RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 09/21/2021 11:06:39

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

RE: 210533 Lot 109 MN

Site Information:

Customer: Project Name: 210533 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: ASCE 7 - 16[Low Rise] Roof Load: 45.0 psf

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

This package includes 75 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Seal# I45820619 I45820620 I45820621 I45820623 I45820623 I45820624 I45820625 I45820626 I45820627 I45820628 I45820629 I45820630 I45820631 I45820633 I45820633 I45820634 I45820635	Truss Name A1 A2 A3 A4 A5 B1 B2 B3 C1 C2 C3 C4 C5 C6 C7 C8 C9	Date 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021	No. 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	Seal# I45820639 I45820640 I45820641 I45820642 I45820643 I45820645 I45820645 I45820646 I45820647 I45820647 I45820648 I45820649 I45820650 I45820651 I45820652 I45820653 I45820654 I45820655	Truss Name D4 D5 D6 D7 D8 D9 E1 E2 E3 E4 G1 G2 J1 J2 J3 J4 J5	Date 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021
16	45820634	C8	4/26/2021	36	45820654	J4	4/26/2021
17	45820635	C9	4/26/2021	37	45820655	J5	4/26/2021
18	45820636	D1	4/26/2021	38	45820656	J6	4/26/2021
19	45820637	D2	4/26/2021	39	45820657	J7	4/26/2021
20	45820638	D3	4/26/2021	40	45820658	J8	4/26/2021

1 of 2

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: 210533 - Lot 109 MN

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Site Information:

Proje	ect Customer:	Project Name: 21	0533	Subdivision:
Addr	ASS'			Subulvision.
City,	County:			State:
No.	Seal#	Truss Name	Date	
41	145820659	J9	4/26/2021	
42	145820660	J10	4/26/2021	
43	145820661	J11	4/26/2021	
44	145820662	J12	4/26/2021	
45	145820663	J13	4/26/2021	
46	145820664	J14	4/26/2021	
47	145820665	J15	4/26/2021	
48	145820666	J16	4/26/2021	
49	145820667	J17	4/26/2021	
50	145820668	J18	4/26/2021	
51	145820669	J19	4/26/2021	
52	145820670	J20	4/26/2021	
53	145820671	J21	4/26/2021	
54	145820672	J22	4/26/2021	
55	145820673	J23	4/26/2021	
56	145820674	J24	4/26/2021	
57	145820675	J25	4/26/2021	
58	145820676	J26	4/26/2021	
59	145820677	J27	4/26/2021	
60	145820678	J28	4/26/2021	
61	145820679	LAY1	4/26/2021	
62	145820680	LAY2	4/26/2021	
63	145820681		4/26/2021	
64 07	145820682		4/26/2021	
65	145820683		4/26/2021	
66	145820684	LAY6	4/26/2021	
67	145820685	R1	4/26/2021	
68	145820686	V1	4/26/2021	
69 70	145820687	V2	4/26/2021	
70	145820688	V3	4/26/2021	
71	145820689	V4	4/26/2021	
12	145820690	VD VC	4/26/2021	
13	145820697	VO V/Z	4/26/2021	
14	140820692	V /	4/20/2021	
75	145820693	Võ	4/26/2021	



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

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This package includes 75 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Seal# 145820619 145820620 145820621 145820622 145820623 145820624 145820625 145820626 145820627 145820628 145820629 145820630 145820631 145820632	Truss Name A1 A2 A3 A4 A5 B1 B2 B3 C1 C2 C3 C4 C5 C6	Date 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021	No. 21 22 23 24 25 26 27 28 29 30 31 32 33 34	Seal# I45820639 I45820640 I45820641 I45820642 I45820643 I45820644 I45820645 I45820645 I45820646 I45820647 I45820648 I45820649 I45820650 I45820651 I45820652	Truss Name D4 D5 D6 D7 D8 D9 E1 E2 E3 E4 G1 G2 J1 J2	Date 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021 4/26/2021
12	I45820630	C4	4/26/2021	32	I45820650	G2	4/26/2021
13	I45820631	C5	4/26/2021	33	I45820651	J1	4/26/2021
14	145820632	C6	4/26/2021	34	l45820652	J2	4/26/2021
15	145820633	C7	4/26/2021	35	l45820653	J3	4/26/2021
16	145820634	C8	4/26/2021	36	l45820654	J4	4/26/2021
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The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

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

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



Garcia, Juan

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



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50	145820668	J18	4/26/2021	
51	145820669	J19	4/26/2021	
52	145820670	J20	4/26/2021	
53	145820671	J21	4/26/2021	
54	145820672	J22	4/26/2021	
55	145820673	J23	4/26/2021	
56	145820674	J24	4/26/2021	
57	145820675	J25	4/26/2021	
58	145820676	J26	4/26/2021	
59	145820677	J27	4/26/2021	
60	145820678	J28	4/26/2021	
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66	145820684	LAY6	4/26/2021	
67	145820685	R1	4/26/2021	
68	145820686	V1	4/26/2021	
69 70	145820687	V2	4/26/2021	
70	145820688	V3	4/26/2021	
71	145820689	V4	4/26/2021	
12	145820690	VD VC	4/26/2021	
13	145820697	VO V/Z	4/26/2021	
14	140820692	V /	4/20/2021	
75	145820693	Võ	4/26/2021	



Scale = 1:81.7



3-3-8		21-4-8	27-1-5	32-11-9	38-8-2	46-0-0	
J-3-8		7-U-5 9.4 Edgo] [20:0.7.9 Edg	5-8-13	5-10-5	5-8-9	7-3-14	
Plate Olisets (X, Y)	[1:0-3-13,0-1-9], [15:0-3-8,0-4-0], [17:0	-8-4,Edgej, [20:0-7-8,Edge	ej				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.35 BC 0.77 WB 0.92 Matrix-S	DEFL. Vert(LL) -0.5 Vert(CT) -1.0 Horz(CT) 0.2 Wind(LL) 0.3	in (loc) l/defl 58 17 >948 04 17-18 >528 29 10 n/a 38 17 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 1139 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x6 SF BOT CHORD 2x6 SF 5-16: 2 WEBS 2x4 SF 2-20: 2	P 2400F 2.0E P 2400F 2.0E *Except* 2x4 SPF No.2 PF No.2 *Except* 2x6 SPF No.2	-	BRACING- TOP CHORD BOT CHORD	Structural wood 2-0-0 oc purlins Rigid ceiling dire	sheathing directly (6-0-0 max.): 3-9. ectly applied or 10	y applied or 6-0-0 oc)-0-0 oc bracing.	: purlins, except
REACTIONS. (siz Max H Max U Max C	te) 1=0-3-8, 10=0-3-8 Horz 1=-37(LC 11) Jplift 1=-389(LC 5), 10=-407(LC 5) Grav 1=3967(LC 1), 10=4052(LC 1)					IN E OF	MISS
FORCES. (lb) - Max. TOP CHORD 1-2= 5-7=	. Comp./Max. Ten All forces 250 (lb) o -17869/1830, 2-3=-12721/1283, 3-4=-18 -23069/2269, 7-8=-11976/1195, 8-9=-11	r less except when shown 583/1824, 4-5=-18580/18 978/1196, 9-10=-8891/90	322, 18		3	JUL	AN P
BOT CHORD 1-20 16-1	=-1653/16359, 19-20=-1405/14049, 18- 7=0/262, 5-17=0/1021, 15-16=-169/169.	19=-1149/11901, 17-18=-2 2, 13-15=-1338/14302, 12	2244/23581, -13=-777/8019,			★ GAR	CIA *
WEBS 2-20 5-18 8-13	2=-713/0036 =-514/4829, 2-19=-2076/315, 3-19=-103 =-5255/507, 15-17=-1198/12924, 7-17= =-788/240, 9-13=-402/4632, 9-12=-56/8	3/1576, 3-18=-633/7111, 4 -911/9258, 7-15=-2716/42 56	l-18=-1108/318, 20, 7-13=-2688/242,			P NUM E-20001	BER 162101
 NOTES- 1) 4-ply truss to be cor Top chords connect Bottom chords connect webs connected as Attach BC w/ 1/2" d 2) All loads are consid ply connections hav 3) Unbalanced roof live 4) Wind: ASCE 7-16; \/ MWFRS (envelope) 5) Provide adequate d 6) This truss has been will fit between the t 8) Bearing at joint(s) 1 capacity of bearing 9) Provide mechanical 1=389, 10=407. 	nnected together with 10d (0.131"x3") na ted as follows: 2x6 - 2 rows staggered a sected as follows: 2x6 - 2 rows staggered a follows: 2x6 - 2 rows staggered at 0-9-4 iam. bolts (ASTM A-307) in the center o ered equally applied to all plies, except ve been provided to distribute only loads e loads have been considered for this dr /ult=115mph (3-second gust) Vasd=91n j; cantilever left and right exposed ; end rainage to prevent water ponding. o designed for a 10.0 psf bottom chord line n designed for a live load of 20.0psf on bottom chord and any other members. considers parallel to grain value using / surface.	ails as follows: : 0-9-0 oc. d at 0-9-0 oc, 2x4 - 1 row at) oc, 2x4 - 1 row at 0-9-0 oc f the member w/washers a f noted as front (F) or bac noted as (F) or (B), unless issign. nph; TCDL=6.0psf; BCDL= vertical left and right expo ve load nonconcurrent with the bottom chord in all are ANSI/TPI 1 angle to grain the ing plate capable of withsta	at 0-9-0 oc. bc. at 4-0-0 oc. k (B) face in the LOAD s otherwise indicated. =6.0psf; h=25ft; Cat. II; sed; Lumber DOL=1.60 h any other live loads. eas where a rectangle 3 formula. Building desig anding 100 lb uplift at jo	CASE(S) section. Exp C; Enclosed; 0 plate grip DOL=1. 3-6-0 tall by 2-0-0 w gner should verify pint(s) except (jt=lb)	Ply to 60 /ide	PBO TAK	ALEN NSEO 952 NALEN 126,2021
WARNING - Verify Design valid for use c a truss system. Befor building design. Brac is always required for fabrication, storage, c Safety Information	design parameters and READ NOTES ON THIS AN only with MiTek® connectors. This design is based e use, the building designer must verify the applica ing indicated is to prevent buckling of individual tr. stability and to prevent collapse with possible pers elivery, erection and bracing of trusses and truss s available from Truss Plate Institute, 2670 Crain Hig	D INCLUDED MITEK REFERENC only upon parameters shown, an bility of design parameters and p ss web and/or chord members or onal injury and property damage ystems, see ANS/ITPH hway, Suite 203 Waldorf, MD 20	E PAGE MII-7473 rev. 5/19/20 d is for an individual building roperly incorporate this desig nly. Additional temporary and . For general guidance regar Quality Criteria, DSB-89 ar 601	D20 BEFORE USE. component, not n into the overall J permanent bracing ding the nd BCSI Building Com	ponent	MiTek 16023 Swingley Chesterfield, MO	Ridge Rd 63017

Job	Truss	Truss Type	Qty	Ply	Lot 109 MN	
						I45820619
210533	A1	Hip Girder	1			
				4	Job Reference (optional)	
Wheeler Lumber. Wa	verly, KS - 66871.		8	.430 s Apr	20 2021 MiTek Industries, Inc. Mon Apr 26 08:37:12 2021	Page 2

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-Ixql8BMLZJHe_XJhy1OBWoOaosEfhGZwEVbfvDzMuxr

NOTES-

- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 115 lb down and 76 lb up at 9-0-0, 115 lb down and 76 lb up at 11-0-0, 115 lb down and 76 lb up at 13-0-0, 115 lb down and 76 lb up at 15-0-0, 115 lb down and 76 lb up at 12-0-0, 115 lb down and 76 lb up at 12-0-0, 115 lb down and 75 lb up at 23-0-0, 114 lb down and 75 lb up at 25-0-0, 114 lb down and 75 lb up at 23-0-0, 114 lb down and 75 lb up at 33-0-0, and 114 lb down and 75 lb up at 35-0-0, and 114 lb down and 75 lb up at 33-0-0 on top chord, and 451 lb down and 141 lb up at 5-0-0, 70 lb down at 17-0-0, 70 lb down at 13-0-0, 70 lb down at 13-0-0, 70 lb down at 13-0-0, 70 lb down at 25-0-0, 70 lb down at 25

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-70, 3-9=-70, 9-11=-70, 1-20=-20, 17-20=-20, 10-16=-20

Concentrated Loads (lb)

Vert: 19=-230(F) 15=-50(F) 7=-114(F) 8=-114(F) 13=-50(F) 12=-232(F) 21=-115(F) 22=-115(F) 23=-115(F) 24=-115(F) 25=-115(F) 26=-115(F) 27=-115(F) 28=-114(F) 30=-114(F) 31=-114(F) 32=-114(F) 33=-114(F) 34=-451(F) 35=-49(F) 36=-49(F) 37=-49(F) 38=-49(F) 38=-49(F) 39=-49(F) 40=-49(F) 41=-49(F) 42=-50(F) 43=-50(F) 44=-50(F) 45=-50(F) 46=-50(F) 47=-50(F) 48=-463(F)





April 26,2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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

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

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=273, 11=305

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

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3-3-8	12-1-8	21-4-8	27-4-12	33-10-8	38-7-5	46-0-0	
3-3-8	8-10-0	9-3-0	6-0-4	6-5-12	4-8-13	7-4-11	
Plate Offsets (X,Y)	[1:0-3-9,Edge], [8:0-2-8,0-2-0], [11:0-0-	0,0-2-1], [15:0-2-8,0-1-8],	[18:0-5-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) l/de	fl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.84	Vert(LL) -	0.60 18 >91	3 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -	1.19 18-19 >46	1 240	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT)	0.53 11 n/	a n/a		
BCDI 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.43 18 >99	9 240	Weight: 211 lb	FT = 10%
BOBE 10.0		induix 0		0.10 10 200	5 210		, , , , , , , , , , , , , , , , , , , ,
LUMBER-			BRACING.				
	DE No 2 *Except*			Structural w	od sheathing dir	actly applied or 2-0-0	oc purling except
			TOP CHORD		ing (2, 10, 6, may)	. 4 0	oc punnis, except
1-4. 2X				2-0-0 00 pun	1115 (2-10-0 111ax.)	. 4-9.	
BUTCHORD 2X4 SF	2100F 1.8E "Except"	-	BOT CHORD	Rigia ceiling	directly applied o	r 2-2-0 oc bracing.	
1-20:2	2x6 SPF 1650F 1.4E, 14-17: 2x4 SPF N	5.2	WEBS	1 Row at mic	ipt 3-	-19, 5-19	
WEBS 2x3 SF	PF No.2 *Except*						
2-20: 2	2x6 SPF No.2, 16-18: 2x4 SPF 2100F 1.	8E					
OTHERS 2x3 SF	PF No.2						
WEDGE							
Right: 2x4 SP No.3							
						Nº OF	MISSI
REACTIONS. (siz	e) 1=0-3-8, 11=0-3-8					NKE	
Max H	lorz 1=-97(LC 9)					NAR.	
Max U	lplift 1=-243(LC 4), 11=-275(LC 5)					- 6 -	· P.=
Max G	ray 1=2055(IC1) 11=2128(IC1)						UAN
						G/	ARCIA
FORCES (Ib) - Max	Comp /Max Ten - All forces 250 (lb) o	less excent when shown					10 =
	2025/10/6 2 2- 7516/042 2 4- 4791/	64 4 5- 4225/625 5 6-	5564/904			E	
	5553/1040, 2 = 7510/945, 3 = 4 = 4701/	504, 4-5=-4525/055, 5-0=	-5504/894,			- D: NU	MBER
	-5501/690, 6-9=-4404/727, 9-10=-5624/	565, 10-11=-4260/557	A 40 45 400/0000			- D 000	
BUTCHORD 1-20	=-937/8136, 19-20=-756/5978, 18-19=-7	01/5146, 15-16=-400/347	4, 13-15=-430/3803	',		- O. E-200	0102101 . 4
11-1	3=-436/3803					1. 6	
WEBS 6-18:	=-350/144, 2-20=-171/1936, 3-20=-123/	1374, 3-19=-1690/379, 4-	19=-131/1420,			1.80.	
5-19:	=-1235/294, 5-18=-81/676, 16-18=-581/	4409, 8-18=-215/1434, 9-	16=-232/1315,			1,0/0	NALE
9-15:	=-49/357, 10-15=-412/187, 10-13=0/252	, 8-16=-1343/330					
NOTES-							MHD.
 Unbalanced roof live 	e loads have been considered for this de	esign.					GAD
2) Wind: ASCE 7-16; \	/ult=115mph (3-second gust) Vasd=91n	nph; TCDL=6.0psf; BCDL	=6.0psf; h=25ft; Cat.	II; Exp C; Enclose	d;	N'UAI	CAACI
MWFRS (envelope)	gable end zone; cantilever left and righ	exposed ; end vertical le	ft and right exposed;	; Lumber DOL=1.6	0 plate	N	ENO
arip DOL=1.60	с , <u>с</u>		0 1 7		•		ENSED
3) Provide adequate d	rainage to prevent water ponding.					5 1 1	
4) All plates are MT20	plates unless otherwise indicated					2 () () () () () () () () () (· · · · · · · · · · · · · · · · · · ·
5) This truss has been	designed for a 10.0 psf bottom chord liv	e load nonconcurrent wit	h any other live loads	\$		2 1 1	6052 5
6) * This trues has been	n designed for a live load of 20 Opsf on	the bottom chord in all are	any other a rectand	3. la 3-6-0 tall by 2-0-	0 wide		0902 : =
will fit botwoon the k	attem chord and any other members		eas where a rectarigi	10 3-0-0 tall by 2-0-		- D:	
T) Depring of initial	occorrection and any other members.	NCI/TDI 4 angle te grain	المسموريات المستعمل	للاحد الماريح والمعرفة		- 7.	4. 14-
7) Bearing at joint(s) 1	considers parallel to grain value using A	ANSI/TPT Tangle to grain	iormula. Building de	signer should veri	у	A	
capacity of bearing	surface.					1.00	INST. G
8) Provide mechanical	connection (by others) of truss to bearing	ng plate capable of withsta	anding 100 lb uplift a	it joint(s) except (jt:	=ID)	1, 510	DNAL ENT
1=243, 11=275.						111	NAL
9) This truss is designed	ed in accordance with the 2018 Internati	onal Residential Code se	ctions R502.11.1 and	d R802.10.2 and			
referenced standard	ANSI/TPI 1.					A	prii 26,2021
10) Graphical purlin re	presentation does not depict the size or	the orientation of the purl	in along the top and/	or bottom chord.			
A							0
WARNING - Verify	design parameters and READ NOTES ON THIS AN	D INCLUDED MITEK REFERENC	CE PAGE MII-7473 rev. 5/1	9/2020 BEFORE USE.			
Design valid for use of a truss system. Refer	nly with Millek® connectors. This design is based	only upon parameters shown, ar bility of design parameters and r	nd is for an individual build	ing component, not			
building design. Brac	ing indicated is to prevent buckling of individual tru	ss web and/or chord members of	nly. Additional temporary	and permanent bracing		Mitok	0
is always required for	stability and to prevent collapse with possible pers	onal injury and property damage	. For general guidance re	egarding the			
fabrication, storage, d	elivery, erection and bracing of trusses and truss s	ystems, see ANSI/TPI	Quality Criteria, DSB-8	9 and BCSI Building C	omponent	16023 Swing	ley Ridge Rd
Safety Information	available from Truss Plate Institute, 2670 Crain Hig	nway, Suite 203 Waldorf, MD 20	1001			Chesterfield,	MO 63017



	<u>3-3-8</u> 3-3-8	7-9-7 4-5-15	14-6-5	<u>21-4-8</u> 6-10-3	26-7-0 5-2-8	31-5-11	38-2-7		46-0-0		
Plate Offse	ets (X,Y)	[1:0-3-9,Edge],	[9:0-0-0,0-2-1], [13:0-2-6	8,0-1-8], [16:0-2-8,0-4-12]], [19:0-11-4,0-5-4]	4 10 12	0012		100		
LOADING TCLL TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 * 10.0	SPACIN Plate Gri Lumber I Rep Stre Code IR	G- 2-0-0 p DOL 1.15 DOL 1.15 iss Incr YES iC2018/TPI2014	CSI. TC 0.61 BC 0.95 WB 0.92 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.47 16 -0.84 16-17 0.45 9 0.32 16	l/defl L/d >999 360 >650 240 n/a n/a >999 240		PLATES MT20 M18SHS Weight: 269 lb	GRIP 197/144 197/144 FT = 10%	6
LUMBER- TOP CHOI BOT CHOI WEBS OTHERS LBR SCAE WEDGE Right: 2x4 REACTION	RD 2x6 SF 1-4: 2x RD 2x6 SF 16-19: 9-12: 2 2x3 SF 2-19: 2 2x6 SF 12-12: 3 1-4 2x6 SP No.3 NS. (siz Max H Max U Max G	PF No.2 *Except 6 SP 2400F 2.0E *E 2400F 2.0E *E 2x6 SPF 1650F 1 5 No.2 *Except 2x10 SP DSS, 14 2400F 2.0E *E 2x3 SPF No.2 6 SP 2400F 2.0E e) 1=0-3-8, 9= lorz 1=-115(LC lplift 1=-214(LC 5rav 1=2055(LC	* E xcept* 1.4E, 12-15: 2x4 SPF N 1.8E * 4-16: 2x4 SPF No.2 xcept* E one side =0-3-8 9) 4), 9=-246(LC 5) 1), 9=2128(LC 1)	No.2	BRACING- TOP CHOR BOT CHOR WEBS	D Structu 2-0-0 o D Rigid c 2-2-0 o 1 Row	ral wood sheath c purlins (2-11-1 eiling directly ap c bracing: 11-13 at midpt	ing directly a 1 max.): 4-7 plied or 10-0	pplied or 2-9-7 c -0 oc bracing, I 14 GAF	Except:	cept
FORCES. TOP CHOI BOT CHOI WEBS	Max Grav 1=2055(LC 1), 9=2128(LC 1) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-7967/820, 2-3=-6151/717, 3-4=-4376/579, 4-5=-4565/687, 5-6=-4567/689, 6-7=-3696/573, 7-8=-3619/510, 8-9=-4277/490 BOT CHORD 1-19=-723/7179, 18-19=-569/5478, 17-18=-569/5478, 16-17=-390/3947, 13-14=-306/3250, 11-13=-375/3817, 9-11=-375/3817 WEBS 5-16=-478/193, 2-19=-154/2151, 3-19=-137/402, 3-18=0/288, 3-17=-1616/346, 4-17=-26/724, 4-16=-179/967, 14-16=-403/3738, 6-16=-173/1245, 6-14=-1246/264, 7-14=-146/8766, 7-13=-45/419, 8-13=-653/234, 8-11=0/314										
NOTES- 1) Attachee at 0-0-9 2) Unbalar 3) Wind: A MWFRS grip DO 4) Provide 5) All plate 6) This trus 7) * This tr will fit be 8) Bearing Cordtheasthy	 IOTES-) Attached 15-11-2 scab 1 to 4, front face(s) 2x6 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-9 from end at joint 1, nail 2 row(s) at 7" o.c. for 2-0-0;) Unbalanced roof live loads have been considered for this design.) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60) Provide adequate drainage to prevent water ponding.) All plates are MT20 plates unless otherwise indicated.) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify April 26,2021 										
Design a truss buildin is alwa fabrica Safety	RNING - Verify a valid for use o s system. Before g design. Brac ays required for tition, storage, d	design parameters ar nly with MiTek® con e use, the building de ing indicated is to pre- stability and to preve lelivery, erection and available from Truss	nd READ NOTES ON THIS AND nectors. This design is based signer must verify the applicat event buckling of individual tru: ant collapse with possible pers bracing of trusses and truss s Plate Institute, 2670 Crain Hig	D INCLUDED MITEK REFERENCE only upon parameters shown, ar billy of design parameters and p ss web and/or chord members o onal injury and property damage ystems, see ANS/ITPI hway, Suite 203 Waldorf, MD 20	CE PAGE MII-7473 rev. 5 d is for an individual bu properly incorporate this only. Additional tempora a. For general guidance 1 Quality Criteria, DSB 0601	/19/2020 BEFORE Iding component, i design into the overy ry and permanent regarding the 89 and BCSI Buil	USE. not erall bracing ding Component		Milek* 16023 Swingley Chesterfield, M	y Ridge Rd O 63017	

Job	Truss	Truss Type	Qty	Ply	Lot 109 MN	
						145820622
210533	A4	Hip	1	1		
					Job Reference (optional)	
Wheeler Lumber, Wa	verly, KS - 66871,		8	.430 s Apr	20 2021 MiTek Industries, Inc. Mon Apr 26 08:37:24 2021	Page 2

ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-yEYqfHVsk?nxQNE?fZc??KuahhJIVheh_NVIKWzMuxf

NOTES-

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=214, 9=246.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.83 BC 0.94 WB 0.97 Matrix-S	DEFL. in Vert(LL) -0.49 Vert(CT) -0.90 Horz(CT) 0.49 Wind(LL) 0.33	(loc) l/defl 17-18 >999 19-20 >606 12 n/a 19-20 >999	L/d 360 240 n/a 240	PLATES MT20 M18SHS Weight: 215 lb	GRIP 197/144 197/144 FT = 10%	
LUMBER- TOP CHORD 2x6 S 5-7: 2 BOT CHORD 2x4 S 1-20: WEBS 2x3 S 2 20 0	P DSS *Except* x6 SPF No.2, 7-11: 2x4 SPF No.2 PF 2100F 1.8E *Except* 2x6 SPF 1650F 1.4E, 6-16: 2x3 SPF No. PF No.2 *Except* 1/2: 2x4 SPE No.2, 10, 12: 2x6 SP DSS	2, 14-16: 2x4 SPF No.2	BRACING- TOP CHORD BOT CHORD	Structural wood a except end vertic Rigid ceiling dire 9-1-3 oc bracing 2-2-0 oc bracing	sheathing dire cals, and 2-0-0 ctly applied or : 1-20 : 13-15.	ctly applied or 2-0-13) oc purlins (3-1-9 ma · 10-0-0 oc bracing, I	oc purlins, x.): 5-7. Except:	
REACTIONS. (siz Max H Max U Max 0	te) 1=0-3-8, 12=0-3-8 Horz 1=-121(LC 9) Jplift 1=-212(LC 8), 12=-237(LC 9) Grav 1=2052(LC 1), 12=2131(LC 1)		WLDS	T Now at mupt	5-1	LINTE OF	MISSO	
ORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. JUAN OP CHORD 1-2=-8601/917, 2-3=-7569/903, 3-4=-5107/531, 4-5=-3821/478, 5-6=-3787/524, 6-7=-3783/526, 7-8=-3312/431, 8-9=-3875/407, 9-10=-1046/162, 10-12=-675/163 OT CHORD 1-20=-922/7801, 19-20=-578/5404, 18-19=-340/4138, 17-18=-256/3496, 6-17=-585/224, 13-15=-270/3417, 12-13=-329/3604 VEBS 5-18=-97/763, 5-17=-131/683, 7-15=-50/307, 8-15=-584/218, 8-13=-6/328, NUMBER 7-17=-154/1129, 15-17=-219/2829, 4-18=-889/242, 4-19=-120/1055, 3-19=-1110/273, 3-20=-326/1939, 2-20=-60/1532, 9-12=-3041/342								
 NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; MWFRS (envelope grip DOL=1.60 3) Provide adequate of 4) All plates are MT20 5) This truss has beer 6) * This truss has beer 7) Bearing at joint(s) 1 capacity of bearing 8) Provide mechanica 1=212, 12=237. 9) This truss is design referenced standar 10) Graphical purlin referenced 	 = 520/1939, 2-20=-00/1532, 9-12=-3041 e loads have been considered for this de Vult=115mph (3-second gust) Vasd=91rr) gable end zone; cantilever left and right Irainage to prevent water ponding. plates unless otherwise indicated. i designed for a 10.0 psf bottom chord live en designed for a live load of 20.0psf on bottom chord and any other members. considers parallel to grain value using A surface. I connection (by others) of truss to bearir ed in accordance with the 2018 International d ANSI/TPI 1. epresentation does not depict the size or 	rsign. ph; TCDL=6.0psf; BCDL is exposed ; end vertical le re load nonconcurrent with the bottom chord in all are NSI/TPI 1 angle to grain ng plate capable of withsta onal Residential Code se the orientation of the purl	=6.0psf; h=25ft; Cat. II; E ft and right exposed; Lun h any other live loads. eas where a rectangle 3- formula. Building design anding 100 lb uplift at joir ctions R502.11.1 and R8 in along the top and/or b	xp C; Enclosed; nber DOL=1.60 pla 6-0 tall by 2-0-0 wi er should verify nt(s) except (jt=lb) 02.10.2 and ottom chord.	ate de	PROFILESSION	GARCIA ENSED 952 MALEN	

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

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MiTek

16023 Swingley Ridge Rd Chesterfield, MO 63017

April 26,2021

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16023 Swingley Ridge Rd Chesterfield, MO 63017

L	8-5-5	16-1	1-2	22-6-9		28-4-0	
I	8-5-5	8-5-	-13	5-7-7		5-9-7	1
Plate Offsets (X,Y)	[2:0-2-12,0-2-4], [8:Edge,0-2-8], [10:0-2-	-8,0-1-8]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.82 BC 0.90 WB 0.89 Matrix-S	DEFL. Vert(LL) -0.2 Vert(CT) -0.3 Horz(CT) 0.0 Wind(LL) 0.0	in (loc) l/defl 1 10-12 >999 7 10-12 >897 6 8 n/a 9 10-12 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 118 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x3 SP 2-13: 2	F No.2 F No.2 F No.2 *Except* x6 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood s except end vertic Rigid ceiling direc 1 Row at midpt	heathing dir als, and 2-0- ctly applied c 7-	ectly applied or 3-3-1 (-0 oc purlins (5-9-4 ma or 8-0-8 oc bracing. -8, 5-9, 3-13	oc purlins, ıx.): 5-7.
REACTIONS. (size Max H Max U Max G	 8=0-3-8, 13=0-3-8 13=289(LC 8) plift 8=-205(LC 4), 13=-182(LC 8) rav 8=1372(LC 2), 13=1395(LC 2) 					NULL OF	MISSIL
FORCES. (lb) - Max. TOP CHORD 2-3=- 7-8=- BOT CHORD 12-13 WEBS 3-12= 6-9=-	Comp./Max. Ten All forces 250 (lb) or 735/100, 3-4=-2263/248, 4-5=-1453/171 1256/233, 2-13=-488/121 3=-526/2165, 10-12=-348/1751, 9-10=-1 -262/210, 4-12=-15/510, 4-10=-677/242 478/195, 7-9=-213/1426, 3-13=-1731/22	less except when shown , 5-6=-887/134, 6-7=-885 80/1275 2, 5-10=-92/787, 5-9=-644 7	5/132, 4/146,			GA NUM	JAN RCIA
 Unbalanced roof live Wind: ASCE 7-16; V MWFRS (envelope) DOL=1.60 Provide adequate dr This truss has been This truss has been this truss has been Provide mechanical 8=205, 13=182. This truss is designer referenced standard Graphical purlin repr 	loads have been considered for this de ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right ainage to prevent water ponding. designed for a 10.0 psf bottom chord live n designed for a live load of 20.0psf on t ottom chord and any other members, wi connection (by others) of truss to bearin ad in accordance with the 2018 Internation ANSI/TPI 1. esentation does not depict the size or th	sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical le e load nonconcurrent with he bottom chord in all are th BCDL = 10.0psf. g plate capable of withsta onal Residential Code sec le orientation of the purlin	=6.0psf; h=25ft; Cat. II; ft exposed; Lumber DO n any other live loads. eas where a rectangle 3 anding 100 lb uplift at jo ctions R502.11.1 and R n along the top and/or b	Exp C; Enclosed; L=1.60 plate grip -6-0 tall by 2-0-0 wid int(s) except (jt=lb) 802.10.2 and ottom chord.	de		GARCIA ENSEO

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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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Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

	2-9-8	9-8-11	15-6-6		21	-1-8			28-4-0	_
Plate Offset	<u></u>	[2:0-0-4.0-0-8], [3:0-1-9.0-3-3]	5-9-10		5-	1-2			7-2-8	
	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
	25.0	Plate Grip DOL 1.15	BC 0.59	Vert(LL)	-0.29	3-13	>999	360	MT20	197/144
BCLL	0.0 *	Rep Stress Incr YES	WB 0.78	Horz(CT)	0.38	20	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.23	3-13	>999	240	Weight: 125 lb	FT = 10%
LUMBER- TOP CHOR BOT CHOR WEBS OTHERS	2x6 SP 5-8: 2x 2x4 SP 3-11: 2 2x3 SP 2x4 SP	2400F 2.0E *Except* 4 SPF No.2 F No.2 *Except* x4 SPF 2100F 1.8E, 7-10: 2x3 SPF No.2 F No.2 F No.2	2	BRACING- TOP CHOR BOT CHOR	RD RD	Structura except e Rigid cei 6-0-0 oc	al wood nd vertie iling dire bracing	sheathing dir cals, and 2-0- ctly applied c : 2-14.	ectly applied or 2-2-0 c -0 oc purlins (2-7-0 ma: or 10-0-0 oc bracing, E	c purlins, (.): 5-8. Except:
REACTION	IS. (size Max H Max U Max G	e) 2=0-3-8, 20=0-2-8 brz 2=148(LC 5) plift 2=-160(LC 4), 20=-219(LC 4) rav 2=1351(LC 1), 20=1238(LC 1)							INTE OF	MISSO
FORCES. TOP CHOR	(lb) - Max. D 2-3=- 7-8=-	Comp./Max. Ten All forces 250 (lb) or 625/21, 3-4=-3629/511, 4-5=-2735/395, 2095/383	less except when shown 5-6=-2737/467, 6-7=-209	96/377,					JU GAF	AN
BOT CHOR WEBS	RD 3-13= 4-13= 8-20=	580/3504, 12-13=-402/2483, 11-12=-49 1135/290, 5-13=-27/608, 5-12=-104/45 1251/223	92/2736, 7-11=-474/196 8, 6-11=-739/103, 8-11=	-406/2194,					PP. NUM	162101
NOTES-										
1) Unbalan 2) Wind: AS MWFRS grip DOL	ced roof live SCE 7-16; V (envelope) _=1.60	loads have been considered for this de: ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right	sign. ph; TCDL=6.0psf; BCDL= exposed ; end vertical le	=6.0psf; h=25ft; Ca ft and right expose	at. II; E: ed; Lum	kp C; Enc iber DOL=	losed; =1.60 pl	ate	SSION	ALENGLI
3) Provide a	adequate dr	ainage to prevent water ponding.								uun.
 This trus This trus 	s has been	designed for a 10.0 psf bottom chord live	e load nonconcurrent with	n any other live loa	ads.	0 toll by	200w	ido	11 AN	GARC
will fit be	tween the b	ottom chord and any other members.		as where a rectar	iyie 3-b	-o tali by	∠-0-0 W	iue	1. 20	NONA
6) Bearing capacity	at joint(s) 20 of bearing s) considers parallel to grain value using <i>i</i> surface.	ANSI/TPI 1 angle to grain	n formula. Building	g desigi	ner should	d verify		and the	NSEO
7) Provide i	mechanical	connection (by others) of truss to bearing	g plate at joint(s) 20.							0.50
 8) Provide (2=160, 2 	mechanical 20=219.	connection (by others) of truss to bearing	g plate capable of withsta	anding 100 lb uplift	t at join	t(s) excep	ot (jt=lb)		19	952
9) This trus	s is designe	d in accordance with the 2018 Internatio	nal Residential Code ser	ctions R502 11 1 a	and R80)2 10 2 ar	hd			14 : 15 -

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.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Scale = 1:52.4

2-9-8	3 7-3-14	14-3-15	21-1-8	3		28-4-0			
2-9-8	3 4-6-6	7-0-1	6-9-9)		7-2-8			
Plate Offsets (X,Y)	[2:0-1-0,0-0-4]								
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.83 BC 0.62 WB 0.79 Matrix-S	DEFL. in Vert(LL) -0.38 Vert(CT) -0.68 Horz(CT) 0.35 Wind(LL) 0.30	(loc) l/defl 13 >892 12-13 >493 21 n/a 13 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 120 lb	GRIP 197/144 FT = 10%		
LUMBER- TOP CHORD 2x4 SI 1-5: 2: BOT CHORD 2x4 SI 3-12: : WEBS 2x3 SI 3-15,9 OTHERS 2x4 SI	PF 2100F 1.8E *Except* <6 SP 2400F 2.0E PF No.2 *Except* 2x4 SPF 2100F 1.8E, 8-11: 2x3 SPF No. PF No.2 *Except* -12: 2x4 SPF No.2 PF No.2	2	BRACING- TOP CHORD BOT CHORD	Structural wood except end ver Rigid ceiling dir	I sheathing dirr iicals, and 2-0- ectly applied o	ectly applied or 3-1-0 o 0 oc purlins (3-1-8 ma) r 6-0-0 oc bracing.	c purlins, (.): 5-9.		
REACTIONS. (siz Max H Max L Max C	te) 2=0-3-8, 21=0-2-8 Horz 2=121(LC 5) Jplift 2=-184(LC 4), 21=-224(LC 5) Grav 2=1350(LC 1), 21=1237(LC 1)					NIXATE OF	MISSOU		
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. JUAN TOP CHORD 2-3=-626/58, 3-4=-4258/644, 4-5=-3264/509, 5-6=-4008/704, 6-8=-4007/704, 8-9=-3230/613 BOT CHORD 3-14=-710/4178, 13-14=-522/3041, 12-13=-639/3265, 8-12=-761/244 WEBS 5-14=0/484, 5-13=-224/1163, 6-13=-507/210, 8-13=-107/784, 9-12=-624/3227, 4-14=-1210/229, 9-21=-1274/233 NOTES-									
 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 6) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=184, 21=224. 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. 									

April 26,2021

Scale = 1:50.6

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F	2-9-8	4-11-2	10-3-6 5-4-5		15-7-1	11 5	21-1-	83	21-6-0 0-4-8	<u>28-4-0</u> 6-10-0		
Plate Offsets ()	X,Y)	2:0-1-14,0-2-0], [3:0-8-4	,0-2-8], [3:0-11-	7,0-3-11], [2	22:0-2-0,0-0-0]		•	0.10	0.10.0		
LOADING (psi TCLL 25. TCDL 10. BCLL 0. BCDL 10.	f) 0 0 * 0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 NO PI2014	CSI. TC BC WB Matrix	0.71 0.71 0.89 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.48 14-15 -0.88 14-15 0.31 10 0.44 14-15	l/defl >698 >384 n/a >766	L/d 360 240 n/a 240	PLATES MT20 Weight: 369 lb	GRIP 197/144 FT = 10)%
LUMBER- TOP CHORD BOT CHORD WEBS WEDGE Left: 2x4 SP No	2x6 SP 1-4: 2x6 2x6 SP 8-11,18 2x4 SP 0.3	2400F 2.0E *Except* 5 SP DSS 2400F 2.0E *Except* -19: 2x4 SPF No.2 F No.2				BRACING- TOP CHOR BOT CHOR	D Struc: excep D Rigid 6-0-0 10-0-1	ural wood t end vertic ceiling dire oc bracing) oc bracin	sheathing dir cals, and 2-0 ctly applied c : 2-17. g: 11-13	rectly applied or 5-10- -0 oc purlins (6-0-0 m or 10-0-0 oc bracing,	6 oc purlins, ax.): 4-9. Except:	
REACTIONS.	(size) Max Ho Max Up Max Gr) 10=0-3-8, 2=0-3-8 brz 2=98(LC 5) blift 10=-398(LC 5), 2=-3 av 10=1751(LC 1), 2=1	87(LC 4) 958(LC 1)							INTE OF	MISS	
FORCES. (Ib TOP CHORD) - Max. (2-3=-8 8-9=-7	Comp./Max. Ten All fo 363/180, 3-4=-7596/159 7288/1750, 9-10=-1583/4	rces 250 (lb) or 7, 4-5=-10130/2 414	less except 273, 5-6=-1	when shown. 0130/2273, 6	-8=-10794/2516,					UAN ARCIA	*
BOT CHORD	3-16= 8-13=	-1591/7300, 15-16=-157 -902/310, 10-11=-172/7	78/7176, 14-15= 92	-2552/10794	4, 13-14=-199	3/8216,				PP. NU	MBER	
WEBS	3-17= 6-14=	-39/285, 4-16=-107/990, -360/220, 8-14=-569/262	4-15=-759/311 25, 10-13=-620/	8, 5-15=-39 151, 9-13=-	3/228, 6-15=- 1757/7219	748/263,				0 E-200	0162101	N. N.
 NOTES- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. All plates are 2x4 MT20 unless otherwise indicated. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=398, 2=387. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Contelegret/package/dard ANSi/TPI 1. 												
Design valid a truss syste building des	IG - Verify d d for use on em. Before sign. Bracir	esign parameters and READ NO ly with MiTek® connectors. Th use, the building designer mus ing indicated is to prevent buckli izability and to prevent collapse	DTES ON THIS AND is design is based o it verify the applicab ing of individual trus with possible perce	INCLUDED MI nly upon param ility of design p s web and/or cl	TEK REFERENCI neters shown, and arameters and pr hord members on property damage	E PAGE MII-7473 rev. 5 d is for an individual bu operly incorporate this ly. Additional tempora For general quidance	ilding component design into the o ry and permanen	E USE. , not verall t bracing			8	

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/TPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Lot 109 MN	
						145820635
210533	C9	Half Hip Girder	1	2		
					Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS - 66871,		8	430 s Apr	20 2021 MiTek Industries, Inc. Mon Apr 26 08:37:43 2021	Page 2

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon Apr 26 08:37:43 2021 Page 2 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-uuC0enknGrAECIBeH2SSGKAnKLrrSIrUMqcoVwzMuxM

NOTES-

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- (1) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 63 lb up at 4-11-2, 86 lb down and 63 lb up at 7-0-0, 86 lb down and 63 lb up at 15-0-0, and 87 lb down and 78 lb up at 11-0-0, 86 lb down and 77 lb up at 13-0-0, 87 lb down and 78 lb up at 15-0-0, and 87 lb down and 78 lb up at 19-0-0 on top chord, and 263 lb down and 77 lb up at 4-11-2, 51 lb down at 7-0-0, 51 lb down at 9-0-0, 32 lb down at 11-0-0, and 32 lb down at 13-0-0, and 262 lb down and 101 lb up at 21-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf) Vert: 1-4=-70, 4-9=-70, 2-17=-20, 3-13=-20, 11-12=-20, 10-11=-20

Concentrated Loads (lb)

Vert: 4a-39(B) 7=-48(B) 16=-263(B) 23=-39(B) 24=-39(B) 25=-48(B) 26=-48(B) 27=-48(B) 28=-48(B) 29=-46(B) 30=-46(B) 31=-23(B) 32=-23(B) 33=-22(B) 34=-22(B) 35=-22(B) 35=-22(B) 36=-262(B)

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) 23, 13, 21, 22, 19, 18, 17, 16, 15 except (jt=lb) 14=123.
- 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

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MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=106, 6=151

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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

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

5) 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) except (jt=lb) 8=106, 5=123

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.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

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Job	Truss	Truss Type	Qty	Ply	Lot 109 MN	
						45820639
210533	D4	Roof Special Girder	1	2		
				_	Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS - 66871,		8.	.430 s Apr	20 2021 MiTek Industries, Inc. Mon Apr 26 08:37:48 2021 F	Page 2
		ID:2nc)	KplsxOfbjlE	3617Q?qPI	MzrYWU-Fs?viVow4NpXJ33c3b2dzNudJMZd7ZTDW6JZA7z	MuxH

NOTES-

- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 127 lb down and 83 lb up at 21-11-4, and 127 lb down and 83 lb up at 23-11-4, and 127 lb down and 83 lb up at 23-11-4, and 127 lb down and 852 lb down and 193 lb up at 19-8-8, 49 lb down at 21-11-4, and 49 lb down at 23-11-4, and 262 lb
 - down and 72 lb up at 25-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-2=-70, 2-4=-70, 4-6=-70, 6-8=-70, 12-17=-20, 7-11=-20

Concentrated Loads (lb) Vert: 6=-77(F) 9=-262(F) 19=-77(F) 20=-77(F) 21=-852(F) 22=-38(F) 23=-38(F)

F	5-9-0 10-	-12	19-8-8		23-6-0 24-4-10	30-0-0		
	5-9-0 4-1	-12	8-11-12		3-9-8 0-10-10	5-7-6		
Plate Offsets (X,Y)	[1:0-2-0,0-1-8], [6:0-4-12,Edge], [9:Ed	ge,0-5-13], [13:0-2-8,0-3-0]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.93 BC 0.60 WB 0.85 Matrix-S	DEFL. ir Vert(LL) -0.31 Vert(CT) -0.61 Horz(CT) 0.14 Wind(LL) 0.24	n (loc) / 12-13 > 12-13 > 12-13 > 9 12-13 >	/defl L/d 999 360 581 240 n/a n/a 999 240	PLATES MT20 Weight: 131 lb	GRIP 197/144 FT = 10%	
LUMBER- TOP CHORD 2x4 S 2-4: 2 BOT CHORD 2x4 S 12-15 WEBS 2x3 S 3-14,7	PF No.2 *Except* x6 SPF No.2 PF No.2 *Except* : 2x4 SPF 2100F 1.8E, 5-11: 2x3 SPF PF No.2 *Except* ?-9: 2x4 SPF No.2	BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-15 max.): 4-6. Rigid ceiling directly applied or 9-11-5 oc bracing. 1 Row at midpt 3-14, 4-13					
REACTIONS. (si Max Max Max	ze) 15=0-3-8, 9=0-3-8 Horz 15=-266(LC 4) Jplift 15=-177(LC 9), 9=-247(LC 9) Grav 15=1338(LC 1), 9=1411(LC 1)					INTE OF	MISSO	
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-990/219, 2-3=-1038/190, 3-4=-2695/419, 4-5=-4198/689, 5-6=-4150/691, 6-7=-2206/365, 1-15=-1290/208, 7-9=-1350/274 GARCIA BOT CHORD 13-14=-220/2388, 12-13=-624/4529, 5-12=-378/138, 9-10=-158/532 WEBS 2-14=-51/463, 3-14=-1836/402, 3-13=-123/1301, 4-13=-2426/458, 4-12=-391/62, 10-12=-220/1797, 6-12=-357/2484, 6-10=-418/127, 1-14=-136/1080, 7-10=-88/1369 NUMBER								
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 arin DOL=1.60								
 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 								
7) This truss is design referenced standar8) Graphical purlin rej	ed in accordance with the 2018 Interna d ANSI/TPI 1. presentation does not depict the size of	tional Residential Code sec the orientation of the purlin	ctions R502.11.1 and R8 a along the top and/or bo	02.10.2 and ttom chord.	1	16	5952 Juli	

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

Mitek* 16023 Swingley Ridge Rd Chesterfield, MO 63017

1 1010 0110010 ((,,,,)	[1.0 2 0,0 1 0], [0.0 0 1,0	2 12						
LOADING (ps TCLL 25 TCDL 10 BCLL 0 BCDL 10	sf) i.0 i.0 i.0 i.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES I2014	CSI. TC 0.90 BC 0.50 WB 0.89 Matrix-S	DEFL. in Vert(LL) -0.23 Vert(CT) -0.45 Horz(CT) 0.11 Wind(LL) 0.17	(loc) l/defl 11-12 >999 12-13 >786 8 n/a 11-12 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 130 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD	2x4 SF 2-3: 2x	PF No.2 *Except* 6 SPF No.2			BRACING- TOP CHORD	Structural wood s except end vertica	heathing dire	ectly applied or 2-2-0 o 0 oc purlins (3-0-3 ma)	c purlins, x.): 3-5.
BOT CHORD	2x4 SF 11-14:	PF No.2 *Except* 2x4 SPF 2100F 1.8E, 4-10	0: 2x3 SPF No.2		BOT CHORD WEBS	Rigid ceiling direc 2 Rows at 1/3 pts	tly applied o 3-	r 10-0-0 oc bracing. 13	
WEBS	2x3 SF	PF No.2 *Except*							

REACTIONS. (size) 14=0-3-8. 8=0-3-8 Max Horz 14=-267(LC 4) Max Uplift 14=-176(LC 9), 8=-248(LC 9) Max Grav 14=1334(LC 1), 8=1414(LC 1)

3-13: 2x4 SPF No.2, 6-8: 2x6 SPF No.2

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-1000/216, 2-3=-1084/164, 3-4=-2990/526, 4-5=-2969/522, 5-6=-2148/358, 1-14=-1299/201, 6-8=-1342/288 BOT CHORD 12-13=-394/3391, 11-12=-391/3397, 4-11=-319/141, 8-9=-254/764 2-13=0/415, 3-13=-2682/541, 3-12=0/323, 3-11=-471/18, 9-11=-211/1828, WFBS 5-11=-218/1642, 5-9=-554/141, 1-13=-137/1102, 6-9=-42/1053

NOTES-

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

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=176, 8=248.

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.

April 26,2021

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

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 arip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
- 4) The Fabrication Tolerance at joint 6 = 6%
- 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) except (jt=lb) 17=177, 8=247.

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/TPL1

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

REACTIONS. (size) 15=0-3-8, 9=0-3-8 Max Horz 15=-266(LC 4) Max Uplift 15=-177(LC 9), 9=-247(LC 9) Max Grav 15=1338(LC 1), 9=1411(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-986/220, 2-3=-1019/196, 3-4=-2097/371, 4-5=-2076/407, 5-6=-2287/409, 6-7=-2188/372, 1-15=-1286/210, 7-9=-1346/274 BOT CHORD 13-14=-147/2094, 12-13=-179/1957, 9-10=-132/508 2-14=-66/495, 3-14=-1628/344, 3-13=0/256, 4-12=-11/380, 10-12=-222/1888, WFBS 6-10=-447/134, 1-14=-138/1073, 7-10=-121/1371

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

4) All plates are MT20 plates unless otherwise indicated

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

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 15=177. 9=247.

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

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

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April 26,2021

	5-9-0 9-8-1	0 17-8-10	19-8	-8 22-4-8	26-4-8	30-0-0	
	5-9-0 3-11-	10 8-0-0	1-11-	14 2-7-15	4-0-0	3-7-8	
Plate Offsets (X,Y)	[1:0-2-0,0-1-8], [4:0-4-8,0-1-11], [9:Edg	e,0-5-13], [13:0-5-4,0-2-8]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.94 BC 0.88 WB 0.68 Matrix-S	DEFL. in Vert(LL) -0.20 Vert(CT) -0.39 Horz(CT) 0.10 Wind(LL) 0.09	(loc) l/defl 15-17 >999 15-17 >926 9 n/a 15 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 135 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 S 2-3: 2 BOT CHORD 2x4 S WEBS 2x3 S 7-9: 2	PF No.2 *Except* x6 SPF No.2, 3-4: 2x4 SPF 2100F 1.8E PF No.2 PF No.2 *Except* x4 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood except end verti Rigid ceiling dirr 1 Row at midpt	sheathing dire cals, and 2-0-0 ectly applied or 3-1	ctly applied or 3-3-3 oc purlins (3-9-8 ma 10-0-0 oc bracing. 8	oc purlins, ax.): 3-4.
REACTIONS. (siz Max H Max I Max 0	ze) 9=0-3-8, 19=0-3-8 Horz 19=-266(LC 4) Jplift 9=-247(LC 9), 19=-177(LC 9) Grav 9=1476(LC 2), 19=1409(LC 2)					ULE OF	MISS
FORCES. (lb) - Max TOP CHORD 1-2= 6-7= BOT CHORD 17-1 WEBS 2-18 6-10 4-15	. Comp./Max. Ten All forces 250 (lb) o -1043/220, 2-3=-1036/213, 3-4=-1910/3 -2231/357, 1-19=-1319/211, 7-9=-1400/ 8=-61/1751, 15-17=-60/1756, 14-15=-28 =-108/664, 3-18=-1481/308, 3-17=0/307 I=-625/152, 1-18=-137/1135, 7-10=-207/ =0/569	less except when shown. 30, 4-5=-2186/382, 5-6=-2822/4 260 1/2492, 13-14=-281/2492, 9-10 , 10-13=-268/1973, 6-13=-16/50 1634, 5-13=-24/472, 5-15=-704,	158,)=-59/326 64, /192,			GA NUI	JAN RCIA
 NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; MWFRS (envelope grip DOL=1.60 3) Provide adequate of 4) This truss has beer 5) * This truss has beer will fit between the 6) Provide mechanica 9=247, 19=177. 7) This truss is design referenced standar 	e loads have been considered for this de Vult=115mph (3-second gust) Vasd=91n) gable end zone; cantilever left and righ Irainage to prevent water ponding. In designed for a 10.0 psf bottom chord liv en designed for a live load of 20.0psf on bottom chord and any other members, w I connection (by others) of truss to bearin ed in accordance with the 2018 Internati d ANSI/TPI 1.	esign. hph; TCDL=6.0psf; BCDL=6.0ps exposed ; end vertical left and the load nonconcurrent with any the bottom chord in all areas wh ith BCDL = 10.0psf. Ing plate capable of withstanding onal Residential Code sections	sf; h=25ft; Cat. II; E right exposed; Lun other live loads. here a rectangle 3-f g 100 lb uplift at joir R502.11.1 and R8	xp C; Enclosed; hber DOL=1.60 p 3-0 tall by 2-0-0 w t(s) except (jt=lb) 02.10.2 and	ate ide		GARCIA ENSED

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

REACTIONS. (size) 5=Mechanical, 4=0-3-8 Max Horz 5=114(LC 5) Max Uplift 5=-55(LC 8), 4=-62(LC 8) Max Grav 5=315(LC 1), 4=315(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. BOT CHORD 4-5=-104/301

BOT CHORD 4-5=-104/301 WEBS 2-5=-322/122, 2-4=-327/144

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) Provide adequate drainage to prevent water ponding.

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

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

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

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

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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- 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) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017


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

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

5) Bearing at joint(s) 10 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) 10, 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.

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







- bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-70, 2-4=-70, 4-5=-70, 8-9=-20, 6-8=-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



April 26

Job	Truss	Truss Type	Qty	Ply	Lot 109 MN	
						145820648
210533	E4	Half Hip Girder	1	1		
					Job Reference (optional)	
Wheeler Lumber, Way	verly, KS - 66871,		. 8	.430 s Apr	20 2021 MiTek Industries, Inc. Mon Apr 26 08:37:58 2021	Page 2

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon Apr 26 08:37:58 2021 Page 2 ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-ynchovwBkS36WcqXfiDzNUI04OwRTDpipfk5XYzMux7

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 7=-251(B) 4=-48(B) 10=-48(B) 11=-22(B)





1	2-0-0 4-0	0	8-0-0	10-0-0	12-0-0	1
I	2-0-0 2-0	0	4-0-0	2-0-0	2-0-0	1
Plate Offsets (X,Y)	[3:0-4-8,0-0-12], [4:0-4-4,0-2-12	, [5:0-3-0,0-2-4], [6:0-4-8,0-0-12]]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0- Plate Grip DOL 1.11 Lumber DOL 1.11 Rep Stress Incr NC Code IRC2018/TPI2014	CSI. TC 0.71 BC 0.72 WB 0.12 Matrix-S	DEFL. ir Vert(LL) -0.09 Vert(CT) -0.16 Horz(CT) 0.15 Wind(LL) 0.07	n (loc) l/defl L/d 10-11 >999 360 10-11 >863 240 7 n/a n/a 10-11 >999 240	PLATES MT20 Weight: 45 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x6 SF 4-5: 2x POT CHORD 2x4 SF	PF No.2 *Except* (4 SPF No.2		BRACING- TOP CHORD	Structural wood sheathing dire	ectly applied or 3-10-	14 oc purlins,
WEBS 2x3 SE	2F N0.2 2F No 2		BOT CHORD	2-0-0 oc puriins (3-9-0 max.):	4-5. r 6-0-0 oc bracing	

REACTIONS. (size) 2=0-3-8, 7=0-3-8 Max Horz 2=-37(LC 9) Max Uplift 2=-166(LC 8), 7=-166(LC 9) Max Grav 2=935(LC 1), 7=935(LC 1)

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

TOP CHORD 2-3=-495/115, 3-4=-2137/388, 4-5=-2041/379, 5-6=-2139/386, 6-7=-495/111

BOT CHORD 3-11=-327/2015, 10-11=-326/2040, 6-10=-324/2017

WEBS 4-11=0/317, 5-10=-8/338

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=166, 7=166.
- 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) 80 lb down and 61 lb up at 4-0-0, and 85 lb down and 61 lb up at 6-0-0, and 80 lb down and 61 lb up at 8-0-0 on top chord, and 236 lb down and 72 lb up at 4-0-0, and 39 lb down at 6-0-0, and 236 lb down and 72 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-4=-70, 4-5=-70, 5-8=-70, 2-12=-20, 3-6=-20, 7-9=-20

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	Lot 109 MN	
					145820	.0649
210533	G1	Hip Girder	1	1	Joh Deference (optional)	
					Job Reference (optional)	
Wheeler Lumber, Wa	verly, KS - 66871,		8	.430 s Apr	20 2021 MiTek Industries, Inc. Mon Apr 26 08:37:59 2021 Page 2	2

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon Apr 26 08:37:59 2021 Page 2 ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-QzA3?FxpVIBz7mPjDPkCwirWOoITCkrr1JUe3_zMux6

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 4=-44(F) 5=-44(F) 11=-236(F) 10=-236(F) 13=-44(F) 14=-37(F)





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		6-0-7 6-0-7		
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.51	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.05 4-5 >999 360 MT20 197/144	
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO	BC 0.31 WB 0.00	Vert(CT) -0.10 4-5 >713 240 Horz(CT) -0.00 4 n/a n/a Wind(L) 0.014 4.5 000 240	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240 Weight: 18 lb F I = 10%	

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

- 2x3 SPF No.2
- REACTIONS. 5=0-4-9, 4=Mechanical (size) Max Horz 5=111(LC 5) Max Uplift 5=-110(LC 4), 4=-54(LC 8) Max Grav 5=379(LC 1), 4=250(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-332/152

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=110.
- 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) 78 lb down and 46 lb up at 3-0-14, and 67 lb down and 43 lb up at 3-6-3 on top chord, and 6 lb down at 3-0-14, and 6 lb down at 3-6-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 8=-1(F) 9=-0(B)



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BRACING-TOP CHORD

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

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



				2-2-5			1			
LOADING (psf) S TCLL 25.0 P TCDL 10.0 L BCLL 0.0 * R BCDL 10.0 C	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Jode IRC2018/TPI2014	CSI. TC BC WB Matrix	0.07 0.03 0.00 -R	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.00 -0.00 -0.00 0.00	(loc) 5 4-5 3 5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 7 lb	GRIP 197/144 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 2-2-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=51(LC 8)

Max Uplift 5=-23(LC 8), 3=-37(LC 8) Max Grav 5=176(LC 1), 3=55(LC 1), 4=38(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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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) 92 lb down and 85 lb up at 3-11-6 on top chord, and 261 lb down and 72 lb up at 3-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

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

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-4=-70, 5-7=-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



April 26,2021

Job	Truss	Truss Type	Qty	Ply	Lot 109 MN	
040500	10	lask Olasad Ordan				145820653
210533	J3	Jack-Closed Girder	1	1	Job Reference (optional)	
Wheeler Lumber Wey	arky KC 66071			120 a Apr	20 2021 MiTak Industrias, Inc. Man Apr 26 09:29:10 2021	Dege 2

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon Apr 26 08:38:19 2021 Page 2 ID:2ncXplsxOfbjlB6I7Q?gPMzrYWU-rqNdC5AMnvj7XqxZOc5vjwg2xsGiulZneRKilqzMuwo

LOAD CASE(S) Standard Concentrated Loads (Ib) Vert: 6=-261(F) 3=-81(F)





		2-11-10			2-11-1	0			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.47 BC 0.29 WB 0.00 Matrix-R	DEFL. Vert(LL) Vert(CT Horz(CT Wind(LL	in -0.05) -0.10) -0.00) 0.02	(loc) 4-5 4-5 4 4-5	l/defl >999 >700 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 18 lb	GRIP 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

- WEBS 2x3 SPF No.2
- REACTIONS. 5=0-3-8, 4=Mechanical (size) Max Horz 5=116(LC 7) Max Uplift 5=-11(LC 8), 4=-24(LC 8) Max Grav 5=332(LC 1), 4=252(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-289/52

NOTES-

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

MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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

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

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



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

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

except end verticals.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



		5-11-4		
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014	CSI. TC 0.55 BC 0.32 WB 0.00 Matrix-R	DEFL. in (lc Vert(LL) -0.05 4 Vert(CT) -0.12 4 Horz(CT) 0.04 Wind(LL) 0.04	oc) l/defl L/d 4-5 >999 360 4-5 >583 240 3 n/a n/a 4-5 >999 240	PLATES GRIP MT20 197/144 Weight: 16 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=89(LC 8) Max Uplift 3=-61(LC 8) Max Grav 5=334(LC 1), 3=184(LC 1), 4=110(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-289/44

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

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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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		2-8-5 2-8-5		5-11-4 3-2-15	-4 5			
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 0.55 BC 0.29 WB 0.00 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (lo -0.05 4 -0.12 4 0.05 0.04	oc) 1/0 4-5 >9 4-5 >5 4 5 >9	defl L/d 999 360 569 240 n/a n/a 999 240	PLATES MT20 Weight: 16 lb	GRIP 197/144 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 6-0-0 oc bracing.

REACTIONS. 6=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 6=89(LC 8) Max Uplift 3=-62(LC 8) Max Grav 6=334(LC 1), 3=185(LC 1), 4=110(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-6=-288/43

NOTES-

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

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

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

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

5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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

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



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BRACING-TOP CHORD

BOT CHORD

	-		
LUMBER-			
TOP CHORD	2x4 SP	F No.2	

BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 *Except* WEBS 2-8: 2x6 SPF No.2

REACTIONS. (size) 8=0-3-8, 6=Mechanical Max Horz 8=94(LC 22) Max Uplift 8=-95(LC 8), 6=-121(LC 5) Max Grav 8=452(LC 1), 6=471(LC 1)

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

2-8=-617/169, 2-3=-751/184, 3-4=-555/201 TOP CHORD

BOT CHORD 7-8=-189/608. 6-7=-136/387

WEBS 4-6=-432/147

NOTES

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

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.

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

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

6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 6=121.

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

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

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down and 87 lb up at 3-11-6 on top chord, and 256 lb down and 72 lb up at 3-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

Continued on page 2

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



Structural wood sheathing directly applied or 5-9-11 oc purlins,

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

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





Job	Truss	Truss Type	Qty	Ply	Lot 109 MN	
						145820658
210533	J8	Jack-Closed Girder	1	1		
					Job Reference (optional)	
Wheeler Lumber, Wav	erly, KS - 66871,		8	.430 s Apr	20 2021 MiTek Industries, Inc. Mon Apr 26 08:38:23 2021	Page 2

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LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-5=-70, 7-8=-20, 6-7=-20 Concentrated Loads (lb) Vert: 4=-86(B) 9=-256(B)





					4-0	-10				6-0-7		
					4-0	-10				1-11-13	I	
Plate Off	sets (X,Y)	[7:0-2-2.Edge]										
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	0.40	Vert(LL)	-0.02	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	k-S	Wind(LL)	0.01	6	>999	240	Weight: 19 lb	FT = 10%

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

 BOT CHORD
 2x4 SPF No.2
 TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

 WEBS
 2x3 SPF No.2 *Except* 2-7: 2x6 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-11, 5=Mechanical Max Horz 7=96(LC 22) Max Uplift 7=-114(LC 4), 5=-55(LC 8) Max Grav 7=386(LC 1), 5=243(LC 1)

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

TOP CHORD 2-7=-409/152, 2-3=-401/80

BOT CHORD 6-7=-112/340, 5-6=-104/312

WEBS 3-5=-327/113

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=114.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 51 lb up at 3-0-13, and 68 lb down and 44 lb up at 3-6-3 on top chord, and 7 lb down at 3-0-13, and 7 lb down at 3-6-3 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

 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

ven. 1-2=-70, 2-4=-70, 0-7=-20, 5-0=-20

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	Job	Truss	Truss Type	Qty	Ply	Lot 109 MN	
	040500	10	Dis source le lie Girden				145820659
	210533	19	Diagonal Hip Girder	1	1	Job Reference (optional)	
ľ	M/haalaal			0	100 - 1	00 0004 MT-L laduatria la Mar Ara 00 00:00:04 0004	D 0

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon Apr 26 08:38:24 2021 Page 2 ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-BnAWFoEVcRLQdcqXA9h4QzNtstyHZ2rWni1TR2zMuwj

LOAD CASE(S) Standard Concentrated Loads (Ib) Vert: 10=-4(B) 11=-0(F)





LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in ((loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-2-6 oc purlins, except end verticals.

BOT CHORD

REACTIONS.

5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=51(LC 8) Max Uplift 5=-22(LC 8), 3=-38(LC 8)

Max Grav 5=177(LC 1), 3=56(LC 1), 4=38(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) 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.
- 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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Rigid ceiling directly applied or 6-0-0 oc bracing.



LOADING (psf) TCLL 25.0 TCDL 10.0)))	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.08 0.05	DEFL. Vert(LL) Vert(CT)	in -0.00 -0.00	(loc) 3-4 3-4	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL 0.0 BCDL 10.0) *)	Rep Stress Incr Code IRC2018/TP	YES 12014	WB Matrix	0.00 -R	Horz(CT) Wind(LL)	0.00	2 3-4	n/a >999	n/a 240	Weight: 6 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 2-6-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 2=Mechanical, 3=Mechanical Max Horz 4=36(LC 5) Max Uplift 4=-4(LC 8), 2=-42(LC 8)

Max Grav 4=105(LC 1), 2=77(LC 1), 3=45(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) 4 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, 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



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 4-11-4 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=75(LC 8) Max Uplift 5=-16(LC 8), 2=-79(LC 8) Max Grav 5=215(LC 1), 2=156(LC 1), 3=91(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) 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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			3-11-4	
	SPACING. 2-0-0	CSI		GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) -0.01 4-5 >999 360 MT20	197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES 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 3-11-4 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=87(LC 8)

Max Uplift 5=-27(LC 8), 3=-68(LC 8)

Max Grav 5=247(LC 1), 3=118(LC 1), 4=72(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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			3-11-4							
Plate Offsets (X,Y)	late Offsets (X,Y) [2:0-5-8,Edge], [3:0-6-8,Edge], [4:Edge,0-2-8]									
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.30 BC 0.26	DEFL. Vert(LL) - Vert(CT) -	in (l -0.01 -0.01	(loc) l/ 2-4 > 2-4 >	/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NO Code IRC2018/TPI2014	WB 0.11 Matrix-R	Horz(CT) - Wind(LL)	-0.00 0.01	6 2-4 >	n/a >999	n/a 240	Weight: 16 lb	FT = 10%	
LUMBER-			BRACING-							

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x6 SPF No.2 WEBS 2x3 SPF No.2 OTHERS 2x4 SPF No.2 WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 2=0-3-8, 6=Mechanical Max Horz 2=74(LC 8) Max Uplift 2=-66(LC 8), 6=-81(LC 8) Max Grav 2=390(LC 1), 6=282(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 3) will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 295 lb down and 75 lb up at
- 2-0-0 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: 1-3=-70, 2-4=-20 Concentrated Loads (lb) Vert: 7=-295(B)



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Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.





			1		3-5-3		1		6	6-0-0	1	
			1		3-5-3		1		2	-6-13		
Plate Of	fsets (X,Y)	[6:0-3-4,0-3-4]										
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.04	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.06	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.03	6	>999	240	Weight: 19 lb	FT = 10%

- TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2WEBS2x3 SPF No.2
 - BS 2x3 SPF No.2 2x3 SPF No.2 *Except* 2-7: 2x4 SPF No.2

BRACING-TOP CHORD Structural wood sh except end vertica BOT CHORD Rigid ceiling direct

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) 7=0-3-11, 5=Mechanical Max Horz 7=95(LC 5) Max Uplift 7=-121(LC 4), 5=-67(LC 8) Max Grav 7=394(LC 1), 5=260(LC 1)

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

TOP CHORD 2-7=-443/165, 2-3=-495/128

BOT CHORD 6-7=-146/435. 5-6=-136/387

WEBS 3-5=-366/147

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=121.
- 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 26 lb up at 2-11-11, and 68 lb down and 44 lb up at 3-6-3 on top chord, and 34 lb down and 30 lb up at 2-11-11, and 7 lb down at 3-5-3 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

 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

ven. 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20

Continued on page 2

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



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Job	Truss	Truss Type	Qty	Ply	Lot 109 MN	
						145820665
210533	J15	DIAGONAL HIP GIRDER	1	1	Joh Deference (antional)	
					Job Reference (optional)	
Wheeler Lumber, Wa	verly, KS - 66871,		8	.430 s Apr	20 2021 MiTek Industries, Inc. Mon Apr 26 08:38:06 2021	Page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 6=-0(B) 9=-30(F)





			2-3-8	1	1-7-1	2	1		
LOADING	6 (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.21	DEFL. in Vert(LL) -0.07	n (loc) 5	l/defl >999	L/d 360	PLATES G	RIP 97/144
TCDL BCLL	10.0 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.12 WB 0.00	Vert(CT) -0.02 Horz(CT) -0.07	2 5	>999 n/a	240 n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0 ⁴	5-6	>999	240	Weight: 11 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 3-11-4 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=86(LC 8) Max Uplift 6=-25(LC 8), 3=-70(LC 8)

Max Grav 6=247(LC 1), 3=118(LC 1), 4=72(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) 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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	ŀ		4-11-4	
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 0.35 BC 0.21 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.02 4-5 >999 360 Vert(CT) -0.05 4-5 >999 240 Horz(CT) 0.02 3 n/a n/a Wind(LL) 0.02 4-5 >999 240	PLATES GRIP MT20 197/144 Weight: 13 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 4-11-4 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=90(LC 8) Max Uplift 5=-41(LC 8), 3=-77(LC 8)

Max Grav 5=290(LC 1), 3=151(LC 1), 4=91(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-252/83

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) The Fabrication Tolerance at joint 5 = 2%, joint 5 = 2%

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 4) will fit between the bottom chord and any other members.

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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-	-9-8 -9-8	+ 3-11-4 + 1-1-12		
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc) l/defl	L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.01	1 3-6 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.03	3 3-6 >999	240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.02	2 5 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.02	2 3-6 >999	240	Weight: 13 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 3-11-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 8=0-3-8, 4=Mechanical, 5=Mechanical (size) Max Horz 8=87(LC 8) Max Uplift 8=-18(LC 8), 4=-54(LC 8)

Max Grav 8=263(LC 1), 4=109(LC 1), 5=91(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) 8, 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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		2-2-6					
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014 14	CSI. TC 0.07 BC 0.03 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00 Wind(LL) 0.00	(loc) 5 4-5 3 5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 7 lb	GRIP 197/144 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 2-2-6 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=52(LC 8)

Max Uplift 5=-23(LC 8), 3=-37(LC 8)

Max Grav 5=176(LC 1), 3=56(LC 1), 4=38(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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				2-6-0	
LOADIN TCLL TCDL BCLL	G (psf) 25.0 10.0 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.06 BC 0.04 WB 0.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.00 4-5 >999 360 MT20 197/144 Vert(CT) -0.00 3 n/a n/a MT20 197/144	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240 Weight: 7 lb FT = 10%	

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 2-6-0 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=48(LC 8)

Max Uplift 5=-31(LC 4), 3=-38(LC 8) Max Grav 5=188(LC 1), 3=67(LC 1), 4=44(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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	0- <u>0-7</u> 0- 0-7	4-2-8 4-2-1	<u>6-0-0</u> 1-9-8	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. DEFL. TC 0.41 Vert(LL) BC 0.33 Vert(CT) WB 0.03 Horz(CT) Matrix-R Wind(LL)	in (loc) I/defl L/d PLATES -0.06 3-6 >999 360 MT20 -0.11 3-6 >628 240 0.06 5 n/a n/a 0.06 3-6 >999 240 Weight:	5 GRIP 197/144 20 lb FT = 10%

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

WEBS 2x3 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 10-0-0 oc bracing.

REACTIONS. (size) 8=0-4-9, 5=Mechanical Max Horz 8=94(LC 5) Max Uplift 8=-108(LC 4), 5=-56(LC 8) Max Grav 8=377(LC 1), 5=248(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-8=-345/139

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=108.
- 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) 78 lb down and 46 lb up at 3-0-14, and 67 lb down and 43 lb up at 3-6-3 on top chord, and 6 lb down at 3-0-14, and 6 lb down at 3-6-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard

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

Vert: 11=-1(F) 12=-0(B)







			4-11-4		—
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.34 BC 0.20 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.02 Vert(CT) -0.05 Horz(CT) 0.02 Wind(LL) 0.02	(loc) l/defl L/d 4-5 >999 360 4-5 >999 240 3 n/a n/a 4-5 >999 240	PLATES GRIP MT20 197/144 Weight: 13 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=89(LC 8) Max Uplift 5=-41(LC 8), 3=-74(LC 8)

Max Grav 5=292(LC 1), 3=147(LC 1), 4=89(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-255/85

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.

WILL PROM GARCIA NUMBER F -2000162101 VALE UNIT 8 3 GIT E ONAL

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

except end verticals.

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



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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 109 MN	
						145820673
210533	J23	Jack-Closed Girder	1	1		
					Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS - 66871,		8	430 s Apr	20 2021 MiTek Industries, Inc. Mon Apr 26 08:38:14 2021	Page 2

ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-Usak9O6EzM4rQ33cb3Wj0szAqrXFDVX2U9cx4dzMuwt

LOAD CASE(S) Standard

Concentrated Loads (Ib) Vert: 2=-859(B) 8=-860(B)





LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=51(LC 8)

Max Uplift 5=-21(LC 8), 3=-39(LC 8) Max Grav 5=176(LC 1), 3=56(LC 1), 4=38(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) 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.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Plate Offsets ((X,Y)	[6:0-0-8,0-2-8]											
LOADING (ps TCLL 25 TCDL 10 BCLL 0 BCDL 10	sf) 5.0 9.0 9.0 * 9.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matrii	0.07 0.04 0.00 x-R	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.00 -0.00 -0.00 0.00	(loc) 3 6-7 4 3	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 9 lb	GRIP 197/144 FT = 10%	
LUMBER-						BRACING-							

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

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

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 6=Mechanical

Max Horz 7=46(LC 8) Max Uplift 7=-27(LC 4), 4=-17(LC 8), 6=-4(LC 8) Max Grav 7=191(LC 1), 4=43(LC 1), 6=81(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) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd Chesterfield, MO 63017



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

BRACING-TOP CHORD

BOT CHORD

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

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

Max Horz 5=39(LC 8)

Max Uplift 5=-33(LC 4), 3=-28(LC 8) Max Grav 5=168(LC 1), 3=46(LC 1), 4=33(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.



F MIS

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	F	2-0-0			2-0-0	0			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.19 BC 0.15 WB 0.01 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.03 0.01 0.01	(loc) 6 7 5 6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 13 lb	GRIP 197/144 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 4-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 8=0-3-8, 4=Mechanical, 5=Mechanical (size) Max Horz 8=74(LC 8) Max Uplift 8=-27(LC 8), 4=-53(LC 8) Max Grav 8=265(LC 1), 4=114(LC 1), 5=79(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-8=-254/49

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.
- 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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			31-1-13		
			31-1-13		
Plate Offsets (X,Y)	[5:0-1-10,Edge], [15:0-1-10,Edge]				
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 0.05 BC 0.03 WB 0.10 Matrix-S	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.01	n (loc) l/defl L/d a - n/a 999 a - n/a 999 19 n/a n/a	PLATES GRIP MT20 197/144 Weight: 157 lb FT = 10%
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4 OTHERS 2x4	SPF No.2 SPF No.2 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire 2-0-0 oc purlins (6-0-0 max.): : Rigid ceiling directly applied o	ectly applied or 6-0-0 oc purlins, except 5-15. r 10-0-0 oc bracing.

24 4 4 2

REACTIONS. All bearings 31-1-13.

Max Horz 1=-165(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 35, 33, 32, 31, 30, 29, 28, 26, 25, 24, 22, 20 except 34=-112(LC 8), 21=-114(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 19, 35, 34, 33, 32, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21.20

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) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 19, 35, 33, 32, 31, 30, 29, 28, 26, 25, 24, 22, 20 except (jt=lb) 34=112, 21=114.

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.



April 26,2021

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referenced standard ANSI/TPI 1.





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- 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) 15, 12 except (jt=lb) 8=119, 13=104, 14=110, 11=106, 10=103, 9=118.
- 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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TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD OTHERS 2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-9.

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

REACTIONS. All bearings 13-4-6.

Max Horz 1=280(LC 8) (lb) -

1-2=-376/171

Max Uplift All uplift 100 lb or less at joint(s) 9, 12, 14, 13, 11, 10 except 1=-119(LC 6), 16=-139(LC 8), 15=-193(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 9, 12, 16, 15, 14, 13, 11, 10 except 1=296(LC 8)

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

NOTES-

TOP CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 12, 14, 13, 11, 10 except (jt=lb) 1=119, 16=139, 15=193.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 11, 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 26,2021





15

14 3x4 //

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

16



[6:0-1-4,Edge], [10:0-0-12,0-1-8] SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-10. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 5-14

PLATES

Weight: 92 lb

MT20

GRIP

11111

197/144

FT = 10%

11

l/defl

n/a

n/a

n/a

L/d

999

999

n/a

12

13

16-2-5

8-3-15

in (loc)

n/a

n/a

10

-0.01

15.60 12

5

10-9-

All bearings 16-2-5. REACTIONS.

Plate Offsets (X,Y)--

25.0

10.0

0.0

10.0

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

OTHERS

Max Horz 1=430(LC 8) (lb) -

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 10, 15, 14, 13, 12, 11 except 1=-136(LC 6), 18=-180(LC 8), 17=-168(LC 8), 16=-188(LC 8)

17

7-10-6

7-10-6

0.07

0.03

0.19

CSI.

тс

BC

WB

Matrix-S

15.60 12

0-9-15

3x4 1 18

2-0-0

1.15

1.15

YES

Max Grav All reactions 250 lb or less at joint(s) 10, 15, 18, 17, 16, 14, 13, 12, 11 except 1=404(LC 8)

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

TOP CHORD 1-2=-525/234, 2-3=-353/161

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

5) Gable requires continuous bottom chord bearing.

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

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

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 15, 14, 13, 12, 11 except (jt=lb) 1=136, 18=180, 17=168, 16=188.

9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 14, 13, 12, 11.

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

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



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Job	Truss	Truss Type	Qty	Ply	Lot 109 MN	
						145820685
210533	R1	Flat Girder	1	2		
				_	Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS - 66871,		8	.430 s Apr	20 2021 MiTek Industries, Inc. Mon Apr 26 08:38:35 2021	Page 2

ID:2ncXplsxOfbjIB6I7Q?gPMzrYWU-NvLgZZMP0pksSI9eJzOfNIKfuJkoe1U8JwCYKvzMuwY

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 5=-1181 6=-1168 7=-1168





LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.19 BC 0.10 WB 0.05 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT) -(in (lo n/a n/a).00	oc) l/defl - n/a - n/a 4 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 18 lb	GRIP 197/144 FT = 10%
	L		BBACING.					

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=7-0-14, 4=7-0-14, 5=7-0-14

Max Horz 1=115(LC 5) Max Uplift 4=-27(LC 8), 5=-98(LC 8)

Max Grav 1=61(LC 16), 4=142(LC 1), 5=370(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-288/148 WEBS

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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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Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.





Wint PRUM JUAN GARCIA NUMBER F -2000162101 0 ONALL JUAN GARCY ICENSE 160 JGI mini



	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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	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/TI	PI2014	Matri	x-P						Weight: 11 lb	FT = 10%
LUMBER	2-					BRACING					-1	

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2 REACTIONS. (size)

1=4-8-2, 3=4-8-2 Max Horz 1=71(LC 5) Max Uplift 1=-25(LC 8), 3=-40(LC 8) Max Grav 1=174(LC 1), 3=174(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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



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Structural wood sheathing directly applied or 4-8-11 oc purlins,

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

except end verticals.

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



2x4 ⋍

Plate Offsets (X,Y)	[2:Edge,0-1-15]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.03 BC 0.02 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a Weight: 5 lb FT = 10%
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S	PF No.2 PF No.2		BRACING- TOP CHORD Structural wood sheathing directly applied or 2-3-14 oc purlins, except end verticals.

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

REACTIONS. (size) 1=2-3-5, 3=2-3-5

2x3 SPF No.2

Max Horz 1=27(LC 5)Max Uplift 1=-10(LC 8), 3=-15(LC 8)

Max Uplift 1=-10(LC 8), 3=-15(LC 8) Max Grav 1=66(LC 1), 3=66(LC 1)

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

NOTES-

WEBS

 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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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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P						Weight: 18 lb	FT = 10%
LUMBER	۶-					BRACING					1	

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=7-0-13, 4=7-0-13, 5=7-0-13

Max Horz 1=114(LC 5) Max Uplift 4=-27(LC 8), 5=-98(LC 8)

Max Grav 1=61(LC 16), 4=142(LC 1), 5=370(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 2-5=-287/148 WEBS

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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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Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Wint PRUM JUAN GARCIA NUMBER F -2000162101 0 /ONALN JUAN GARCY ICENSE 160 4000 April 26,2021



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	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/TP	912014	Matri	x-P						Weight: 11 lb	FT = 10%

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

WEBS 2x3 SPF No.2

REACTIONS. 1=4-8-0, 3=4-8-0 (size) Max Horz 1=71(LC 5) Max Uplift 1=-25(LC 8), 3=-40(LC 8) Max Grav 1=174(LC 1), 3=174(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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



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





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BRACING-TOP CHORD

Structural wood sheathing directly applied or 4-8-10 oc purlins, except end verticals.

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



2x4 💋

Plate Offsets (X,Y)	[2:Edge,0-2-0]	1	I	1
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.03 BC 0.02 WB 0.00 Matrix-P	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 197/144 Weight: 5 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP	PF No.2 PF No.2		BRACING- TOP CHORD Structural wood sheathing di except end verticals.	rectly applied or 2-3-13 oc purlins,

BOT CHORD

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

REACTIONS. (size) 1=2-3-3, 3=2-3-3

2x3 SPF No.2

Max Horz 1=27(LC 5) Max Uplift 1=-10(LC 8), 3=-15(LC 8)

Max Grav 1=66(LC 1), 3=66(LC 1)

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

NOTES-

WEBS

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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 4) will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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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16023 Swingley Ridge Rd Chesterfield, MO 63017





