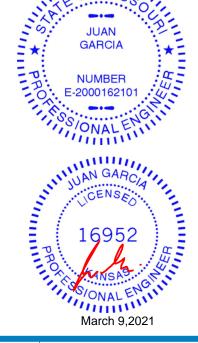
Max Horz 6=103(LC 8) Max Uplift 3=-82(LC 8)

Max Grav 6=231(LC 1), 3=115(LC 15), 4=65(LC 3)

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

NOTES-

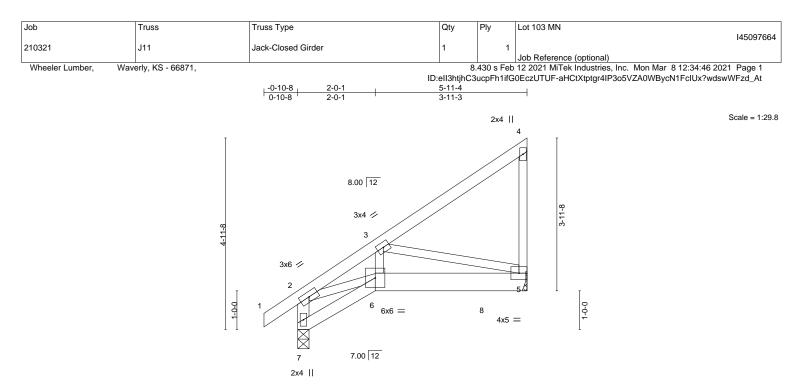
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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) 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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		2-0-1 2-0-1	5-11-4 3-11-3	
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 0.22	Vert(LL) -0.02 5-6 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.04 5-6 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.21	Horz(CT) 0.01 5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.02 5-6 >999 240	Weight: 28 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

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

 BOT CHORD
 2x4 SPF No.2 *Except*

 5-6: 2x6 SPF No.2
- 5-6: 2x6 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-7: 2x4 SPF No.2
- REACTIONS. (size) 7=0-3-8, 5=Mechanical Max Horz 7=176(LC 5) Max Uplift 7=-72(LC 8), 5=-277(LC 8) Max Grav 7=436(LC 1), 5=751(LC 1)

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

- TOP CHORD 2-7=-417/143, 2-3=-692/226
- BOT CHORD 5-6=-243/580

WEBS 2-6=-146/556, 3-6=-130/298, 3-5=-583/285

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 except (jt=lb) 5=277.
- 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) 603 lb down and 238 lb up at 4-10-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20 Concentrated Loads (lb) Vert: 8=-603(B)

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

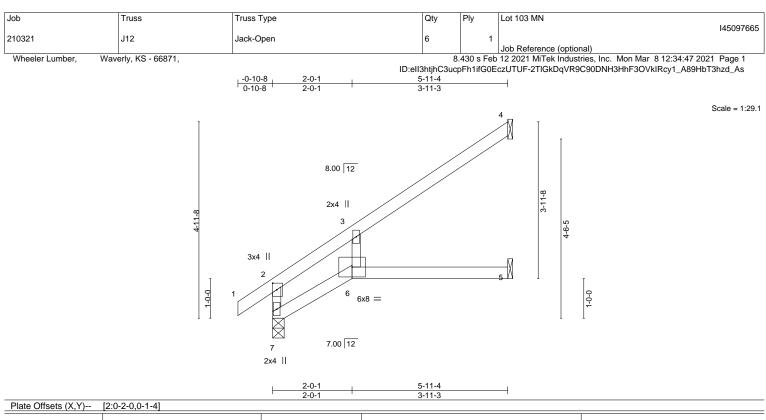


Structural wood sheathing directly applied or 5-11-4 oc purlins,

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 0.41	Vert(LL) -0	.08 5-6	>857 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0	.15 5-6	>462 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0	.08 5	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0	.09 5-6	>739 240	Weight: 18 lb FT = 10%

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

BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 7=118(LC 8) Max Uplift 4=-64(LC 8), 5=-1(LC 8)

Max Grav 7=334(LC 1), 4=170(LC 13), 5=103(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.

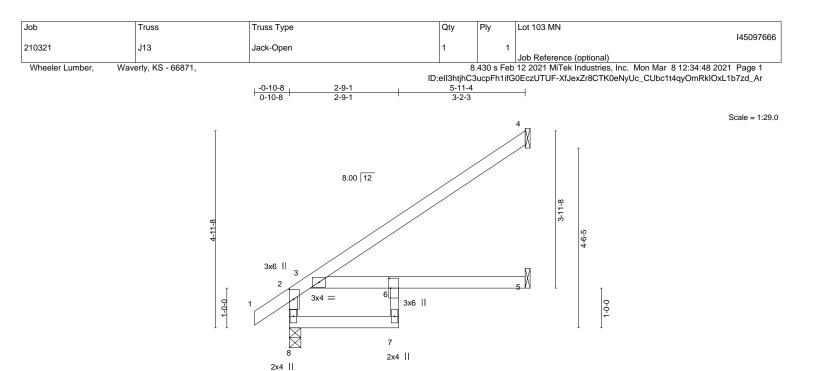
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 7) This 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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5-11-4

3-2-3

in (loc) l/defl

L/d

LUMBER TOP CH		BRACING- TOP CHORD	Structu	iral wood	sheathing	directly applied or 5-11-	4 oc purlins,		
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) 0.05 Wind(LL) 0.06		n/a >999	n/a 240	Weight: 20 lb	FT = 10%
TCDL	10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) -0.14		>506	240		
TCLL	25.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.06	5-6	>999	360	MT20	197/144

DEFL.

2-9-1 2-9-1

CSI.

LL T ۱S, BOT CHORD 2x4 SPF No.2 *Except* except end verticals. 6-7: 2x3 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x3 SPF No.2

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 8=119(LC 8) Max Uplift 4=-66(LC 8)

[2:0-3-0,0-1-4], [6:0-3-0,0-0-8] SPACING-

Max Grav 8=366(LC 1), 4=174(LC 13), 5=131(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-343/0

NOTES-

Plate Offsets (X,Y)--

LOADING (psf)

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.

2-0-0

3Ì * 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.

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.

PLATES

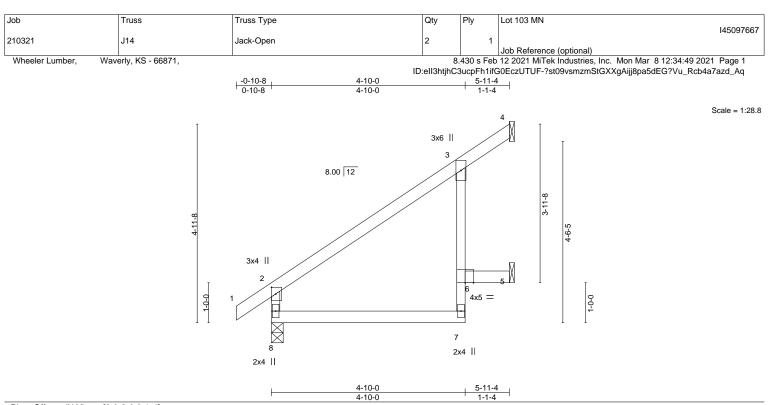
GRIP

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OADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL)	-0.03	6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(CT)	-0.06	7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.03	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.03	6	>999	240	Weight: 20 lb	FT = 10%

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

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=119(LC 8) Max Uplift 4=-10(LC 8), 5=-53(LC 8)

Max Grav 8=334(LC 1), 4=92(LC 13), 5=172(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-290/11

NOTES-

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

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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

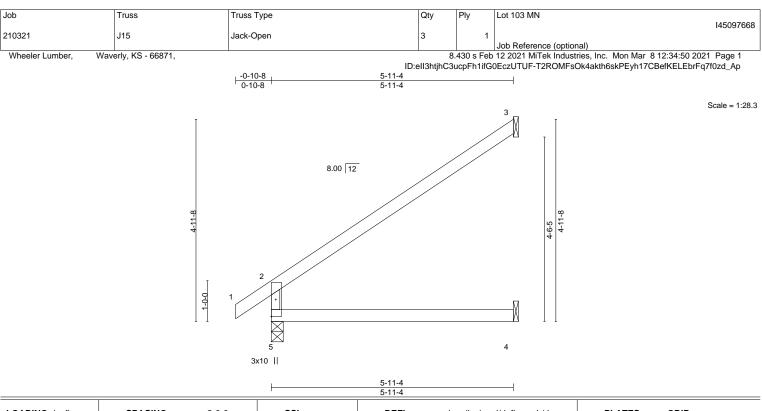
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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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	0.56	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.12	4-5	>569	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.06	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	912014	Matri	x-R	Wind(LL)	0.05	4-5	>999	240	Weight: 17 lb	FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 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=119(LC 8) Max Uplift 3=-80(LC 8) Max Grav 5=334(LC 1), 3=191(LC 13), 4=111(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-288/25

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.

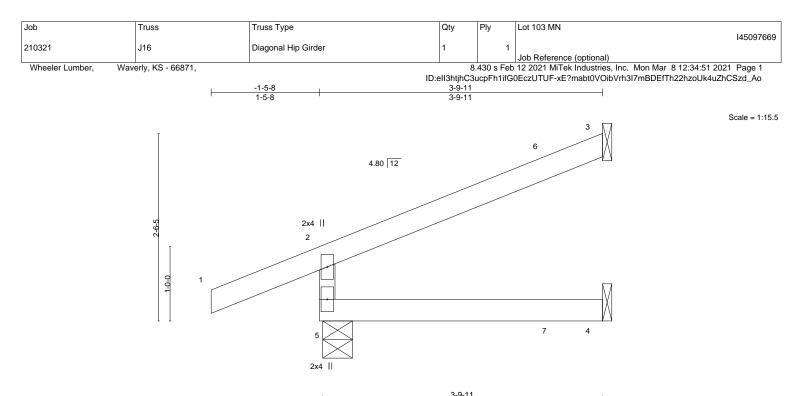
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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		3-9-3		
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.19	DEFL. in (loc) //defl L/d PLATES GRIP Vert(LL) -0.01 4-5 >999 360 MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.02 4-5 >999 240	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.01 3 n/a n/a Wind(LL) 0.01 4-5 >999 240 Weight: 11 lb FT = 10%	

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

2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-9-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 5=0-4-13, 3=Mechanical, 4=Mechanical (size) Max Horz 5=71(LC 8) Max Uplift 5=-64(LC 4), 3=-73(LC 8) Max Grav 5=298(LC 1), 3=105(LC 1), 4=73(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-260/95

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.

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

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 57 lb up at 3-2-0 on top chord, and 15 lb down at 3-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

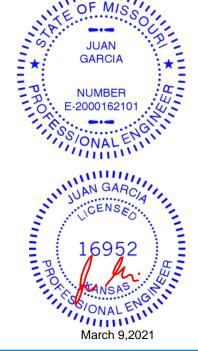
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

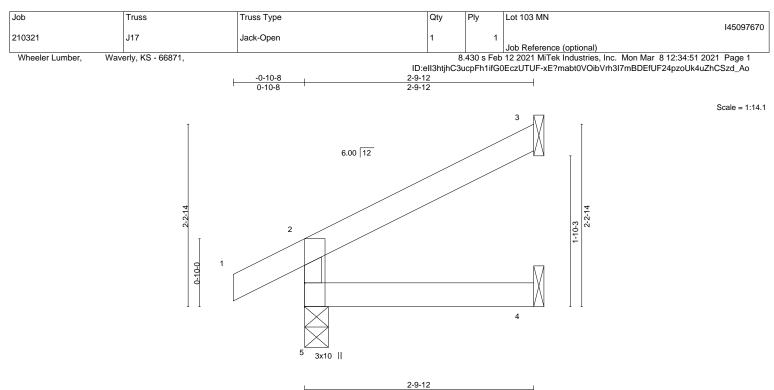
Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb)

Vert: 6=-1(F) 7=-5(F)



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2-9-12									
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/de	fl L/d	PLATES GRIP			
TCLL	25.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) -0.00 4-5 >99	9 360	MT20 197/144			
TCDL	10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.01 4-5 >99	9 240				
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 >99	9 240	Weight: 8 lb FT = 10%			

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

BOT CHORD

Structural wood sheathing directly applied or 2-9-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

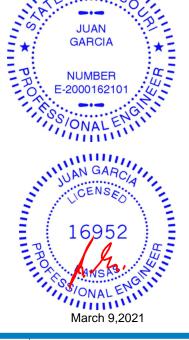
Max Horz 5=63(LC 8)

Max Uplift 5=-22(LC 8), 3=-50(LC 8) Max Grav 5=200(LC 1), 3=79(LC 1), 4=50(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.

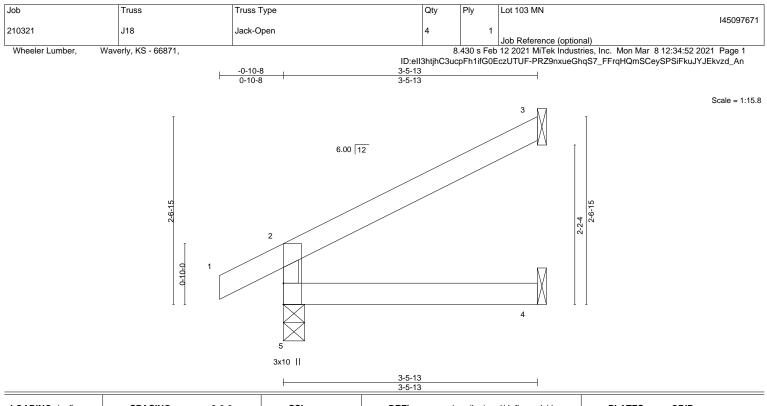


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LOADING (psi	f)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL 10.0	0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	4-5	>999	240		
BCLL 0.	0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	0	Code IRC2018/TPI	2014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 10 lb	FT = 10%

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

BOT CHORD

Structural wood sheathing directly applied or 3-5-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

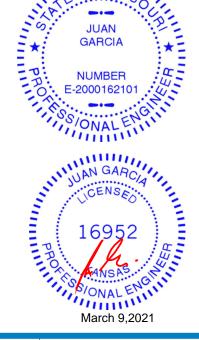
REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=77(LC 8)

Max Uplift 5=-24(LC 8), 3=-62(LC 8) Max Grav 5=228(LC 1), 3=102(LC 1), 4=63(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.

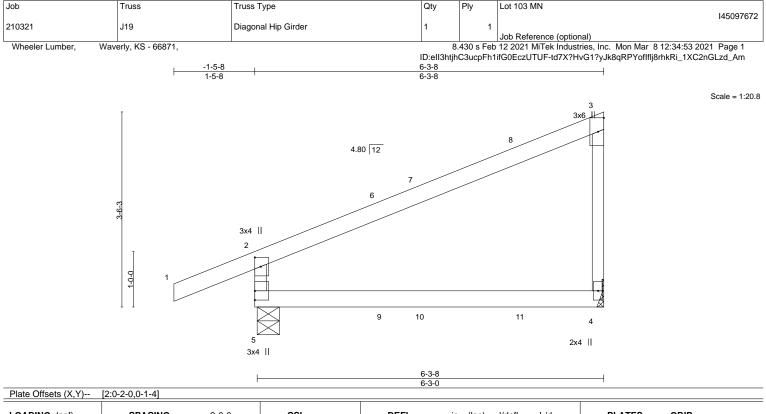


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LOADING (psf) SPA	ACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate	e Grip DOL	1.15	TC	0.57	Vert(LL)	-0.06	4-5	>999	360	MT20	197/144
TCDL 10.0	Lum	nber DOL	1.15	BC	0.35	Vert(CT)	-0.12	4-5	>600	240		
BCLL 0.0)* Rep	Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Cod	le IRC2018/TPI	2014	Matrix	k-R	Wind(LL)	0.04	4-5	>999	240	Weight: 20 lb	FT = 10%
LUMBER-						BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 5=0-4-13, 4=Mechanical Max Horz 5=149(LC 5) Max Uplift 5=-103(LC 4), 4=-107(LC 5)

Max Grav 5=398(LC 1), 4=263(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-347/135

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.

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=103 4=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) 73 lb down and 32 lb up at 2-4-7, and 87 lb down and 57 lb up at 3-0-12, and 93 lb down and 72 lb up at 4-10-7 on top chord, and 9 lb down and 14 lb up at 2-4-7, and 8 lb down at 3-0-12, and 19 lb down and 16 lb up at 4-10-7 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: 9=2(F) 10=-2(B) 11=-4(F)



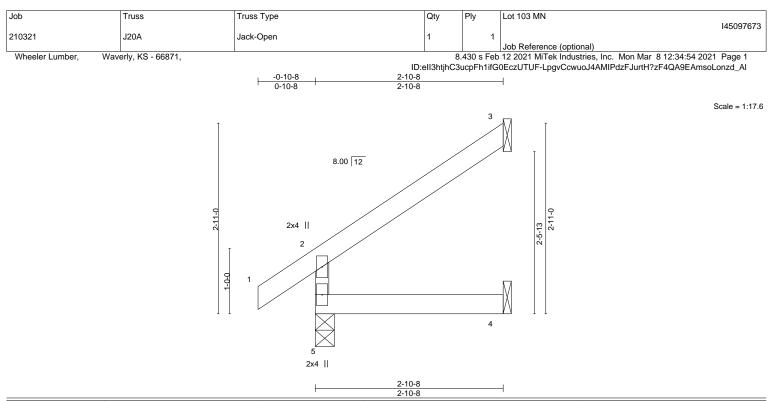
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Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





				1		2.00					-	
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	тс	0.12	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	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/TPI2	2014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%
							2.00	. •			i olgili o lo	1. 10/0

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

BOT CHORD

Structural wood sheathing directly applied or 2-10-8 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=86(LC 8)

Max Uplift 5=-2(LC 8), 3=-66(LC 8) Max Grav 5=203(LC 1), 3=90(LC 15), 4=52(LC 3)

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

NOTES-

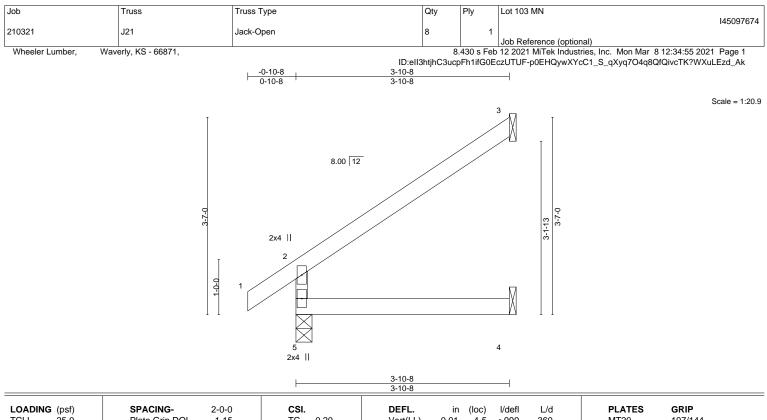
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 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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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	-0.02	4-5	>999	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/TPI2014	Matrix-R	Wind(LL)	0.01	4-5	>999	240	Weight: 12 lb	FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 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=80(LC 8)

Max Horz 5=80(LC 8) Max Uplift 3=-54(LC 8)

Max Grav 5=244(LC 1), 3=122(LC 13), 4=71(LC 3)

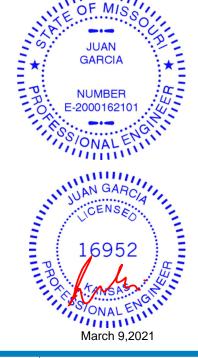
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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.

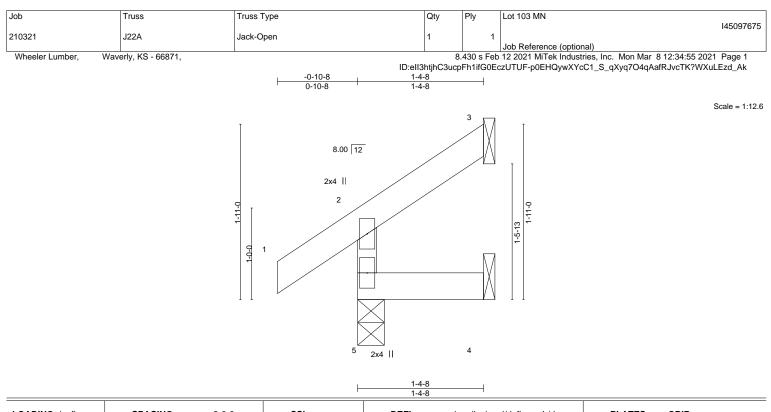
4) Refer to girder(s) for truss to truss connections.

- 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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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	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R						Weight: 5 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-4-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

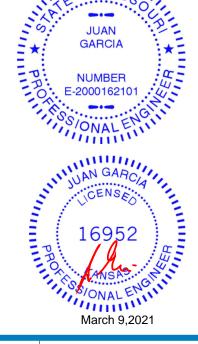
REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=47(LC 5) Max Uplift 5=-5(LC 8), 3=-31(LC 8), 4=-7(LC 8)

Max Grav 5=152(LC 1), 3=29(LC 15), 4=23(LC 3)

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

NOTES-

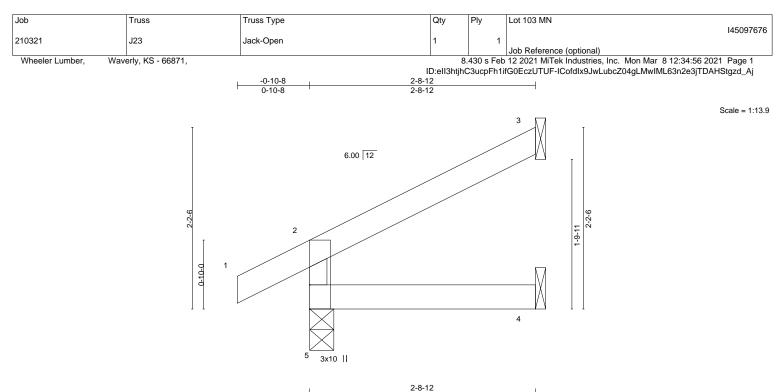
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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, 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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			2-8-12			
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 0.08	Vert(LL) -0.00	4-5	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.00	4-5	>999 240	WIZO 137/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	4-5	>999 240	Weight: 8 lb FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-8-12 oc purlins, except end verticals.

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

REACTIONS.

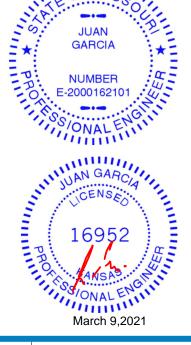
5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=61(LC 8)

Max Uplift 5=-22(LC 8), 3=-48(LC 8) Max Grav 5=197(LC 1), 3=76(LC 1), 4=49(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.

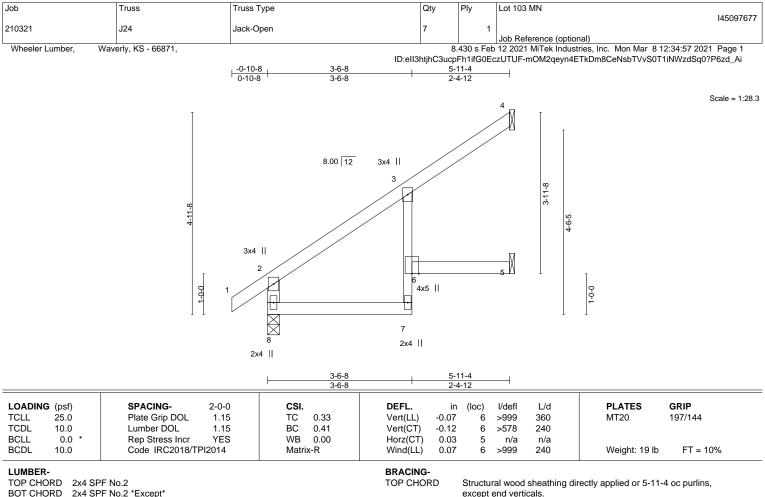


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BOT CHORD

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

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2 *Except*

 3-7: 2x3 SPF No.2

 WEBS
 2x4 SPF No.2

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

Max Horz 8=118(LC 8) Max Uplift 4=-49(LC 8), 5=-14(LC 8)

Max Grav 8=336(LC 1), 4=156(LC 13), 5=106(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-304/7

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.

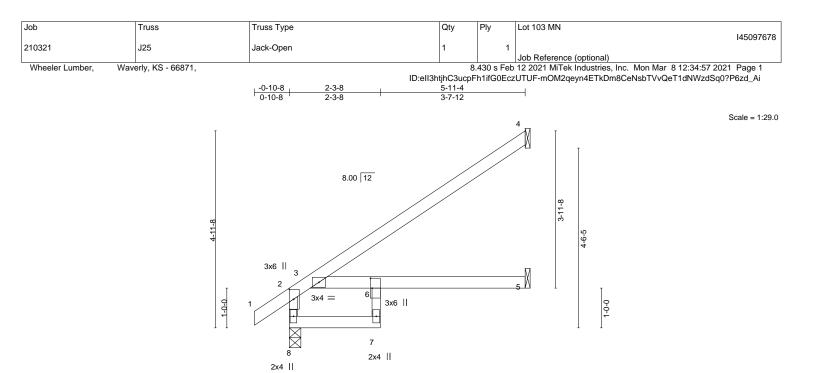
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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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 0.48	Vert(LL)	-0.06	5-6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT)	-0.13	5-6	>519	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.06	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.07	5-6	>999	240	Weight: 19 lb	FT = 10%

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

Plate Offsets (X Y)-- [2:0-3-0 0-1-4] [6:0-3-0 0-0-8]

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=119(LC 8) Max Uplift 4=-67(LC 8)

Max Grav 8=360(LC 1), 4=176(LC 13), 5=122(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-342/0

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.

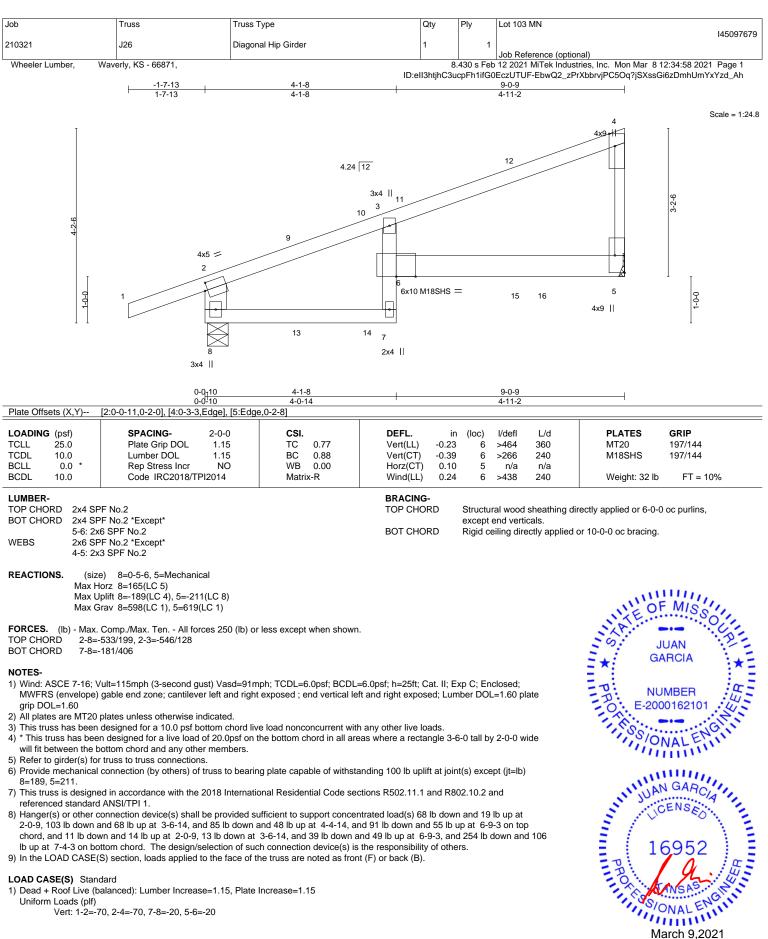


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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 7-8=-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 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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

March 9.2021

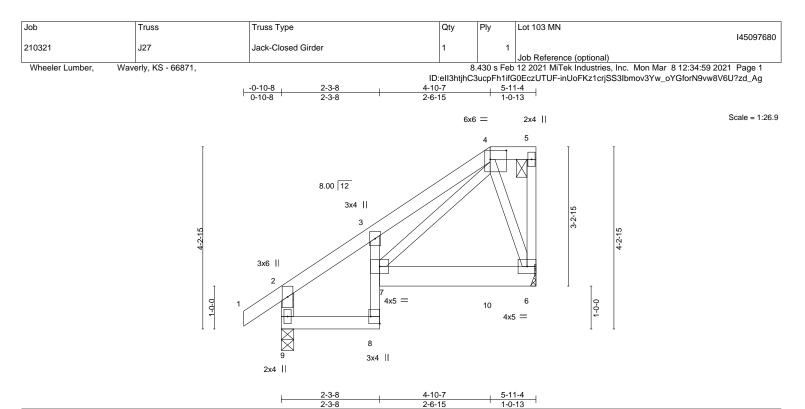
[Job	Truss	Truss Type	Qty	Ply	Lot 103 MN
						145097679
	210321	J26	Diagonal Hip Girder	1	1	
						Job Reference (optional)
	Wheeler Lumber, Wave	erly, KS - 66871,		8.	430 s Feb	12 2021 MiTek Industries, Inc. Mon Mar 8 12:34:58 2021 Page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 11=-4(B) 12=-9(B) 13=2(B) 14=-6(F) 15=-31(B) 16=-254(F)





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 0.32	Vert(LL) -0.03	6-7	>999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.06	6-7	>999	240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.15	Horz(CT) 0.05	6	n/a	n/a	
3CDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.04	6-7	>999	240	Weight: 28 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-		
	21/	50

- TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2 *Except*

 3-8: 2x3 SPF No.2, 6-7: 2x6 SPF No.2

 WEBS
 2x3 SPF No.2 *Except*
 - 2x3 SPF No.2 *Exce 2-9: 2x4 SPF No.2
- 2-3. 274 511 10.2

REACTIONS. (size) 9=0-3-8, 6=Mechanical Max Horz 9=150(LC 5) Max Uplift 9=-80(LC 8), 6=-252(LC 5) Max Grav 9=435(LC 1), 6=746(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-9=-415/109, 2-3=-361/76, 3-4=-494/209

WEBS 4-7=-206/436, 4-6=-262/102

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 orip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 6=252.
- 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) 597 lb down and 232 lb up at 4-10-7 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).
- TO) In the LOAD CASE(3) section, loads applied to the face of the truss are noted as from (F) of 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, 4-5=-70, 8-9=-20, 6-7=-20 Concentrated Loads (lb)

Vert: 10=-597(F)

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

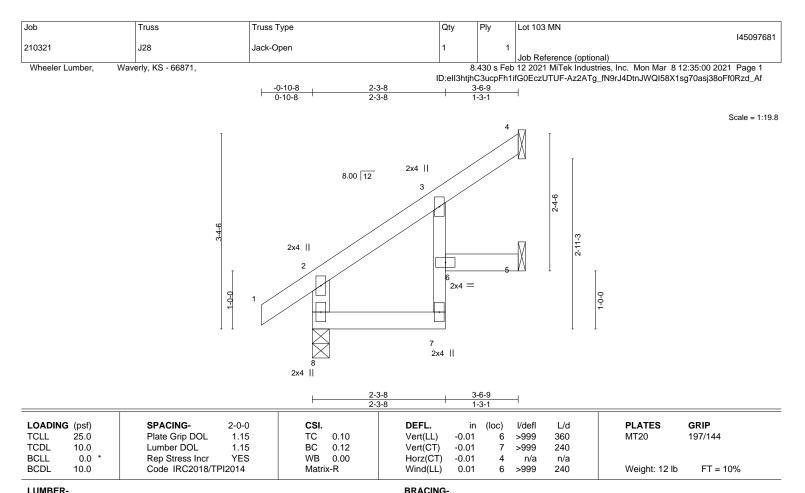


Structural wood sheathing directly applied or 5-11-4 oc purlins,

except end verticals, and 2-0-0 oc purlins: 4-5.

Rigid ceiling directly applied or 10-0-0 oc 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=104(LC 8) Max Uplift 8=-2(LC 8), 4=-48(LC 8), 5=-30(LC 8)

Max Grav 8=233(LC 1), 4=90(LC 15), 5=64(LC 15)

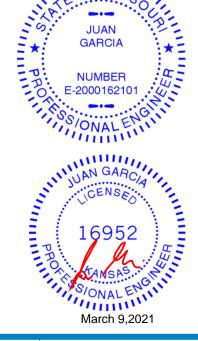
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

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



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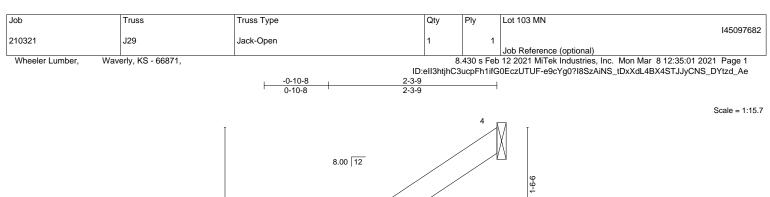
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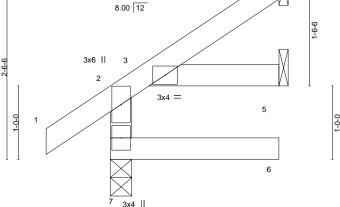
Structural wood sheathing directly applied or 3-6-9 oc purlins,

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

except end verticals.







			2-3-9		1			
LOADING (psf)	SPACING- 2-0-0	CSI. TC 0.16	DEFL. ir Vert(LL) -0.05	()	l/defl	L/d	PLATES MT20	GRIP 197/144
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	BC 0.17	Vert(CT) -0.09	6	>552 >278	360 240	IMIT20	197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) 0.02 Wind(LL) 0.03		n/a >933	n/a 240	Weight: 10 lb	FT = 10%

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

BRACING-TOP CHORD

BOT CHORD

2 2 0

Structural wood sheathing directly applied or 2-3-9 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 7=70(LC 8) Max Uplift 4=-39(LC 8), 5=-3(LC 8) Max Grav 7=197(LC 1), 4=71(LC 15), 5=60(LC 3)

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

NOTES-

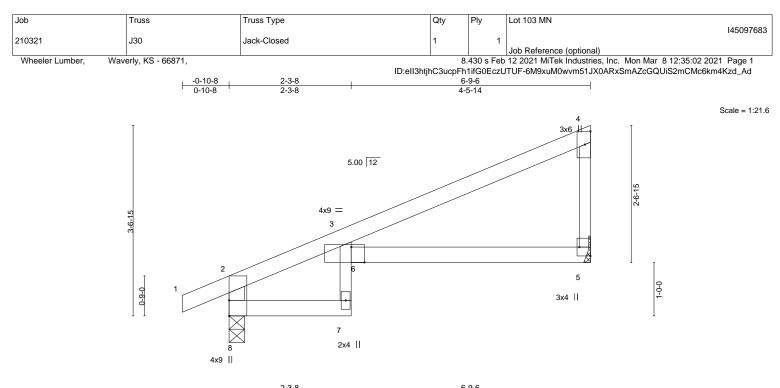
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0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



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				2-3-8			4-5-	-			_	
Plate Offs	ets (X,Y)	[3:0-3-0,0-3-7], [5:Edge,0	-2-8]									
	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.54	Vert(LL)	-0.11	` 5-6	>686	360	MT20	197/144
FCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.21	5-6	>380	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.10	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	ĸ-R	Wind(LL)	0.12	5-6	>670	240	Weight: 20 lb	FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* 3-7: 2x3 SPF No.2 *Except* WEBS 2x4 SPF No.2 *Except* 4-5: 2x3 SPF No.2 BRACING-TOP CHORD Structural except en BOT CHORD Rigid ceilin

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) 8=0-3-8, 5=Mechanical Max Horz 8=131(LC 5)
 - Max Uplift 8=-62(LC 8), 5=-71(LC 8) Max Grav 8=371(LC 1), 5=288(LC 1)

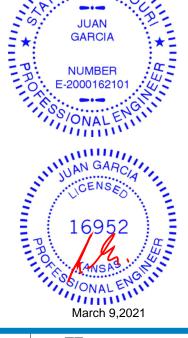
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-359/86, 2-3=-284/36

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.

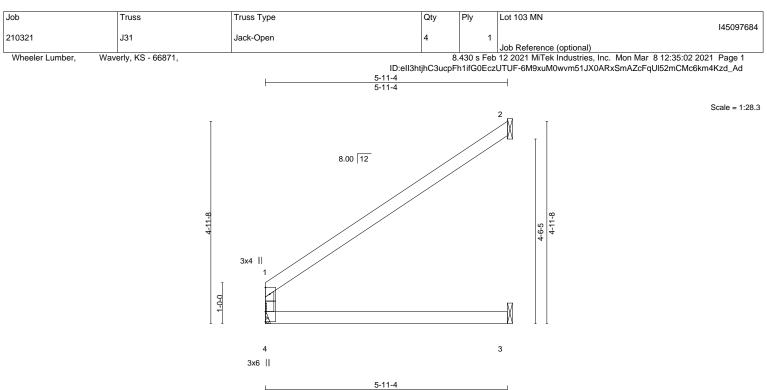
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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						5-11-4						
LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.58	Vert(LL)	-0.05	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.12	3-4	>562	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	k-R	Wind(LL)	0.05	3-4	>999	240	Weight: 16 lb	FT = 10%

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x3 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. 4=Mechanical, 2=Mechanical, 3=Mechanical (size) Max Horz 4=104(LC 8)

Max Uplift 2=-80(LC 8)

Max Grav 4=260(LC 1), 2=194(LC 13), 3=112(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); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.

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

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

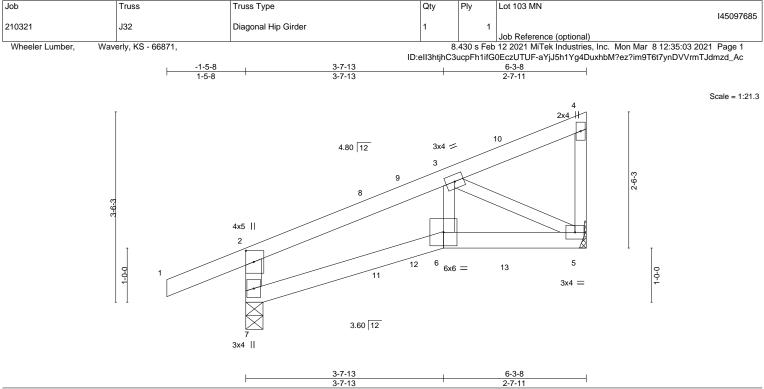


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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.0	2 6	>999	360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.0	4 6	>999	240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.06	Horz(CT) 0.0	2 5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.0	26	>999	240	Weight: 22 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2 *Except* 2-7: 2x4 SPF No.2

REACTIONS. (size) 7=0-3-13, 5=Mechanical Max Horz 7=134(LC 22) Max Uplift 7=-104(LC 4), 5=-110(LC 5) Max Grav 7=400(LC 1), 5=260(LC 1)

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

2-7=-406/137, 2-3=-368/109 TOP CHORD

BOT CHORD 6-7=-165/276. 5-6=-155/256

WEBS 3-5=-264/149

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to airder(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) except (jt=lb) 7=104, 5=110
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 33 lb up at 2-4-7, and 87 lb down and 58 lb up at 3-0-12, and 94 lb down and 73 lb up at 4-10-7 on top chord, and 11 lb down and 15 lb up at 2-4-7, and 8 lb down at 3-0-12, and 20 lb down and 17 lb up at 4-10-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

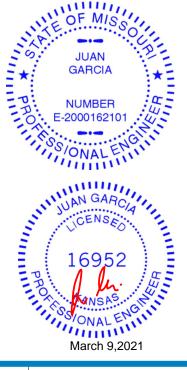
LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-4=-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 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



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

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

except end verticals.



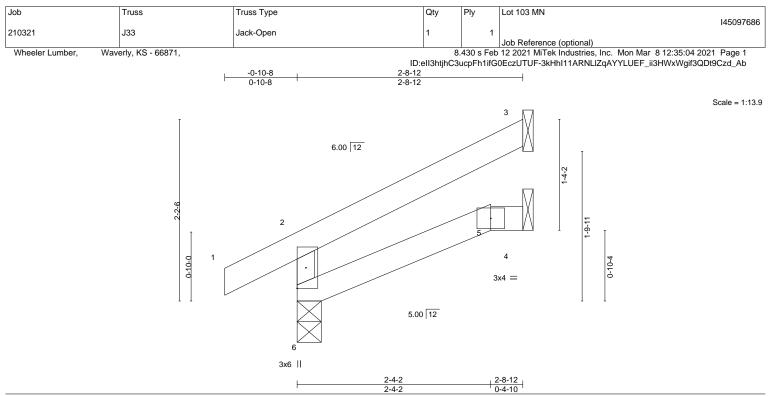
Job	Truss	Truss Type	Qty	Ply	Lot 103 MN
					145097685
210321	J32	Diagonal Hip Girder	1	1	
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,		8.	430 s Feb	12 2021 MiTek Industries, Inc. Mon Mar 8 12:35:03 2021 Page 2

ID:eII3htjhC3ucpFh1ifG0EczUTUF-aYjJ5h1Yg4DuxhbM?ez?im9T6t7ynDVVrmTJdmzd_Ac

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 11=1(B) 12=-2(F) 13=-3(B)





			2-4-2		0-4-10	
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 0.08	Vert(LL)	-0.00 5-6	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT)	-0.00 5-6	>999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.01 3	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00 5-6	>999 240	Weight: 9 lb FT = 10%

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-8-12 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bra

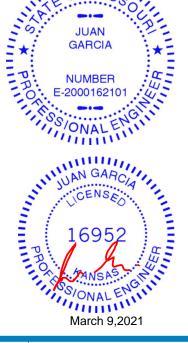
REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=60(LC 8)

Max Uplift 6=-21(LC 8), 3=-50(LC 8) Max Grav 6=197(LC 1), 3=76(LC 1), 4=49(LC 3)

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

NOTES-

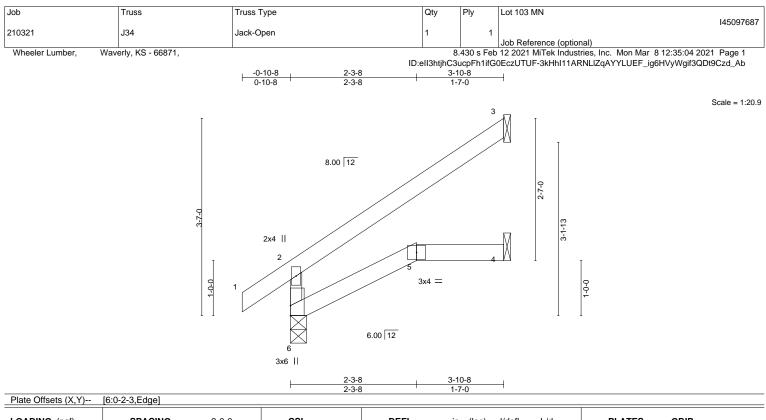
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 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) 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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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	0.21	Vert(LL)	-0.01	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	5	>999	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/TF	PI2014	Matri	x-R	Wind(LL)	0.02	5-6	>999	240	Weight: 12 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

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

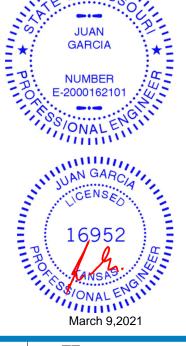
Max Horz 6=112(LC 8)

Max Uplift 3=-89(LC 8) Max Grav 6=244(LC 1), 3=127(LC 15), 4=71(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) 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.

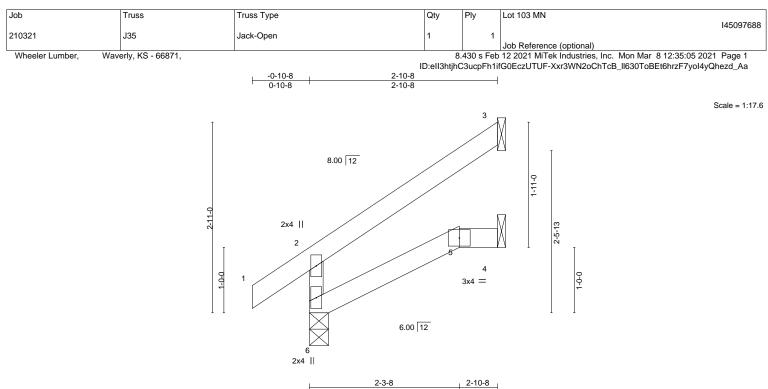


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		Γ	2-3-8	0-7-0		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL)	-0.00 5-6	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT)	-0.01 5-6	>999 240	1977144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.01 3	n/a n/a	Weight: 10 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.01 5-6	>999 240	

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

Structural wood sheathing directly applied or 2-10-8 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

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

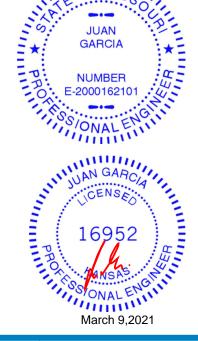
REACTIONS. (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=85(LC 8) Max Uplift 3=-67(LC 8), 4=-1(LC 8)

Max Grav 6=203(LC 1), 3=91(LC 15), 4=52(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) 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, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job	Truss	Truss Type	Qty	Ply	Lot 103 MN	145097689
210321	J36	Jack-Open	1	1		
Wheeler Lumber,	Naverly, KS - 66871,			8.430 s Fel	Job Reference (options o 12 2021 MiTek Industri	al) ies, Inc. Mon Mar 8 12:35:05 2021 Page 1
····,	, ,	0.40.0	ID:ell3htjl			oChTcB_ll630ToBEt2hscF7yol4yQhezd_Aa
		-0-10-8 0-10-8	1-4-8 1-4-8			
						Scale = 1:12.6
		_		3		
		8.00	12			
		2x4			1-4-8	
		2			, 	
		111-0		Л		
		1 10-0				
		7		/ _	م م	
					0-5-12 0-6-8	
				12		
			6.00	12		
		ŧ				
		2x4	II			
			1			
			1			
LOADING (psf)	SPACING-	2-0-0 CSI .	DEFL.	in (loc)	l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL	1.15 TC 0.07	Vert(LL) -0.0		>999 240	MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL Rep Stress Incr	1.15 BC 0.03 YES WB 0.00	Vert(CT) -0.0 Horz(CT) -0.0		>999 180 n/a n/a	
BCDL 10.0	Code IRC2018/TPI					Weight: 6 lb FT = 10%
LUMBER-			BRACING-			
TOP CHORD 2x4 SP			TOP CHORD			ectly applied or 1-4-8 oc purlins,
BOT CHORD 2x4 SP					end verticals.	

BOT CHORD

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

WEBS

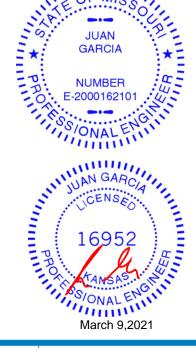
2x3 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=49(LC 5) Max Uplift 5=-3(LC 8), 3=-33(LC 8), 4=-8(LC 8) Max Grav 5=152(LC 1), 3=30(LC 15), 4=23(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

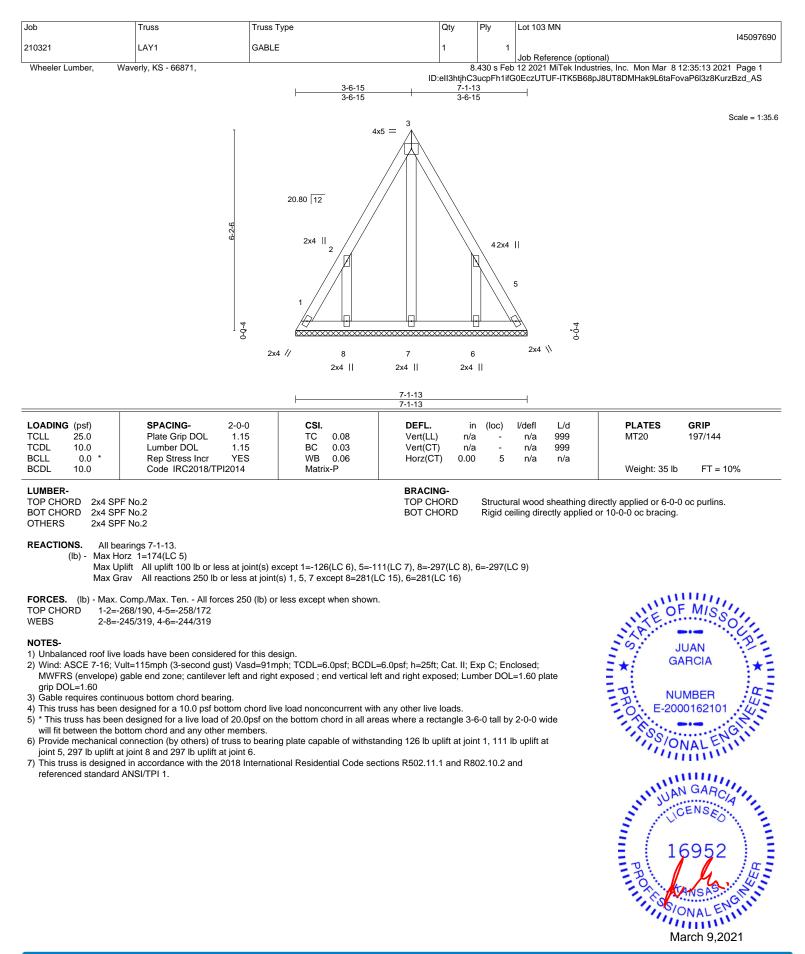


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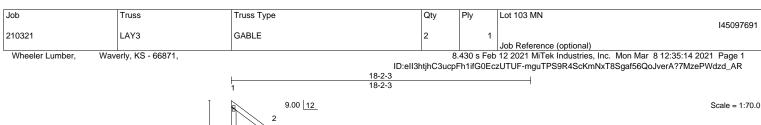
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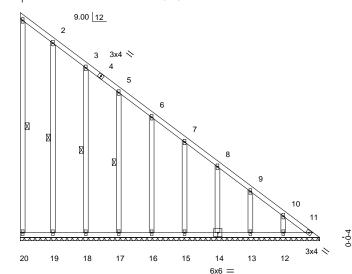
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OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) n/a	-	n/a	999	MT20	197/144
CDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a	-	n/a	999		
SCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.02	11	n/a	n/a		
SCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 119 lb	FT = 10%

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	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, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 1-20, 2-19, 3-18, 5-17

REACTIONS. All bearings 18-2-3. (lb) -

- Max Horz 20=-539(LC 9) Max Uplift All uplift 100 lb or less at joint(s) 20, 19, 18, 17, 16, 15, 14, 13, 12 except 11=-103(LC 7) Max Grav All reactions 250 lb or less at joint(s) 20, 19, 18, 17, 16, 15, 14, 13, 12 except 11=378(LC 9)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- 5-6=-269/106, 6-7=-345/134, 7-8=-422/161, 8-9=-499/189, 9-10=-576/217, TOP CHORD 10-11=-651/246
- BOT CHORD 19-20=-194/539, 18-19=-194/539, 17-18=-194/539, 16-17=-194/539, 15-16=-194/539, 14-15=-194/539, 13-14=-194/540, 12-13=-194/540, 11-12=-194/540

13-7-14

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) 20, 19, 18, 17, 16, 15, 14, 13, 12 except (jt=lb) 11=103.
- 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.



11111 OF MIS



Trus	SS	Truss Type	Qty	Ply	Lot 103 MN		
321 LAY	/4	GABLE	1	1			14509769
	KS - 66871,				Job Reference (optiona b 12 2021 MiTek Industrie		
		10.82 12			DEczUTUF-EsSrcoA4rmk		
		3x6 // 2x4 1 1 1 1 1 1 1 1 2 2x4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
		8 7	6 5				
		2x4 	6x6 = 2x4				
LL 25.0 P DL 10.0 L LL 0.0 * R	PACING- 2-0- Plate Grip DOL 1.1 umber DOL 1.1 Rep Stress Incr YES	5 TC 0.13 5 BC 0.03 6 WB 0.72	Vert(LL) n	in (loc) /a - /a - 00 5	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20	GRIP 197/144
DL 10.0 C	Code IRC2018/TPI2014	Matrix-P				Weight: 70 lb	FT = 10%
MBER- DP CHORD 2x4 SPF No.2 DT CHORD 2x4 SPF No.2 EBS 2x4 SPF No.2 2ES 2x4 SPF No.2 2-6: 2x3 SPF No.2 2-6: 2x3 SPF No.2			BRACING- TOP CHORD BOT CHORD WEBS	except Rigid c	ral wood sheathing dire end verticals. eiling directly applied or at midpt 1-8		oc purlins,

REACTIONS. All bearings 4-9-9.

Max Horz 8=166(LC 8) (lb) -

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 8, 5 except 7=-150(LC 6), 6=-821(LC 8) Max Grav All reactions 250 lb or less at joint(s) 8, 5 except 7=633(LC 8), 6=408(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-7=-613/183, 2-6=-289/808

NOTES-

OTHERS

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 ; Lumber DOL=1.60 plate grip DOL=1.60

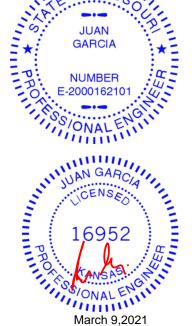
2) Gable requires continuous bottom chord bearing.

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) 8, 5 except (jt=lb) 7=150 6=821

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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lob	Truss	Truss Type	Q	ty	Ply	Lot 103	MN		
10321	LAY5	GABLE	1		1				14509769
10321	LATS	GABLE	1				erence (optional)	
Wheeler Lumber,	Waverly, KS - 66871,					b 12 2021	MiTek Industries	s, Inc. Mon Mar 81	2:35:16 2021 Page 1
			اD:ell) 0 ₁ 7-5 4-9-9	3htjhC3u	cpFh1ifG	60EczUTL	JF-i20Dq8Bic3s2	?g5sFti2kWBnM7cA	JydQqH7VaWzd_AP
			0-7-5 4-9-9 0-7-5 4-2-3						
		10	82 12 2x4 4						Scale = 1:7
			2x4 🛛 🗗						
			12 = 3						
			2x4 8						
		т		т					
		13-7-14							
		13-1							
		9-10-9		9-10-9					
		<u></u>		с. Г					
			8 7 6 5						
			2x4 4.6x6 = 2x4	Ш					
	1	1	4-9-9						
LOADING (psf)	SPACING- 2	0-0 CSI.	2x4 DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		.15 TC 0.06	Vert(LL)	n/a		n/a	999	MT20	197/144
TCDL 10.0 BCLL 0.0 *		.15 BC 0.03 YES WB 0.64	Vert(CT) Horz(CT)	n/a -0.00	- 5	n/a n/a	999 n/a		
BCDL 10.0	Code IRC2018/TPI20				-			Weight: 70 lb	FT = 10%
LUMBER-			BRACING				1		
TOP CHORD 2x4 SF			TOP CHO	RD				tly applied or 4-9-9	oc purlins,
	PF No.2 PF No.2 *Except*		BOT CHO	חא			cals, and 2-0-0	oc purlins: 1-2. 6-0-0 oc bracing.	
2-6: 2x	3 SPF No.2		WEBS			at midpt		4-5, 2-7, 3-6	
OTHERS 2x4 SF	PF No.2								
REACTIONS. All be	earings 4-9-9.								
	lorz 8=146(LC 8)								

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-7=-772/264, 2-6=-259/719

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 ; Lumber DOL=1.60 plate grip DOL=1.60

2) 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.

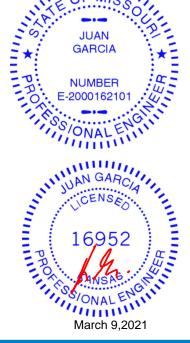
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5 except (jt=lb) 7=232. 6=814.

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

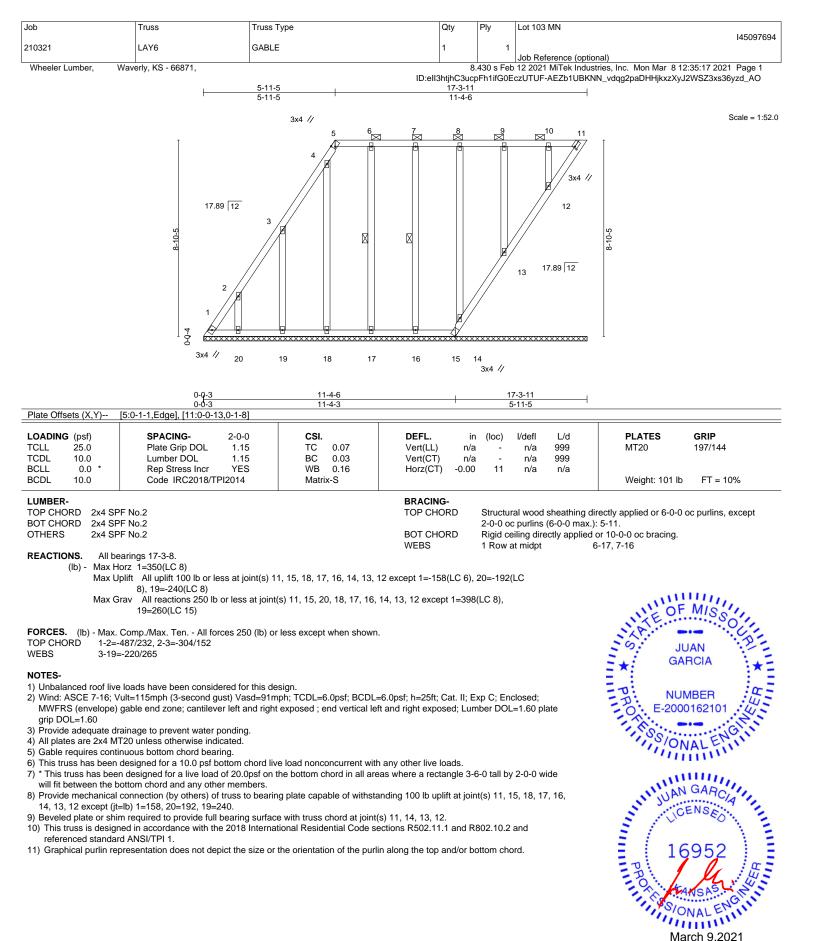
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



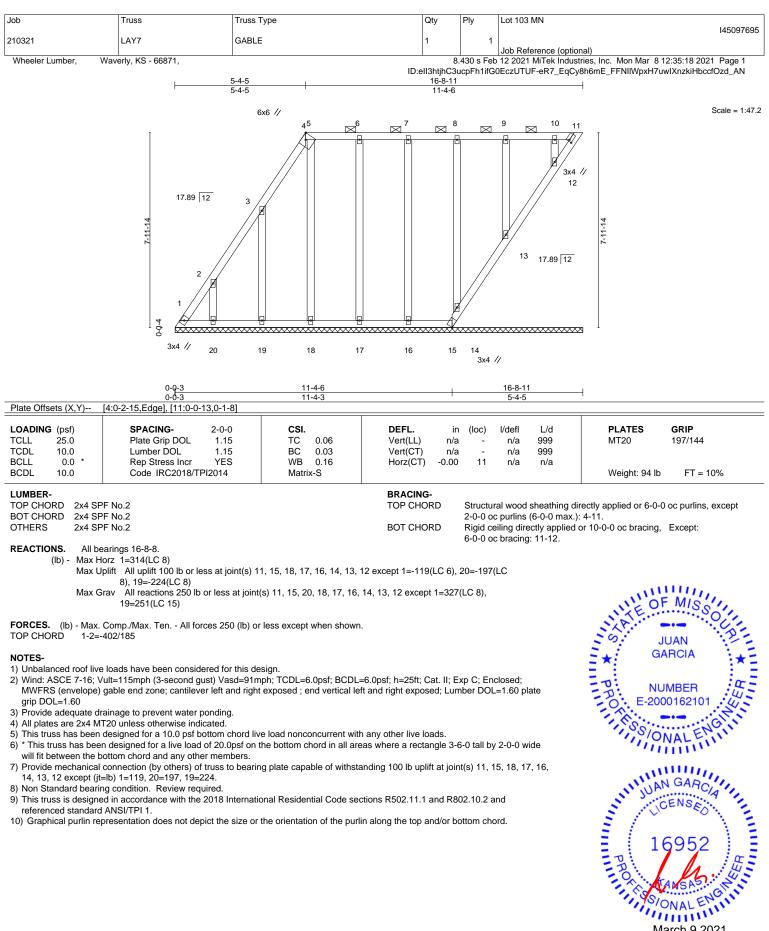
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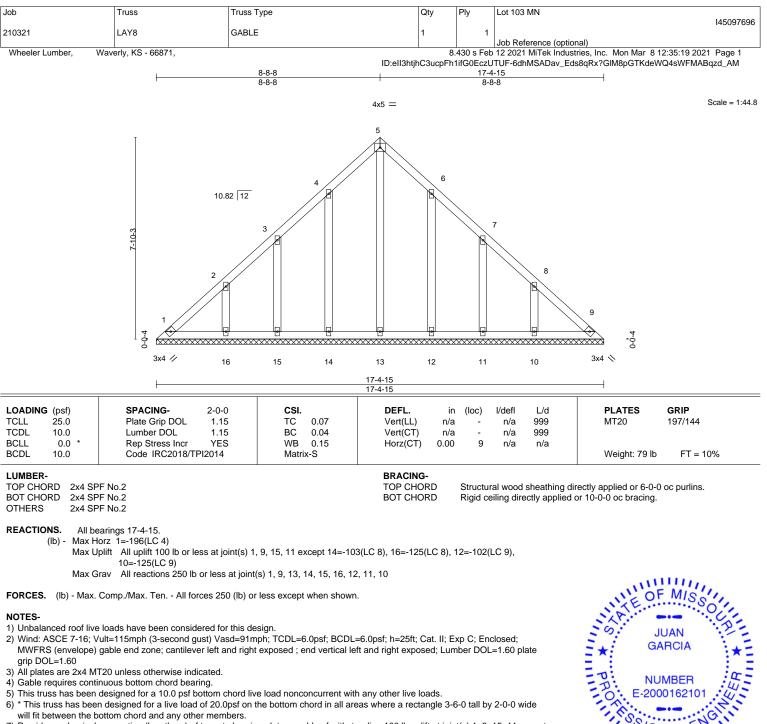


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mini March 9.2021

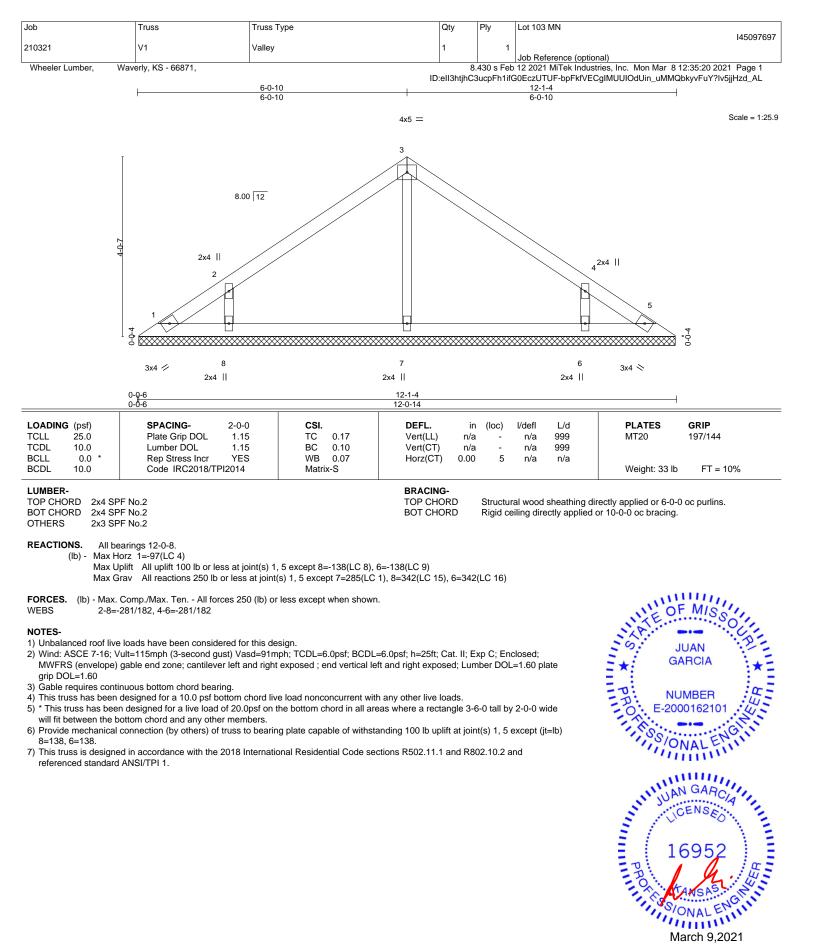


5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

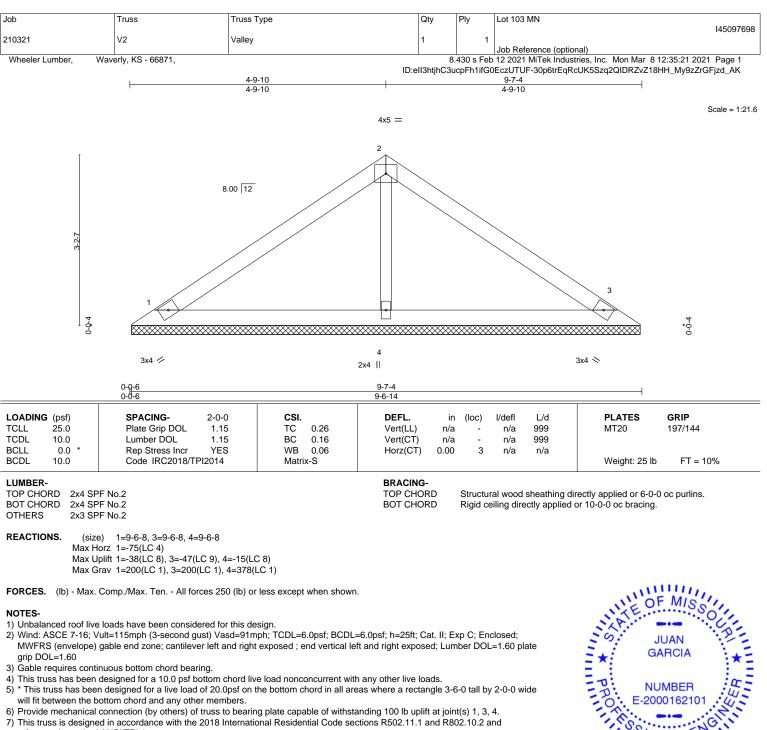
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6)
 - will fit between the bottom chord and any other members. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 15, 11 except (it=lb) 14=103. 16=125. 12=102. 10=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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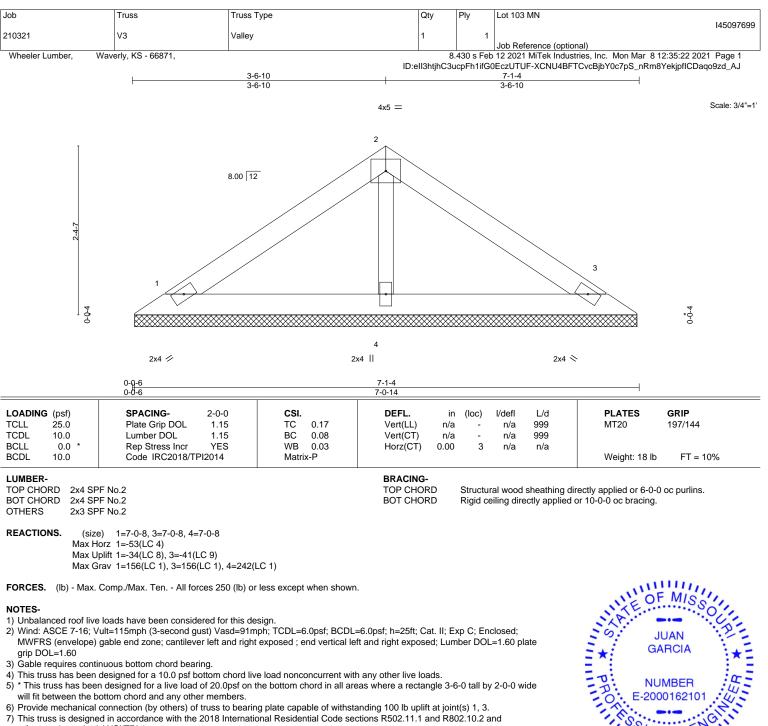
* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 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.







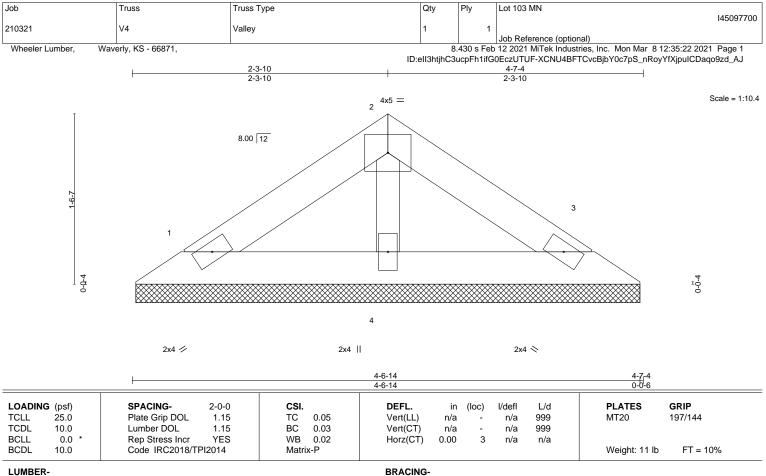
* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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TOP CHORD

BOT CHORD

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

2x3 SPF No.2 REACTIONS. 1=4-6-8, 3=4-6-8, 4=4-6-8 (size)

Max Horz 1=-32(LC 4)

Max Uplift 1=-20(LC 8), 3=-24(LC 9)

Max Grav 1=92(LC 1), 3=92(LC 1), 4=143(LC 1)

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

NOTES-

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

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

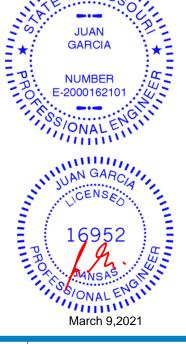
3) Gable requires continuous bottom chord bearing.

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.



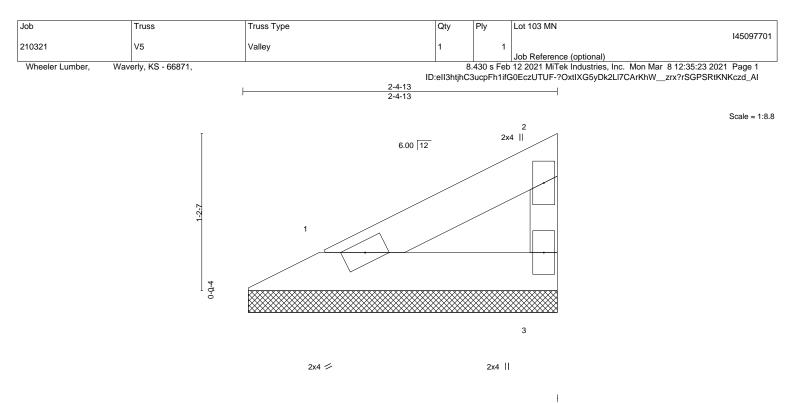
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Structural wood sheathing directly applied or 4-7-4 oc purlins.

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





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 0.04	Vert(LL) n/a	-	n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	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: 5 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 1=2-4-5, 3=2-4-5 (size) Max Horz 1=35(LC 5)

Max Uplift 1=-10(LC 8), 3=-18(LC 8) Max Grav 1=75(LC 1), 3=75(LC 1)

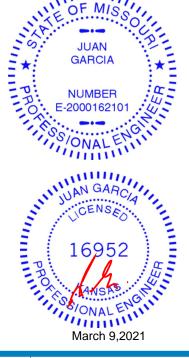
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) 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.



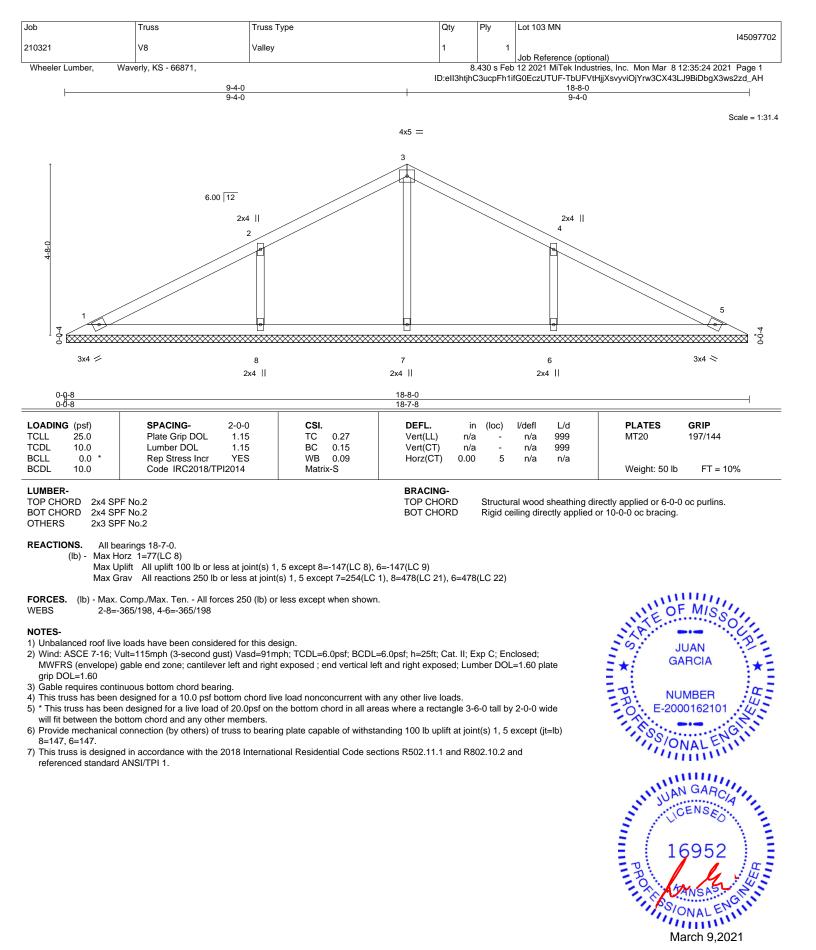
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Structural wood sheathing directly applied or 2-4-13 oc purlins,

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

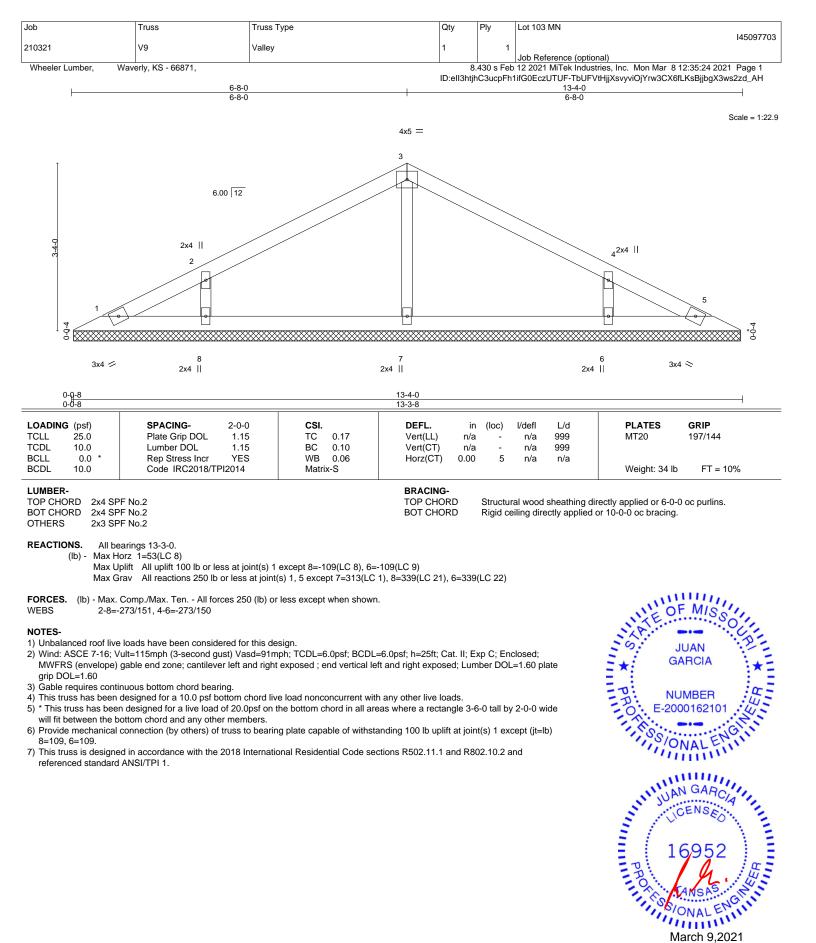
except end verticals.





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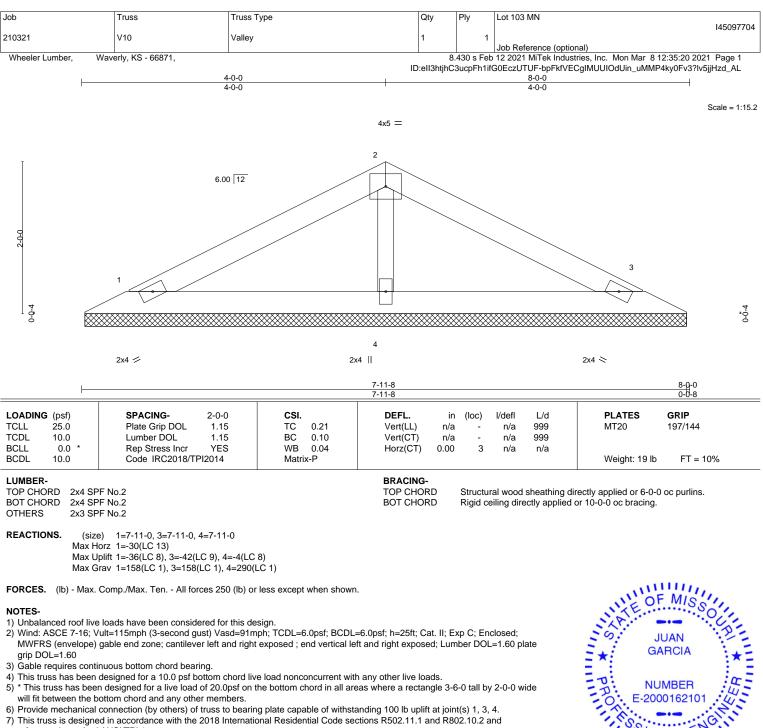


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* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 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.





