March 12, 2021

DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 04/06/2021

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW**

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

RE: 210331 Lot 102 RR

Site Information:

Customer: Project Name: 210331 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2018/TPI2014 Wind Code: N/A Roof Load: 45.0 psf

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

This package includes 111 individual, dated Truss Design Drawings and 0 Additional Drawings.

No	Seel#	Truco Nomo	Data	No	Sool#	Truce Nome	Data
INO.		Truss marrie		INO.			Dale
1	145167659	A1	3/12/2021	21	145167679	C10	3/12/2021
2	l45167660	A2	3/12/2021	22	l45167680	D1	3/12/2021
3	l45167661	A3	3/12/2021	23	l45167681	D2	3/12/2021
4	l45167662	A4	3/12/2021	24	145167682	D3	3/12/2021
5	l45167663	A5	3/12/2021	25	145167683	D4	3/12/2021
6	l45167664	A6	3/12/2021	26	145167684	E1	3/12/2021
7	l45167665	B1	3/12/2021	27	145167685	E2	3/12/2021
8	l45167666	B2	3/12/2021	28	145167686	E3	3/12/2021
9	l45167667	B3	3/12/2021	29	145167687	E4	3/12/2021
10	l45167668	B4	3/12/2021	30	145167688	E5	3/12/2021
11	l45167669	B5	3/12/2021	31	145167689	G1	3/12/2021
12	l45167670	C1	3/12/2021	32	145167690	G2	3/12/2021
13	l45167671	C2	3/12/2021	33	l45167691	G3	3/12/2021
14	l45167672	C3	3/12/2021	34	145167692	G4	3/12/2021
15	l45167673	C4	3/12/2021	35	145167693	G5	3/12/2021
16	l45167674	C5	3/12/2021	36	145167694	G6	3/12/2021
17	l45167675	C6	3/12/2021	37	l45167695	G7	3/12/2021
18	l45167676	C7	3/12/2021	38	l45167696	G8	3/12/2021
19	l45167677	C8	3/12/2021	39	145167697	G9	3/12/2021
20	l45167678	C9	3/12/2021	40	l45167698	G10	3/12/2021

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

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

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

Kansas COA: E-943

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



Garcia, Juan





RE: 210331 - Lot 102 RR

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

04/06/2021

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

Site Information:

City, County:

Project Customer: Project Name: 210331 Lot/Block: Address:

Subdivision:

State:

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
41	l45167699	H1	3/12/2021	85	145167743	J41	3/12/2021
42	l45167700	H2	3/12/2021	86	145167744	J42	3/12/2021
43	l45167701	H3	3/12/2021	87	145167745	J43	3/12/2021
44	l45167702	H4	3/12/2021	88	145167746	J44	3/12/2021
45	l45167703	J1	3/12/2021	89	145167747	J45	3/12/2021
46	l45167704	J2	3/12/2021	90	145167748	J46	3/12/2021
47	l45167705	J3	3/12/2021	91	145167749	J47	3/12/2021
48	l45167706	J4	3/12/2021	92	145167750	J48	3/12/2021
49	l45167707	J5	3/12/2021	93	l45167751	LAY1	3/12/2021
50	l45167708	J6	3/12/2021	94	l45167752	LAY2	3/12/2021
51	l45167709	J7	3/12/2021	95	145167753	LAY3	3/12/2021
52	l45167710	J8	3/12/2021	96	145167754	LAY4	3/12/2021
53	l45167711	J9	3/12/2021	97	145167755	LAY5	3/12/2021
54	l45167712	J10	3/12/2021	98	145167756	LAY6	3/12/2021
55	l45167713	J11	3/12/2021	99	145167757	LAY7	3/12/2021
56	l45167714	J12	3/12/2021	100	l45167758	LAY8	3/12/2021
57	l45167715	J13	3/12/2021	101	l45167759	LAY9	3/12/2021
58	l45167716	J14	3/12/2021	102	l45167760	R1	3/12/2021
59	l45167717	J15	3/12/2021	103	l45167761	V1	3/12/2021
60	l45167718	J16	3/12/2021	104	l45167762	V2	3/12/2021
61	l45167719	J17	3/12/2021	105	l45167763	V3	3/12/2021
62	l45167720	J18	3/12/2021	106	145167764	V4	3/12/2021
63	l45167721	J19	3/12/2021	107	145167765	V5	3/12/2021
64	l45167722	J20	3/12/2021	108	145167766	V6	3/12/2021
65	l45167723	J21	3/12/2021	109	145167767	V7	3/12/2021
66	l45167724	J22	3/12/2021	110	145167768	V8	3/12/2021
67	l45167725	J23	3/12/2021	111	145167769	V9	3/12/2021
68	l45167726	J24	3/12/2021				
69	l45167727	J25	3/12/2021				
70	l45167728	J26	3/12/2021				
71	l45167729	J27	3/12/2021				
72	l45167730	J28	3/12/2021				
73	l45167731	J29	3/12/2021				
74	l45167732	J30	3/12/2021				
75	145167733	J31	3/12/2021				
76	l45167734	J32	3/12/2021				
77	l45167735	J33	3/12/2021				
78	145167736	J34	3/12/2021				
79	145167737	J35	3/12/2021				
80	145167738	J36	3/12/2021				
81	145167739	J37	3/12/2021				
82	145167740	J38	3/12/2021				
83	145167741	J39	3/12/2021				
84	145167742	J40	3/12/2021				

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

04/06/2021

RE: 210331 Lot 102 RR

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

This package includes 111 individual, dated Truss Design Drawings and 0 Additional Drawings.

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4 5	145167663	Δ5	3/12/2021	24 25	145167683	D3	3/12/2021
6	145167664	A5 A6	3/12/2021	25	145167684	E1	3/12/2021
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q	145167667	B3	3/12/2021	20	145167687	F4	3/12/2021
10	145167668	B0 B4	3/12/2021	30	145167688	E5	3/12/2021
11	145167669	B5	3/12/2021	31	145167689	G1	3/12/2021
12	145167670	C1	3/12/2021	32	145167690	G2	3/12/2021
12	145167671	C2	3/12/2021	33	145167691	G2 G3	3/12/2021
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16	145167674	C5	3/12/2021	36	145167694	C6	3/12/2021
17	145167675	C6	3/12/2021	37	145167695	G0 G7	3/12/2021
10	145167676	C0 C7	3/12/2021	20	145167606	G	3/12/2021
10	145107070	C1	3/12/2021	20	145107090	68	3/12/2021
19	140107077	C0	3/12/2021	39	140107037	G9 C10	2/12/2021
20	14310/0/0	69	3/12/2021	40	140107090	GIU	3/12/2021

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

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

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

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



Garcia, Juan





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04/06/2021

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49	l45167707	J5	3/12/2021	93	l45167751	LAY1	3/12/2021
50	l45167708	J6	3/12/2021	94	l45167752	LAY2	3/12/2021
51	l45167709	J7	3/12/2021	95	145167753	LAY3	3/12/2021
52	l45167710	J8	3/12/2021	96	145167754	LAY4	3/12/2021
53	l45167711	J9	3/12/2021	97	145167755	LAY5	3/12/2021
54	l45167712	J10	3/12/2021	98	145167756	LAY6	3/12/2021
55	l45167713	J11	3/12/2021	99	145167757	LAY7	3/12/2021
56	l45167714	J12	3/12/2021	100	l45167758	LAY8	3/12/2021
57	l45167715	J13	3/12/2021	101	l45167759	LAY9	3/12/2021
58	l45167716	J14	3/12/2021	102	l45167760	R1	3/12/2021
59	l45167717	J15	3/12/2021	103	l45167761	V1	3/12/2021
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62	l45167720	J18	3/12/2021	106	145167764	V4	3/12/2021
63	l45167721	J19	3/12/2021	107	145167765	V5	3/12/2021
64	l45167722	J20	3/12/2021	108	145167766	V6	3/12/2021
65	l45167723	J21	3/12/2021	109	145167767	V7	3/12/2021
66	l45167724	J22	3/12/2021	110	145167768	V8	3/12/2021
67	l45167725	J23	3/12/2021	111	145167769	V9	3/12/2021
68	l45167726	J24	3/12/2021				
69	l45167727	J25	3/12/2021				
70	l45167728	J26	3/12/2021				
71	l45167729	J27	3/12/2021				
72	l45167730	J28	3/12/2021				
73	l45167731	J29	3/12/2021				
74	l45167732	J30	3/12/2021				
75	145167733	J31	3/12/2021				
76	l45167734	J32	3/12/2021				
77	l45167735	J33	3/12/2021				
78	145167736	J34	3/12/2021				
79	145167737	J35	3/12/2021				
80	145167738	J36	3/12/2021				
81	145167739	J37	3/12/2021				
82	145167740	J38	3/12/2021				
83	145167741	J39	3/12/2021				
84	145167742	J40	3/12/2021				



Plate Offsets (X,Y)	[9:0-3-8,0-3-0], [16:Edge,0-1-8], [17:Edg	ge,0-1-8], [23:0-3-8,0-3-0]						
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 0.40 BC 0.17 WB 0.15 Matrix-S	DEFL. ir Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.01	n (loc) 1 1 17	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 160 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF OTHERS 2x4 SF	PF No.2 PF No.2 PF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD	Structu except Rigid c 6-0-0 c	iral wood end verti eiling dire oc bracing	sheathing di cals, and 2-0 ectly applied o g: 23-24.	rectly applied or 6-0-0 o -0 oc purlins (6-0-0 ma or 10-0-0 oc bracing,	oc purlins, x.): 13-16. Except:

WEBS

1 Row at midpt

WEDGE Left: 2x3 SPF No.2

-
- REACTIONS. All bearings 27-5-0. (lb) - Max Horz 2=410(LC 5)
 - Max Uplift All uplift 100 lb or less at joint(s) 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 19, 18
 - Max Grav All reactions 250 lb or less at joint(s) 17, 2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 19, 18

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

TOP CHORD 2-3=-364/37, 3-4=-315/30, 4-5=-291/28, 5-6=-266/25

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 19, 18.
- 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.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



ALL UL

16-17, 13-20, 12-21, 14-19, 15-18



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



March 12.2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



MI

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











WEBS 3-11=-407/260, 4-11=-51/728, 4-9=-766/256, 6-9=-56/968, 6-8=-1411/336

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 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, with BCDL = 10.0psf.

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=329, 2=150.

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









					RELEASE FOR
Job	Truss	Truss Type	Qty	Ply Lot 102 RR	CONSTRUCTION
210331	B2	Half Hip	1	1	AS NOTED ON PLANS REVIEW
				Job Reference (op	tional) DEVELOPMENT SERVICES
Wheeler Lumber, Way	verly, KS - 66871,		ID:Fi7EWovY 9	8.430 s Feb 12 2021 MiTek In 4Pzt7I IVv1aWAz_t70TIfacR	dustries, In c. Et Mao12106/50:42/2020 @ags I N4b6girz1p85OmgeBKmly1sbbBMY9w.lzbkrB
	L	6-3-9	11-6-0	16-2-5 17-5-0	04/06/2021
	I	6-3-9	5-2-7	4-8-4 '1-2-11'	
				6x6 = 3x6 =	Scale = 1:54.6
				4 5	
	Ī				Ī
		5.00 12	2x4		4-0
			3		24
		3x4 📁		7	
		2		214 6x6	=
	4-6				
	6x6 =		8	1	2
			3X10	~	5-1 1-
	9	9			
	5-9-	3x0 -	5.00 12		
					1
	10				
	2x4				
	L	6-3-9	11-6-0	<u>16-11-0 17-5</u> 10	
Plate Offsets (X V) [1:		6-3-9	5-2-7	5-5-0 0 ¹ -6-0	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	i (loc) l/defl L/d	PLATES GRIP
TCDL 25.0	Lumber DOL 1.15	BC 0.40	Vert(LL) -0.07	8-9 >999 360 9-10 >999 240	M120 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.02	6 n/a n/a	
BCDL 10.0	Code IRC2018/1PI2014	Matrix-S	Wind(LL) 0.05	8-9 >999 240	Weight: 67 lb $FI = 10\%$
LUMBER-			BRACING-		
TOP CHORD 2x4 SPF N	lo.2		TOP CHORD	Structural wood sheathing	directly applied or 3-9-12 oc purlins,
WEBS 2x3 SPF N	lo.2		BOT CHORD	Rigid ceiling directly applie	ed or 10-0-0 oc bracing.
Max Horz	10=0-3-8, 6=Mechanical 10=211(LC 5)				
Max Uplifi	t 6=-74(LC 8)				
Max Grav	10=774(LC 1), 6=774(LC 1)				ANUTLE.
FORCES. (Ib) - Max. Co	mp./Max. Ten All forces 250) (lb) or less except when shown			OF MISSIN
TOP CHORD 1-10=-73	31/84, 1-2=-1490/121, 2-3=-1-	405/129, 3-4=-1386/188, 5-6=-75	50/43		NYE
WEBS 1-9=-25	1/1435, 7-8=-54/393 1266, 2-9=-404/106, 3-8=-32	0/101. 4-8=-176/1213. 4-7=-606/	110. 5-7=-52/766		
	, ,		-,		JUAN
1) Unbalanced roof live los	ads have been considered for	this design			
2) Wind: ASCE 7-16; Vult=	=115mph (3-second gust) Vas	sd=91mph; TCDL=6.0psf; BCDL=	=6.0psf; h=25ft; Cat. II; E	xp C; Enclosed;	
MWFRS (envelope); ca	ntilever left and right exposed	; end vertical left and right expo	sed; Lumber DOL=1.60	plate grip DOL=1.60	NUMBER
4) This truss has been des	age to prevent water ponding signed for a 10.0 psf bottom c	hord live load nonconcurrent with	anv other live loads.		O. E-2000102101
5) * This truss has been de	esigned for a live load of 20.0	psf on the bottom chord in all are	eas where a rectangle 3-0	6-0 tall by 2-0-0 wide	1 South South
6) Refer to girder(s) for true	om chord and any other mem	bers.			ONALE
7) Bearing at joint(s) 10 cc	onsiders parallel to grain value	e using ANSI/TPI 1 angle to grair	formula. Building desig	ner should verify	
capacity of bearing surf	ace.	boaring plate capable of withste	anding 100 lb unlift at joir	at(c) 6	AMULTIN.
9) This truss is designed in	n accordance with the 2018 Ir	ternational Residential Code sec	ctions R502.11.1 and R8	02.10.2 and	NUAN GARCI
referenced standard AN	ISI/TPI 1.				CENSE
10) Graphical purlin repres	sentation does not depict the	size or the orientation of the pur	in along the top and/or b	ottom chord.	S / Nº NON S
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					ONALE
					March 12 2021





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.

16952 March 12,2021

MITEK° 16023 Swingley Ridge Rd Chesterfield, MO 63017









				RELEASE FOR
Job Truss	Truss Type	Qty Ply	Lot 102 RR	CONSTRUCTION
210331 B5	GABLE	1	~	AS NOTED ON PLANS REVIEW
	O, DEE	'	2 Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Waverly, KS - 60	5871,	8.430 s	Feb 12 2021 MiTek Inc	ustries, In LEE Bast Month 45 12 15 0 16 18
		ID:Ei7EWovY 94Pzt7UVv1	aWAz t70-O2 oleTFNV	VUPZlicUGe5OTGmuzLbECV78KmpXdzbkrO

NOTES-

04/06/2021 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 619 lb down and 59 lb up at 2-0-0, 619 lb down and 63 lb up at 4-0-0, 619 lb down and 63 lb up at 6-0-0, 619 lb down and 63 lb up at 8-0-0, 610 lb down and 62 lb up at 4-0-0, findigric(c) of other connection device(c) with be provided during in the apport concentrated load(c) of the down and 63 lb up at 2-0-0, of 9 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 16) Studding applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-619(B) 6=-619(B) 26=-619(B) 27=-619(B) 28=-619(B) 29=-619(B) 30=-619(B) 32=-619(B)





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 NITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 102 RR	CONSTRUCTION
210331	C1		1	•		AS NOTED ON PLANS REVIEW
210001			•	2	Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Way	/erly, KS - 66871,		8	3.430 s Fe	b 12 2021 MiTek Ind	ustries, Inc. EFE MaS 12 Month of 4 Match S Object 2
			ID:Ej7EWovY_94Pz	zt7UVy1g\	NAz_t70-LR6YjKVW	v7k7ocs?chhZTuM?EnvKi7JQbeFwbWzbkrM
						04/06/2021
1) Dood L Boof Live (bala] nced): Lumber Increase=1 14	Plate Increase-1 15				

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

Vert: 1-4=-70, 4-6=-70, 2-13=-20, 3-10=-20, 7-8=-20 Concentrated Loads (lb)

Vert: 10=-230(F) 12=-449(F) 14=-230(F) 15=-230(F) 16=-230(F)





		2-3-8			9-2-1		1			13-8-8	I 16-	-0-0
		2-3-8			6-10-9		1			4-6-7	2-	3-8
Plate Offsets ()	X,Y)	[3:0-0-11,0-0-15], [5:Edg	e,0-2-8], [8:0-3-	8,0-1-8]								
LOADING (psf TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	f) 0 0 * 0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matriz	0.72 0.71 0.60 <-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.28 -0.55 0.32 0.24	(loc) 3-10 3-10 6 3-10	l/defl >670 >342 n/a >789	L/d 360 240 n/a 240	PLATES MT20 Weight: 61 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD	2x6 SP	F 1650F 1.4E *Except*				BRACING- TOP CHOR	D	Structu	ral wood	sheathing di	rectly applied or 4-7-1	oc purlins,
BOT CHORD	2x4 SPI 7-9: 2x3	F No.2 *Except* 3 SPF No.2				BOT CHOR	D	Rigid c 6-0-0 c	eiling dire	ectly applied	or 10-0-0 oc bracing,	Except:
WEBS	2x3 SPI 3-11,2-1	F No.2 *Except* 12: 2x4 SPF No.2				WEBS		1 Row	at midpt	2	1-8	

REACTIONS. (size) 6=0-3-8, 12=0-3-8 Max Horz 12=166(LC 5) Max Uplift 6=-134(LC 4), 12=-216(LC 4) Max Grav 6=700(LC 1), 12=859(LC 1)

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

- TOP CHORD 2-3=-263/11, 3-4=-1296/218, 6-8=-673/147, 2-12=-857/235
- BOT CHORD 3-10=-212/1223, 9-10=-207/1229, 8-9=-215/1232
- WEBS 4-10=0/317, 4-8=-1250/226

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=134, 12=216.

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

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





March 12,2021



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

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 102 RR	CONSTRUCTION
210331	C3	Half Hin Girder	1	-		AS NOTED ON PLANS REVIEW
210001				2	Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Wav	erly, KS - 66871,			8.430 s Fe	b 12 2021 MiTek Inc	ustries, Inc. EE BaSt2Meter 502055040550405
		ID:Ej7	EWovY_94	Pzt7UVy1	gWAz_t70-l0nhLLXC	B26if3aaHpEG5W_cmTvXMsHcUaCrzbkrJ
LOAD CASE(S) Standard	1					04/06/2021
1) Dead + Roof Live (balar	, nced): Lumber Increase=1 15	Plate Increase=1 15				

d): Lumber Increase 1.15, Plate Increase =1.15 Uniform Loads (pf) Vert: 1-2=-70, 2-4=-70, 4-6=-70, 9-11=-20, 7-8=-20 Concentrated Loads (lb)

Vert: 12=-3162(B)





Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10.
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.1 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.







		2-3-8	<u>8-2-5</u> 5-10-13	<u> </u>	
Plate Offs	ets (X,Y)	[3:0-5-7,0-0-10]			
LOADING	i (psf)	SPACING- 2-0-0	CSI. DEFL.	in (loc) l/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.87 Vert(LL)	-0.19 3-7 >894 360	MT20 197/144
BCLL	0.0 *	Rep Stress Incr YES	WB 0.59 Horz(CT)	0.21 6 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S Wind(LL)	0.13 3-7 >999 240	Weight: 59 lb FT = 10%

LUMBER-BRACING-2x6 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals. WEBS 2x3 SPF No.2 *Except* BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 3-8,2-9: 2x4 SPF No.2 WEBS 1 Row at midpt 4-6

REACTIONS. (size) 6=Mechanical, 9=0-3-8 Max Horz 9=174(LC 5) Max Uplift 6=-43(LC 8), 9=-86(LC 4) Max Grav 6=639(LC 1), 9=800(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-271/0, 3-4=-1347/62, 2-9=-795/102

BOT CHORD 3-7=-79/1281 6-7=-78/1280

WEBS 4-7=0/287, 4-6=-1345/118

NOTES-

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

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

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

will fit between the bottom chord and any other members. Refer to girder(s) for truss to truss connections.

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

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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		8-2-5 8-2-5			14-8- 6-5-1	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 IncrYESCodeIRC2018/TPI2014	CSI. TC 0.88 BC 0.46 WB 0.43 Matrix-S	DEFL. Vert(LL) -0.0 Vert(CT) -0.1 Horz(CT) 0.0 Wind(LL) 0.0	in (loc) 9 6-7 8 6-7 2 5 3 5-6	l/defi L/d >999 360 >934 240 n/a n/a >999 240	PLATES MT20 Weight: 50 lb	GRIP 197/144 FT = 10%
LUMBER-			BRACING-				

TOP CHORD

BOT CHORD

WEBS

Ц	JM	BE	R-
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TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except*
	2-7: 2x6 SPF No.2

REACTIONS. (size) 5=Mechanical, 7=0-3-8 Max Horz 7=190(LC 5) Max Uplift 5=-43(LC 8), 7=-89(LC 4) Max Grav 5=634(LC 1), 7=803(LC 1)

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

2-3=-928/38, 2-7=-715/134 TOP CHORD

BOT CHORD 6-7=-49/789, 5-6=-49/789

3-6=0/317, 3-5=-873/89 WFBS

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.

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



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

3-5

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

except end verticals.

1 Row at midpt

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



Plate Offsets (X,Y)	[5:0-5-6,0-1-8]									
LOADING(psf)TCLL25.0TCDL10.0BCLL0.0*8CDL	SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr YI Code IRC2018/TPI201	0-0 CSI. .15 TC .15 BC ES WB 14 Matrix	0.36 DEF 0.25 Vert 0.00 Horz c-R Wine	L. in (LL) -0.04 (CT) -0.08 (CT) -0.00 d(LL) 0.01	(loc) 4-5 4-5 4 4-5	l/defl >999 >846 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 18 lb	GRIP 197/144 FT = 10%	
LUMBER-	·	·	BRA	CING-						

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 3-4: 2x3 SPF No.2

TOP CHORD except end verticals. BOT CHORD

Structural wood sheathing directly applied or 5-10-0 oc purlins, Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 5=0-3-8 Max Horz 5=120(LC 5) Max Uplift 4=-49(LC 8), 5=-138(LC 4) Max Grav 4=226(LC 1), 5=418(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-370/176

NOTES-

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=138.
- 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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				0-2-0					12	-11-1	14-0-0	
		I		8-2-5					4-	8-12	1-8-15	
Plate Offse	ets (X,Y)	[7:0-2-8,0-1-8]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.90	Vert(LL)	-0.09	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.18	7-8	>933	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	(-S	Wind(LL)	0.03	6-7	>999	240	Weight: 52 lb	FT = 10%
LUMBER-				1		BRACING-						
TOP CHOP	2x4 SF	PF No 2				TOP CHOR	סא	Structu	ral wood	sheathing di	rectly applied or 2-2-0	oc purlins

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

 WEBS
 2x3 SPF No.2 *Except* 2-8: 2x6 SPF No.2
 BOT CHORD
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 8=0-3-8 Max Horz 8=220(LC 5) Max Uplift 6=-129(LC 4), 8=-201(LC 4) Max Grav 6=634(LC 1), 8=803(LC 1)

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

- TOP CHORD 2-3=-913/142, 3-4=-873/232, 2-8=-718/247
- BOT CHORD 7-8=-141/772

WEBS 3-7=-439/240, 4-7=-210/826, 4-6=-573/133

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) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=129, 8=201.
- 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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16023 Swingley Ridge Rd Chesterfield, MO 63017



Continued on page 2

🗼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 102 RR	CONSTRUCTION
210331	C10	Roof Special Cirder	1	1		AS NOTED ON PLANS REVIEW
210351			'		Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Wave	erly, KS - 66871,			8.430 s Fe	b 12 2021 MiTek Inc	ustries, In LEE BaS 12 Move T 48 12 S O 4 B 2
		ID:Ej7EW	/ovY_94Pzt	7UVy1gWA	z_t70-pdgwwgW8gF	s_QmRBAOCo05u7dBH_RUWZqI?T7yzbkrL
						04/06/2021
LOAD CASE(S) Standard						
Concentrated Loads (lb)						
Vert: 7=-503(B)	9=-211(B) 10=-238(B) 11=-2	238(B)				







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Mitek° 16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 102 RR	CONSTRUCTION
210331	D1	Hip Girder	1	1		AS NOTED ON PLANS REVIEW
210001					Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Wave	erly, KS - 66871,			8.430 s Fe	o 12 2021 MiTek Ind	ustries, In LEE BaS 2000 502 50 25 0 498 2
		ID:Ej	7EWovY_	94Pzt7UV	/1gWAz_t70-aA9ycF	c9nutrN_2ke4LgLnDYtPxJJHRkfYxuPVzbkrD
						04/06/2021
LOAD CASE(S) Standard	l					

Uniform Loads (ptr) Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 8-12=-20 Concentrated Loads (lb)

Vert: 10=-197(F) 9=-197(F) 13=-28(F) 14=-12(F)





REACTIONS. (size) 7=0-3-8, 5=0-3-8 Max Horz 7=-46(LC 5) Max Uplift 7=-81(LC 4), 5=-181(LC 5) Max Grav 7=565(LC 1), 5=737(LC 1)

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

1-2=-744/98, 2-3=-756/104, 1-7=-462/113, 3-5=-646/220 TOP CHORD

BOT CHORD 6-7=-26/630, 5-6=-26/630

NOTES-

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

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 5=181.

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



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 0.64	Vert(LL) -0.07	5-6	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.17	5-6	>529	240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00	4	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.06	5-6	>999	240	Weight: 23 lb FT = 10%
LUMBER	R-			BRACING-				

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 1-6: 2x4 SPF No.2

REACTIONS. (size) 6=0-3-8, 4=0-3-8 Max Horz 6=100(LC 5) Max Uplift 6=-53(LC 4), 4=-55(LC 4)

Max Grav 6=330(LC 1), 4=330(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-6=-257/90

NOTES-

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

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

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

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



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





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

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

except end verticals.



TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.31 WB 0.03 Matrix-R	Vert(CT) -0.14 Horz(CT) 0.00 Wind(LL) 0.05	5-6 4 5-6	>594 >594 n/a >999	240 n/a 240	Weight: 22 lb	FT = 10%
LOADING (psf) TCLL 25.0 TCDI 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.59 BC 0.31	DEFL. in Vert(LL) -0.06 Vert(CT) -0.14	(loc) 5-6 5-6	l/defl >999 >594	L/d 360 240	PLATES MT20	GRIP 197/144

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

WEBS 2x3 SPF No.2 *Except* 1-6: 2x4 SPF No.2

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

REACTIONS. (size) 6=Mechanical, 4=0-3-8 Max Horz 6=99(LC 5) Max Uplift 6=-51(LC 4), 4=-52(LC 4) Max Grav 6=317(LC 1), 4=317(LC 1)

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

NOTES-

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

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

3) 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) 6, 4.

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



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1-0-5	6-10-1	12-9-1	18-6-13	21-1-3	25-6-0 26-7-0		
1-0-5	5-9-12	5-11-0	5-9-12	2-6-6	4-4-13 '1-1-0 '		
Plate Offsets (X,Y)	[8:0-1-13,0-2-3], [10:Edge,0-2-8]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.60 BC 0.77 WB 0.75 Matrix-S	DEFL. in Vert(LL) -0.16 Vert(CT) -0.30 Horz(CT) 0.07 Wind(LL) 0.13	(loc) I/defl L/d 14-15 >999 360 14-15 >999 240 10 n/a n/a 14 >999 240	PLATES GRIP MT20 197/144 Weight: 107 lb FT = 10%		
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF 10-13: WEBS 2x3 SF	PF No.2 PF No.2 *Except* 2x6 SPF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sheathing of except end verticals, and 2- Rigid ceiling directly applied 1 Row at midpt	directly applied or 3-8-14 oc purlins, -0-0 oc purlins (3-5-10 max.): 2-5, 6-7. d or 6-0-0 oc bracing. 6-11		
REACTIONS. (size) 16=0-3-8, 10=0-3-8 Max Horz 16=-129(LC 6) Max Uplift 16=-204(LC 5), 10=-360(LC 5) Max Grav 16=1179(LC 1), 10=1255(LC 1)							
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2004/394, 3-4=-2002/392, 4-5=-2105/387, 5-6=-2323/409, 6-7=-483/114, 7-8=-546/130, 8-10=-1314/309 BOT CHORD 15-16=-61/357, 14-15=-454/2572, 12-14=-454/2573, 11-12=-437/2400 WEBS 2-15=-323/1872, 3-15=-454/2572, 12-14=-454/2573, 11-12=-698/157, 5-12=-57/607, GARCIA							
6-12 NOTES- 1) Unbalanced roof livu 2) Wind: ASCE 7-16; \ MWFRS (envelope) grip DOL=1.60 3) Provide adequate d 4) This truss has been 5) * This truss has been	 6-12=-360/147, 6-11=-2138/387, 2-16=-1215/298, 8-11=-182/1033 NOTES- 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. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 						
 will fit between the b 6) Provide mechanical 16=204, 10=360. 7) This trues is design. 	pottom chord and any other members. connection (by others) of truss to bearing and in accordance with the 2018 Internation	ng plate capable of withstar	nding 100 lb uplift at join	nt(s) except (jt=lb)	CENSE		
 a) Finis truss is designing referenced standard b) Graphical purlin rep c) Hanger(s) or other or 25-6-0 on top chord is the responsibility c) In the LOAD CASE 	I ANSI/TPI 1. resentation does not depict the size or t connection device(s) shall be provided s , and 139 lb down and 746 lb up at 25-4 of others. E(S) section, loads applied to the face of	he orientation of the purlin a ufficient to support concent 4-15 on bottom chord. The i the truss are noted as fror	along the top and/or bot trated load(s) 29 lb down design/selection of suc nt (F) or back (B).	tom chord. n and 80 lb up at h connection device(s)	16952		
LOAD CASE(S) Stan 1) Dead + Roof Live (b	dard valanced): Lumber Increase=1.15, Plate	Increase=1.15			March 12 2021		

Continued on page 2

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



March 12,2021

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 102 RR	CONSTRUCTION
210331	F1	Roof Special Girder	1	1		AS NOTED ON PLANS REVIEW
210001					Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Wav	erly, KS - 66871,			8.430 s Fe	b 12 2021 MiTek Inc	ustries, Inc.EEE BaS12M6/9T02V2025 ObgB2
		ID:Ej7E\	NovY_94F	zt7UVy1g	NAz_t70-OKWDsSh	wNkd?5vVt_LS5a2TbMq1kjqod2TOCd8zbkr7
LOAD CASE(S) Standard	1					04/06/2021
Uniform Loads (plf)	•					

Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 10-16=-20 Concentrated Loads (lb)

Vert: 7=22(F) 11=57(F)




2-	7-8 9-8-5 7-8 7-0-13		<u>16-11-10</u> 7-3-5	19-6-0 2-6-6	23-10-13 4-4-13	<u>26-7-0</u> 2-8-3		
Plate Offsets (X,Y)	[7:0-2-0,0-1-8]							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.79 BC 0.65 WB 0.50 Matrix-S	DEFL. in Vert(LL) -0.13 Vert(CT) -0.25 Horz(CT) 0.06 Wind(LL) 0.10	(loc) I/defl L/ 11-13 >999 36 11-13 >999 24 9 n/a n/ 11-13 >999 24	(d PLAT 0 MT2C 0 (a) 0 Weig	ES GRIP 197/144 nt: 104 lb FT = 10%		
LUMBER- TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x6 SPF No.2 BRACING- TOP CHORD BOT CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BOT CHORD 2x3 SPF No.2 WEBS 2x3 SPF No.2								
REACTIONS. (size) 15=0-3-8, 9=0-3-8 Max Horz 15=-130(LC 4) Max Uplift 15=-176(LC 5), 9=-235(LC 5) Max Grav 15=1182(LC 1), 9=1331(LC 1)								
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-805/156, 2-3=-2037/394, 3-4=-2035/392, 4-5=-2124/357, 5-6=-968/154, 6-7=-1088/161, 1-15=-1185/178, 7-9=-1327/232								
BOT CHORD 13-1 WEBS 2-14 5-11	4=-96/753, 11-13=-278/1956, 10-11=-34 =-728/202, 2-13=-263/1469, 3-13=-590/2 =-377/140, 5-10=-1448/270, 1-14=-167/	9/2207 240, 4-13=-73/266, 4-11= 1122, 7-10=-137/1202	-12/434,		*	GARCIA		
NOTES- 1) Unbalanced roof livu 2) Wind: ASCE 7-16; \ MWFRS (envelope) grip DOL=1.60 3) Provide adequate d 4) This truss has been	 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 3) Provide adequate drainage to prevent water ponding. 							
 5) * This truss has been will fit between the b 6) Provide mechanical 	on designed for a live load of 20.0psf on to bottom chord and any other members. connection (by others) of truss to bearing	the bottom chord in all are	eas where a rectangle 3-6 anding 100 lb uplift at join	5-0 tall by 2-0-0 wide t(s) except (jt=lb)	S	UAN GARCIA		
 15=176, 9=235. This truss is designed referenced standard Graphical purlin rep 	15=176, 9=235. 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. 9) Crambian Junior increase path depict the size of the spirite cleare the ten end/or bettern short							
.,						10000		







 	<u>4-2-11</u> <u>9-8-5</u> <u>4-2-11</u> <u>5-5-10</u>	1:	5-4-6	<u>17-10-13</u> 2-6-6	22-3-10 4-4-13	<u> </u>			
Plate Offsets (X,Y)	[1:0-2-0,0-1-8], [7:0-1-14,0-2-0], [9:E	dge,0-2-8], [14:0-2-8,0-1-8]	502	200	++10	+ 0 0			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.44 BC 0.60 WB 0.80 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.09 12-13 -0.20 10-12 0.05 9 0.07 12-13	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 108 lb	GRIP 197/144 • FT = 10%		
LUMBER- TOP CHORD 2x4 SF 4-5: 2x BOT CHORD 2x4 SF WEBS 2x3 SF	PF No.2 *Except* 66 SPF No.2 PF No.2 PF No.2 PF No.2		BRACING- TOP CHOR BOT CHOR	D Structu except D Rigid c	ral wood sheathing d end verticals, and 2-(eiling directly applied	irectly applied or 4-10- 0-0 oc purlins (4-1-5 m or 10-0-0 oc bracing.	1 oc purlins, ax.): 2-4, 5-6.		
REACTIONS. (siz Max H Max L Max G	e) 15=0-3-8, 9=0-3-8 lorz 15=-128(LC 4) lplift 15=-153(LC 5), 9=-218(LC 5) irav 15=1182(LC 1), 9=1331(LC 1)						MISCU		
FORCES. (lb) - Max. TOP CHORD 1-2=-	Comp./Max. Ten All forces 250 (lb -1053/187, 2-3=-1688/324, 3-4=-1686 -1364/195 1-15=-1140/173 7-9=-130	or less except when showr /323, 4-5=-1901/319, 5-6=- 2/231	n. 1203/194,			ILATE	0,0		
6-/=-1364/195, 1-15=-1149/173, /-9=-1302/231 JUAN BOT CHORD 13-14=-105/944, 12-13=-222/1741, 10-12=-292/2005 WEBS 2-14=-539/151, 2-13=-171/991, 3-13=-465/186, 4-12=-42/485, 5-12=-446/154, 5-10=-1003/192, 6-10=0/264, 1-14=-147/1120, 7-10=-143/1304									
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; \ MWFRS (envelope) grip DOL=1.60 3) Provide adequate d 4) This truss bean	e loads have been considered for this /ult=115mph (3-second gust) Vasd= gable end zone; cantilever left and ri rainage to prevent water ponding.	design. 1mph; TCDL=6.0psf; BCDL ght exposed ; end vertical le	.=6.0psf; h=25ft; Ca eft and right expose	at. II; Exp C; Er d; Lumber DO	nclosed; L=1.60 plate	PHO E-200	MBER 00162101		
 5) * This truss has been will fit between the b 6) Provide mechanical 	the designed for a live load of 20.0psf bottom chord and any other members connection (by others) of truss to be	in the bottom chord in all an	eas where a rectan	gle 3-6-0 tall b at ioint(s) exc	y 2-0-0 wide ept (it=lb)	11111A	GARCI		
15=153, 9=218.7) This truss is designed referenced standard	ed in accordance with the 2018 Interr	ational Residential Code se	ections R502.11.1 a	nd R802.10.2	and	Sarry South	ENSED		
8) Graphical purlin rep	resentation does not depict the size o	r the orientation of the purlir	n along the top and	/or bottom cho	rd.	1 PROCESSION	ANSAS		



March 12,2021



L	5-9-14	13-9-3		19-6-0		3-10-13 26-7-0		
	5-9-14	7-11-5	1	5-8-13		4-4-13 2	-8-3	
Plate Offsets (X,Y)	[1:0-2-0,0-1-8], [2:0-4-3,Edge], [6:0-2-0	,0-1-8], [8:Edge,0-2-8], [1:	2:0-2-8,0-1-8]					
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 0.74 BC 0.88 WB 0.97 Matrix-S	DEFL. Vert(LL) -(Vert(CT) -(Horz(CT) (Wind(LL) (in (loc) .24 9-11 .50 9-11 .05 8 .06 9-11	I/defl L/d >999 360 >630 240 n/a n/a >999 240	PLATES MT20 Weight: 106	GRIP 197/144 Ib FT = 10%	
				.00 0 11	2000 210	Wolght. 100		
LUMBER- TOP CHORD 2x4 SP 2-3: 2x BOT CHORD 2x4 SP WEBS 2x3 SP	F No.2 *Except* 4 SPF 2100F 1.8E, 3-4: 2x6 SPF No.2 F No.2 F No.2		BRACING- TOP CHORD BOT CHORD	Structu except Rigid co 6-0-0 o	ral wood sheathing end verticals, and eiling directly appli c bracing: 8-9.	g directly applied or 4-6 2-0-0 oc purlins (4-4-5 ed or 10-0-0 oc bracing	-15 oc purlins, max.): 2-3, 4-5. ,, Except:	
REACTIONS. (size Max H Max U Max G	e) 13=0-3-8, 8=0-3-8 orz 13=-126(LC 4) plift 13=-124(LC 5), 8=-206(LC 5) rav 13=1182(LC 1), 8=1331(LC 1)						F MISSIL	
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1221/188, 2-3=-1591/256, 3-4=-1784/248, 4-5=-998/117, 5-6=-1120/112, 1-13=-1134/152, 6-8=-1365/180 BOT CHORD 11-12=-93/1078, 9-11=-292/2188 WEBS 2-12=-390/142, 2-11=-94/681, 3-11=0/297, 4-11=-663/230, 4-9=-1391/256, 1-12=-129/1166, 6-9=-77/1246								
 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 areabacing (burget to provide the probability of the probab								
 a) 1000000000000000000000000000000000000	ed in accordance with the 2018 Internat ANSI/TPI 1. resentation does not depict the size or t	onal Residential Code ser	ctions R502.11.1 and	R802.10.2 a	and rd.	1 PROFILE	6952	

March 12,2021

16023 Swingley Ridge Rd Chesterfield, MO 63017



	⊢	7-5-2	10-2-0	11-10-13	13-10-13		21-1	-3		25-6-0	26-7-0
Plate Offsets ()	X Y)	7-5-2 [1:Edge 0-2-12] [2:0-4-3 Edge] [6:0-4-0	2-8-14	1-8-13	2-0-0 [10:Edge 0-2-8] [16.0-2-	<u>7-2-</u> 8 0-1-81	6		4-4-13	1-1-0
	,,,,,	[1.Luge,0 2 12], [2.0 + 0,Luge], [0.0 + 0	,0 2 0], [0.0	1 10,0 2 0],	[10.Euge,0 2 0], [10.0 2 0	0,010]				
LOADING (psf	f)	SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	0	Plate Grip DOL 1.15	TC	0.70	Vert(LL)	-0.12	12-14	>999	360	MT20	197/144
TCDL 10.0	0	Lumber DOL 1.15	BC	0.75	Vert(CT)	-0.22	12-14	>999	240		
BCLL 0.0 BCDL 10.0	0	Code IRC2018/TPI2014	WB Matrix	0.60 (-S	Wind(LL)	0.05	10 12-14	n/a >999	n/a 240	Weight: 122 lb	FT = 10%
LUMBER-					BRACING						
TOP CHORD	2x4 SP	F No.2 *Except*			TOP CHO	RD	Structu	ral wood	sheathing dire	ectly applied or 4-5-2 c	oc purlins,
	1-2,5-6	: 2x4 SPF 2100F 1.8E, 3-4: 2x6 SPF No	.2				except	end verti	cals, and 2-0-	0 oc purlins (4-3-12 m	ax.): 2-3, 4-5,
BOT CHORD	2x4 SP	F No.2 *Except*					6-7.				
WEBS	10-13: 2 2x3 SP	2x6 SPF No.2 F No.2			BOT CHOP	RD	Rigid c	eiling dire at midnt	ectly applied o	r 6-0-0 oc bracing.	
	2.00 01							armapt		.,	
REACTIONS.	(size	e) 17=0-3-8, 10=0-3-8									
	Max He	orz $17=-124(LC 6)$									ш.
	Max O	pill $17=101(LC 8), 10=-333(LC 9)$ ray $17=1179(LC 1), 10=1255(LC 1)$								N' OF	MIS
	Max O									NE	
FORCES. (lb)) - Max.	Comp./Max. Ten All forces 250 (lb) or	less except	when shown						SXR	
TOP CHORD	1-2=-	1290/171, 2-3=-1262/228, 3-4=-1364/22	9, 4-5=-1561	1/291, 5-6=-1	1790/265,					- S	IAN
	6-7=-	481/128, 7-8=-555/143, 1-17=-1112/137	, 8-10=-1339	9/326	_					GAF	RCIA
BOICHORD	15-16	=-57/1112, 14-15=-120/1502, 12-14=-3	(3/2452, 11-	12=-3/1/244	/220					- *:	:*=
WEDS	2-10= 6-14=	-274/114, 2-15=-110/400, 3-15=-00/307 -923/234 6-11=-2182/305 1-16=-83/11	, 4-15=-722/ 30 8-11=-21	179, 5-14=0 10/1032	/320,					-	
	011-	020/201, 011-2102/000, 110-00/11	00,011-2	10/1002						NUN	IBER :
NOTES-										- O E-2000	162101
1) Unbalanced	roof live	loads have been considered for this de	sign.							1. 1	
2) Wind: ASCE	E 7-16; V	ult=115mph (3-second gust) Vasd=91m	ph; TCDL=6.	.0psf; BCDL:	=6.0psf; h=25ft; C	at. II; Ex	kp C; En	closed;	-	1.80	
arin DOI -1	ivelope)	gable end zone; cantilever leit and right	exposed; er	no ventical le	it and right exposi	ea; Lum	iber DOI	_=1.60 pi	ale	NON N	ALEIN
3) Provide ade	auate dra	ainage to prevent water ponding.								2011	IIII.
4) This truss ha	as been	designed for a 10.0 psf bottom chord live	e load nonco	ncurrent with	n any other live loa	ads.					ш <u>и.</u>
5) * This truss I	has beer	n designed for a live load of 20.0psf on the	ne bottom ch	nord in all are	eas where a rectain	ngle 3-6	6-0 tall by	y 2-0-0 w	ide		GAD
will fit betwe	en the b	ottom chord and any other members.								NUAN	CIA
 6) Provide med 17=101, 10= 	chanical =333.	connection (by others) of truss to bearin	g plate capa	ble of withsta	anding 100 lb uplit	t at join	t(s) exce	ept (jt=lb)		IN CI	NSED
7) This truss is	designe	d in accordance with the 2018 Internation	nal Residen	tial Code see	ctions R502.11.1 a	and R80	02.10.2 a	and		E / Č	ĭ ∖ Ē
reterenced s	standard	ANSI/IPI1.	o origntation	of the purlie	along the ten and	d/or both	tom cho	d		10	052
9) Hanger(s) or	r other c	eseritation does not depict the Size of the	fficient to su	nont concer	ntrated load(s) 29	Ih dowr	and 80	u. Ih un at		10	304

25-6-0 on top chord, and 139 lb down and 746 lb up at 25-4-15 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

Continued on page 2

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

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

NONAL ENGLISH

March 12,2021

					RELEASE FOR
Job Truss	Truss Type	Qty	Ply	Lot 102 RR	CONSTRUCTION
210331 E5	Roof Special Girder	1	1		AS NOTED ON PLANS REVIEW
				Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Waverly, KS - 66871,		8	.430 s Fe	b 12 2021 MiTek Inc	ustries, Inc. EFE MaS 2100 B1 08 20 25 O 49 8 2
	ID:Ej7	'EWovY_9	4Pzt7UVy	1gWAz_t70-DUtU7	IhyaO8pry1LbZVqJjcJF5V7aWVQPrXrozbkr1
LOAD CASE(S) Standard					04/06/2021
1) Dead + Roof Live (balanced): Lumber Increase-1 15	Plate Increase-1 15				

Uniform Loads (pf) Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 10-17=-20 Concentrated Loads (lb)

Vert: 7=22(B) 11=57(B)







L	6-10-0	13-6-11	1	20-2-3	25-7-0
Plata Officate (X X)	6-10-0 [6:0.0.14 Edge] [10:0.2.8.0.1.8] [11:0	<u>6-8-12</u>		6-7-8	5-4-13
	[0.0-0-14,Euge], [10.0-2-0,0-1-0], [11.0-	<u></u>			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.87 BC 0.96 WB 0.69 Matrix-S	DEFL. Vert(LL) - Vert(CT) - Horz(CT) Wind(LL)	in (loc) I/defl L/d 0.30 10-11 >999 360 0.55 10-11 >551 240 0.09 6 n/a n/a 0.26 10-11 >999 240	PLATES GRIP MT20 197/144 M18SHS 197/144 Weight: 124 lb FT = 10%
LUMBER- TOP CHORD 2x6 SF 3-5: 2x BOT CHORD 2x6 SF 9-12: 2 WEBS 2x4 SF 1-12: 2	PF No.2 *Except* 16 SPF 1650F 1.4E PF No.2 *Except* 1x6 SPF 1650F 1.4E PF 2100F 1.8E *Except* 1x4 SPF No.2, 2-11,4-10,5-8: 2x3 SPF N	lo.2	BRACING- TOP CHORE BOT CHORE	 Structural wood sheathing except end verticals, and 2 Rigid ceiling directly applie 	directly applied or 3-3-8 oc purlins, -0-0 oc purlins (2-5-8 max.): 1-5. d or 8-0-2 oc bracing.
REACTIONS. (siz: Max H Max U Max G	e) 12=0-3-8, 6=0-3-8 lorz 12=-103(LC 27) iplift 12=-428(LC 4), 6=-397(LC 5) Grav 12=2127(LC 1), 6=2050(LC 1)				OF MISSO
FORCES. (lb) - Max. TOP CHORD 1-12: BOT CHORD 10-11: WEBS 1-11: 5-8=-	Comp./Max. Ten All forces 250 (lb) or =-1963/487, 1-2=-4756/977, 2-4=-4756/9 1=-1173/6072, 8-10=-743/4020, 6-8=-74 =-985/4876, 2-11=-851/397, 4-11=-1389 -3/588	less except when shown 977, 4-5=-6075/1252, 5-6 3/4045 //297, 4-10=-469/304, 5-1	ı. =-4484/870 0=-455/2271,		JUAN GARCIA
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 3) Provide adequate di	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right rainage to prevent water ponding.	esign. aph; TCDL=6.0psf; BCDL exposed ; end vertical le	=6.0psf; h=25ft; Cat. ft and right exposed	II; Exp C; Enclosed; ; Lumber DOL=1.60 plate	0. E-2000162101
 All plates are M120 This truss has been This truss has beee will fit between the b Provide mechanical 12=428, 6=397. 	plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t sottom chord and any other members. connection (by others) of truss to bearin	re load nonconcurrent with the bottom chord in all are ng plate capable of withsta	h any other live load eas where a rectang anding 100 lb uplift a	s. le 3-6-0 tall by 2-0-0 wide at joint(s) except (jt=lb)	CENSED
 8) This truss is designed referenced standard 9) Graphical purlin rep 10) Hanger(s) or other 0-9-8, 108 lb down 00 lb up ot 200 lb 	ed in accordance with the 2018 Internation I ANSI/TPI 1. resentation does not depict the size or the connection device(s) shall be provided and 90 lb up at 2-9-8, 108 lb down and 108 lb down and 0.0 k up at 10.0 %	onal Residential Code sea ne orientation of the purlin sufficient to support conce I 90 lb up at 4-9-8, 108 Jb down and 90 lb up at	tions R502.11.1 an along the top and/c entrated load(s) 115 down and 90 lb up	d R802.10.2 and or bottom chord. Ib down and 87 lb up at at 6-9-8, 108 lb down and and 00 lb up at 14.0.8	16952
90 ID UP at 8-9-8, and 108 Ib down down at 2-9-8, 67 down at 14-9-8, 67 design/selection of	nd 90 lb up at 16-9-8, and 108 lb down Ib down at 4-9-8, 67 lb down at 6-9-8, 7 lb down at 16-9-8, and 67 lb down at 5 such connection device(s) is the respor	and 90 lb up at 18-9-8 or 67 lb down at 8-9-8, 67 lb 18-9-8, and 354 lb down hsibility of others.	n top chord, and 74 l o down at 10-9-8, 6 and 117 lb up at 20	and 90 lb up at 14-9-8, lb down at 0-9-8, 67 lb 7 lb down at 12-9-8, 67 lb -2-3 on bottom chord. The	March 12,2021
CONTINUES WHY PRICE 20L					
WARNING - Verify Design valid for use o a truss system. Befor building design. Brac is always required for fabrication, storage, d Safety Information	design parameters and READ NOTES ON THIS ANI nly with MITek® connectors. This design is based to use, the building designer must verify the applical ing indicated is to prevent buckling of individual tru stability and to prevent collapse with possible pers ellivery, erection and bracing of trusses and truss s available from Truss Plate Institute, 2670 Crain Hig	DINCLUDED MITEK REFERENCE only upon parameters shown, an sility of design parameters and p ss web and/or chord members o onal injury and property damage ystems, see ANSI/TPH1 hway, Suite 203 Waldorf, MD 20	CE PAGE MII-7473 rev. 5/1 di si for an individual builo roperly incorporate this di nJy. Additional temporary b. For general guidance re I Quality Criteria, DSB-8 3601	9/2020 BEFORE USE. ling component, not esign into the overall and permanent bracing agarding the 9 and BCSI Building Component	16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 102 RR	CONSTRUCTION
210331	G1	Half Hin Girder	1	1		AS NOTED ON PLANS REVIEW
210001					Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Way	/erly, KS - 66871,	b 12 2021 MiTek Ind	ustries, In LEFE' BaSUMOUT 1 MUSS ON BL			
		ID:Ejī	7EWovY_9	4Pzt7UVy	1gWAz_t70-e3ZdIXd	ZFVmjgIhc0k6CSyL4tS2wKwsy6N3BR7zbkr_
			04/06/2021			
LUAD CASE(S) Standar	a					
 Dead + Roof Live (bala 	nced): Lumber Increase=1.15					

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

Concentrated Loads (lb)

Vert: 11=-43(F) 2=-103(F) 8=-354(F) 13=-115(F) 14=-103(F) 15=-103(F) 16=-103(F) 17=-103(F) 18=-103(F) 19=-103(F) 20=-103(F) 21=-103(F) 22=-47(F) 23=-43(F) 24=-43(F) 25=-43(F) 26=-43(F) 27=-43(F) 28=-43(F) 29=-43(F) 30=-43(F)





L	8-6-7	1	5-2-11		24-3-14		-1
	8-6-7		6-8-4	1	9-1-3		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.33 BC 0.65 WB 0.96 Matrix-S	DEFL. in Vert(LL) -0.17 Vert(CT) -0.38 Horz(CT) 0.08 Wind(LL) 0.03	in (loc) l/def 7 9-11 >999 5 9-11 >827 5 9 n/a 3 11-12 >999	I L/d 9 360 7 240 a n/a 9 240	PLATES MT20 Weight: 101 lb	GRIP 197/144 FT = 10%

L	U	М	в	E	R	•	
_	-	_	-			_	_

TOP CHORD	2x4 SPF No.2 *Except*
	3-4: 2x6 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except*
	7-9: 2x4 SPF No 2

BRACING-TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied or 4-2-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-15 max.): 4-5. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 2-13

REACTIONS. (size) 13=Mechanical, 9=0-3-8 Max Horz 13=-110(LC 6) Max Uplift 9=-51(LC 9) Max Grav 13=1077(LC 1), 9=1231(LC 1)

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

- TOP CHORD 2-3=-1084/64, 3-4=-1069/51, 4-5=-1389/64, 5-6=-1569/52, 6-7=-282/0, 7-9=-375/47
- BOT CHORD 12-13=0/789, 11-12=0/1460, 9-11=-36/1450
- WEBS 2-12=0/308, 3-12=0/467, 4-12=-709/83, 5-11=0/338, 2-13=-1160/22, 6-9=-1501/104

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.

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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MIS





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



March 12.2021



1	6-6-3	10-6-11 I	16-5-1	18-5-1	24-3-14
Γ	6-6-3	4-0-8	5-10-6	2-0-0	5-10-13
Plate Offsets (X,Y)	[1:Edge,0-2-12], [6:0-3-0,0-1-12], [12:0-	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 0.71 BC 0.62 WB 0.82 Matrix-S	DEFL. in Vert(LL) -0.12 Vert(CT) -0.27 Horz(CT) 0.03 Wind(LL) 0.04	(loc) l/defi L/d 9-11 >999 360 9-11 >999 240 8 n/a n/a 9-11 >999 240	PLATES GRIP MT20 197/144 Weight: 101 lb FT = 10%
LUMBER- TOP CHORD 2x4 SF 3-4: 2x BOT CHORD 2x4 SF WEBS 2x3 SF 6-8: 2x	PF No.2 *Except* 6 SPF No.2 PF No.2 PF No.2 *Except* 4 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di except end verticals, and 2-0 Rigid ceiling directly applied	rectly applied or 3-5-6 oc purlins,)-0 oc purlins (4-8-3 max.): 2-3, 4-5. or 10-0-0 oc bracing.
REACTIONS. (size Max H Max U Max G	e) 13=Mechanical, 8=0-3-8 lorz 13=-110(LC 6) plift 8=-45(LC 9) rav 13=1077(LC 1), 8=1231(LC 1)				OF MISS
FORCES. (lb) - Max. TOP CHORD 1-2=- 1-13: BOT CHORD BOT CHORD 11-12 WEBS 2-12: 6-9=(Comp./Max. Ten All forces 250 (lb) or 1095/37, 2-3=-1180/51, 3-4=-1334/30, 4 =-1015/21, 6-8=-1178/69 =-0/944, 9-11=0/1830 =-321/59, 2-11=-24/483, 4-11=-735/92, 4 0/1313	less except when shown. -5=-1525/44, 5-6=-1749// -9=-540/43, 5-9=0/410, 1	-12=0/988,		JUAN GARCIA
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) 3) Provide adequate dr 4) This truss has been will fit between the b 6) Refer to girder(s) for 7) Provide mechanical 8) This truss is designer referenced standard	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m ; cantilever left and right exposed ; end v aniage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t bottom chord and any other members. r truss to truss connections. connection (by others) of truss to bearin ed in accordance with the 2018 Internation I ANSI/TPI 1.	sign. ph; TCDL=6.0psf; BCDL= ertical left and right expose e load nonconcurrent with he bottom chord in all are g plate capable of withsta nal Residential Code sec	=6.0psf; h=25ft; Cat. II; Ex sed; Lumber DOL=1.60 p n any other live loads. as where a rectangle 3-6 unding 100 lb uplift at joint ttions R502.11.1 and R80	top C; Enclosed; late grip DOL=1.60 -0 tall by 2-0-0 wide t(s) 8. 12.10.2 and	NUMBER E-2000162101

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



	4-11-0	12-1-14		18-0-4	20-0-4	24-3-14		
Plate Offsets (X,Y)	[1:0-2-0,0-1-8], [12:0-2-8,0-1-8]	7-2-14		5-10-6	2-0-0	4-3-10		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.55 BC 0.67 WB 0.70 Matrix-S	DEFL. Vert(LL) -0 Vert(CT) -0 Horz(CT) 0 Wind(LL) 0	in (loc) l/def .11 9-11 >999 .25 9-11 >999 .04 8 n/a .04 9-11 >999	1 L/d 360 240 a n/a 240	PLATES MT20 Weight: 98 lb	GRIP 197/144 FT = 10%	
LUMBER- TOP CHORD 2x4 SF 2-3: 2x BOT CHORD 2x4 SF WEBS 2x3 SF 6-8: 2x	DMBER- TOP CHORD 2x4 SPF No.2 *Except* 2-3: 2x4 SPF 2100F 1.8E, 3-4: 2x6 SPF No.2 BRACING- TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-15 max.): 2-3, 4-5. 3OT CHORD 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x3 SPF No.2 *Except* 6-8: 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.							
REACTIONS. (size) 13=Mechanical, 8=0-3-8 Max Horz 13=-110(LC 6) Max Uplift 13=-3(LC 4), 8=-39(LC 5) Max Grav 13=1077(LC 1), 8=1231(LC 1)								
FORCES. (ib) - Max. TOP CHORD 1-2=- 6-8= 6-8= BOT CHORD 11-12 WEBS 2-12= 6-9=(6-9=(FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1007/45, 2-3=-1396/48, 3-4=-1560/37, 4-5=-1489/21, 5-6=-1692/7, 1-13=-1040/22, 6-8=-1194/51 BOT CHORD 11-12=0/893, 9-11=0/2020 WEBS 2-12=-417/82, 2-11=-19/660, 4-11=-675/94, 4-9=-806/51, 5-9=0/459, 1-12=-8/1021, 0							
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V MWFRS (envelope) 3) Provide adequate di 4) This truss has been 5) * This truss has been will fit between the b 6) Refer to girder(s) for 7) Provide mechanical 8) This truss is designer referenced standard	a loads have been considered for this de /ult=115mph (3-second gust) Vasd=91m ; cantilever left and right exposed ; end v rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t sottom chord and any other members. r truss to truss connections. connection (by others) of truss to bearin ed in accordance with the 2018 Internation I ANSI/TPI 1.	sign. ph; TCDL=6.0psf; BCDL= rertical left and right expos e load nonconcurrent with he bottom chord in all area g plate capable of withsta onal Residential Code sec	6.0psf; h=25ft; Cat. I sed; Lumber DOL=1. any other live loads as where a rectangle nding 100 lb uplift at tions R502.11.1 and	I; Exp C; Enclosed 60 plate grip DOL 3-6-0 tall by 2-0-0 joint(s) 13, 8. R802.10.2 and	d; =1.60) wide	HOTHER SOLO	MBER 10162101	



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017





1	3-3-12	8-5-3	13-9-	1 1	1	9-7-8	1	21-7-8	24-3-1	4
	3-3-12	5-1-6	5-3-1	4	5	-10-6		2-0-0	2-8-6	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	* Rep St Code	NG- 2-0-0 Grip DOL 1.15 r DOL 1.15 ress Incr YES IRC2018/TPI2014 14	CSI. TC 0.37 BC 0.73 WB 0.79 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.16 13-14 -0.34 13-14 0.05 9 0.06 10-12	l/defl >999 >854 n/a >999	L/d 360 240 n/a 240	PLA MT2 Wei	ATES 20 ight: 97 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD 22 4 BOT CHORD 22 WEBS 22 7-	x4 SPF No.2 *Exce -5: 2x6 SPF No.2 x4 SPF No.2 x3 SPF No.2 *Exce -9: 2x4 SPF No.2	pt*		BRACING TOP CHOP BOT CHOP	RD Structo excep RD Rigid 6 6-0-0	ural wood s t end vertic ceiling direc oc bracing:	sheathing o als, and 2- ctly applied 9-10.	directly applie -0-0 oc purlin d or 10-0-0 o	ed or 4-7-6 is (4-6-3 m c bracing,	oc purlins, ax.): 2-4, 5-6. Except:
REACTIONS.	(size) 14=Mech /ax Horz 14=-139(/	anical, 9=0-3-8 LC 4)								

Max Uplift 14=-143(LC 4), 9=-189(LC 5) Max Grav 14=1077(LC 1), 9=1231(LC 1)

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

- TOP CHORD 2-3=-1480/263, 3-4=-1478/261, 4-5=-1743/247, 5-6=-1321/122, 6-7=-1495/125, 7-9=-1223/173 BOT CHORD 13-14=-47/703, 12-13=-129/1564, 10-12=-244/2235
- WEBS 2-13=-118/1025, 3-13=-429/173, 4-12=0/372, 5-12=-706/207, 5-10=-1182/227, 6-10=-17/450, 2-14=-1122/219, 7-10=-103/1417

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=143, 9=189.

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.







1-8	-9 8-1-14	11-10-14	15-4-4	21-2-11	23-2-11 24-3-14
Plate Offsets (X,Y)	-9 6-3-5 [2:0-4-3.Edae]. [5:0-6-4.0-3-0]. [10:0-5-	0.0-0-12]. [15:0-6-12.Eda	e]. [16:Edae.0-2-8]	0-10-0	2-0-0 1-1-3
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.78 BC 0.65 WB 0.92 Matrix-S	DEFL. ii Vert(LL) -0.33 Vert(CT) -0.60 Horz(CT) 0.22 Wind(LL) 0.24	n (loc) l/defl L/d 3 14-15 >865 360 0 14-15 >480 240 9 10 n/a n/a 4 14-15 >999 240	PLATES GRIP MT20 197/144 Weight: 114 lb FT = 10%
LUMBER- TOP CHORD 2x4 SI 2-5: 2) BOT CHORD 2x3 SI 16-17: 10-13: WEBS 2x3 SI 2-15: 2	PF No.2 *Except* 44 SPF 2100F 1.8E, 5-6: 2x6 SPF No.2 PF No.2 *Except* 2x4 SPF No.2, 14-15: 2x4 SPF 2100F 2x6 SPF No.2 PF No.2 *Except* 2x4 SPF No.2, 8-10: 2x6 SPF No.2	1.8E	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing d except end verticals, and 2- Rigid ceiling directly applied 6-0-0 oc bracing: 10-11.	irectly applied or 4-9-4 oc purlins, 0-0 oc purlins (3-1-0 max.): 2-5, 6-7. or 10-0-0 oc bracing, Except:
REACTIONS. (siz Max H Max L Max C	e) 10=0-3-8, 17=Mechanical lorz 17=-140(LC 6) Jplift 10=-270(LC 5), 17=-170(LC 4) Grav 10=1170(LC 1), 17=1071(LC 1)				E OF MISSOU
FORCES. (Ib) - Max. TOP CHORD 2-3= 7-8= BOT CHORD 3-15	Comp./Max. Ten All forces 250 (lb) o -4023/663, 3-4=-4263/634, 4-5=-4207/6 -645/94, 8-10=-580/110 =-480/169, 14-15=-544/4071, 11-12=-33	r less except when shown 32, 5-6=-1984/290, 6-7=-3 31/2430, 10-11=-82/556	n. 507/74,		JUAN GARCIA *
WEBS 15-1 6-12 NOTES-	7=-50/469, 2-15=-533/3572, 12-14=-199 =-658/231, 6-11=-2133/387, 7-11=-88/3	9/1972, 5-14=-378/2680, 5 22, 2-17=-1233/273	5-12=-743/161,		E-2000162101
2) Wind: ASCE 7-16; MWFRS (envelope) grip DOL=1.60	/ult=115mph (3-second gust) Vasd=91r gable end zone; cantilever left and righ	nph; TCDL=6.0psf; BCDL t exposed ; end vertical le	=6.0psf; h=25ft; Cat. II; E ft and right exposed; Lu	Exp C; Enclosed; mber DOL=1.60 plate	
 3) Provide adequate d 4) This truss has been 5) * This truss has been 	rainage to prevent water ponding. designed for a 10.0 psf bottom chord lin in designed for a live load of 20.0psf on	ve load nonconcurrent wit the bottom chord in all are	h any other live loads. eas where a rectangle 3-	-6-0 tall by 2-0-0 wide	UAN GARCIA
 will fit between the l 6) Refer to girder(s) fo 7) Provide mechanical 10=270, 17=170. 	bottom chord and any other members. r truss to truss connections. connection (by others) of truss to beari	ng plate capable of withsta	anding 100 lb uplift at joi	nt(s) except (jt=lb)	16952
8) This truss is design referenced standard9) Graphical purlin rep	ed in accordance with the 2018 Internat ANSI/TPI 1. resentation does not depict the size or t	ional Residential Code se	ctions R502.11.1 and R8 n along the top and/or bo	302.10.2 and httom chord.	Pa h. H.
10) Hanger(s) or other 23-2-11 on top che device(s) is the re 11) In the LOAD CAS	connection device(s) shall be provided ord, and 168 lb down and 874 lb up at 2 sponsibility of others. E(S) section. loads applied to the face o	sufficient to support conc 3-1-11 on bottom chord. f the truss are noted as fro	entrated load(s) 55 lb do The design/selection of ont (F) or back (B).	wn and 12 lb up at such connection	INSAS OF
dancase(s)-one	dard				March 12,2021
commuseren-pageozar	uaiu				



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 102 RR	CONSTRUCTION
210331	GZ	Roof Special Girder	1	1		AS NOTED ON PLANS REVIEW
210551			'		Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Wav	erly, KS - 66871,			8.430 s Fe	o 12 2021 MiTek Inc	ustries, In LEE BaSUMWHT2 MUSS OUBL
		ID:Ej7	EWovY_9	4Pzt7UVy	IgWAz_t70-L_9Pryv	qua0ltqSXbqlYs3molUY2gNmQPwUjnYzbkqq
						04/06/2021
LUAD CASE(S) Standard	1					
 Dead + Roof Live (balar 	nced): Lumber Increase=1.1	5, Plate Increase=1.15				

Uniform Loads (plf) Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 16-17=-20, 14-15=-20, 10-13=-20 Concentrated Loads (lb)

Vert: 11=66(B)





	8-7-0	1	16-11-8		1		
	8-7-0	I	8-4-8			5-4-6	
Plate Offsets (X,	Y) [6:0-2-12,0-2-8]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 * Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.42 BC 0.75 WB 0.71 Matrix-S	DEFL. ir Vert(LL) -0.14 Vert(CT) -0.31 Horz(CT) 0.05 Wind(LL) 0.05	n (loc) l/defl 11-12 >999 11-12 >859 5 8 n/a 5 9-11 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 79 lb	GRIP 197/144 FT = 10%
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Except* 6-8: 2x4 SPF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural wood except end verti Rigid ceiling dire 1 Row at midpt	sheathing dire cals, and 2-0- ectly applied o 2-	ectly applied or 4-3-1 0 oc purlins (4-0-11 r r 10-0-0 oc bracing. •12	1 oc purlins, nax.): 1-5.
REACTIONS.	(size) 12=Mechanical, 8=0-3-8 Max Horz 12=-104(LC 6) Max Uplift 12=-50(LC 4), 8=-60(LC 5) Max Grav 12=987(LC 1), 8=1141(LC 1)						MIST
FORCES. (Ib) TOP CHORD BOT CHORD WEBS	- Max. Comp./Max. Ten All forces 250 (ll 2-4=-1834/57, 4-5=-1381/48, 5-6=-1577/ 11-12=-52/1505, 9-11=-57/1969 2-12=-1649/122, 2-11=0/501, 4-9=-729/8	o) or less except when shown. 39, 6-8=-1096/81 5, 5-9=0/316, 6-9=-9/1244				GA	UAN RCIA
NOTES- 1) Unbalanced r 2) Wind: ASCE MWERS (app)	oof live loads have been considered for th 7-16; Vult=115mph (3-second gust) Vasd=	s design. 91mph; TCDL=6.0psf; BCDL=6.0	lpsf; h=25ft; Cat. II; E	Exp C; Enclosed;	60	PR NU	MBER

MWFRS (envelope); cantilever left and right exposed ;

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

referenced standard ANSI/TPI 1.

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



16023 Swingley Ridge Rd Chesterfield, MO 63017



⊢	3-6-1	4-1-2 4-8-3		11-7-7				18-6-11			22-3-14	
1	3-6-1	0-7-1'0-7-1'		6-11-4		1		6-11-4			3-9-3	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	*	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.48 0.57 0.67	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.15 -0.30	(loc) 12 12-13 9	l/defl >999 >889	L/d 360 240	PLATES MT20	GRIP 197/144
BCDL 10.0		Code IRC2018/TP	12014	Matrix	-S	Wind(LL)	0.08	12	>999	240	Weight: 83 lb	FT = 10%

LUMBER-

 TOP CHORD
 2x4 SPF No.2 *Except*

 2-3,3-4: 2x6 SPF No.2, 4-6: 2x4 SPF 2100F 1.8E

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2 *Except*

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-6-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-0 max.): 1-2, 4-6. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 9=0-3-8 Max Horz 14=-83(LC 4) Max Uplift 14=-11(LC 9), 9=-66(LC 5) Max Grav 14=987(LC 1), 9=1141(LC 1)

7-9: 2x4 SPF No.2

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

 TOP CHORD
 2-3=-1438/40, 3-4=-1511/57, 4-5=-2692/132, 5-6=-2693/133, 6-7=-1523/65, 7-9=-1115/77

 BOT CHORD
 13-14=0/1339, 12-13=-18/1723, 10-12=-22/1376

 WIEDO
 13-14=0/1339, 12-13=-18/1723, 10-12=-22/1376

WEBS 2-14=-1565/27, 4-12=-64/1071, 5-12=-574/131, 6-12=-74/1380, 7-10=-32/1389, 3-13=-19/550, 4-13=-960/113, 2-13=-14/586

NOTES-

1) 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); 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.

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 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.

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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1-10-14	6-3-6	13-2-10		20-1-14	22-3-14
Plate Offsets (X,Y)	[2:0-3-7,Edge], [4:0-4-0,0-2-3], [6:0-4-9	Edge], [9:Edge,0-6-4], [10):0-2-8,0-2-8], [13:0-2-8,0-3	3-0]	2-2-0
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.98 BC 0.75 WB 0.98 Matrix-S	DEFL. in Vert(LL) -0.35 1 Vert(CT) -0.63 1 Horz(CT) 0.05 Wind(LL) 0.29 1	(loc) l/defl L/d 2-13 >766 360 2-13 >418 240 9 n/a n/a 2-13 >915 240	PLATES GRIP MT20 197/144 Weight: 95 lb FT = 10%
LUMBER- TOP CHORD 2x4 SF 4-6: 2x BOT CHORD 2x6 SF 9-11: 2 WEBS 2x3 SF 3-14,3	PF No.2 *Except* 4 SPF 2400F 2.0E PF 1650F 1.4E *Except* 2x6 SPF No.2 PF No.2 *Except* -13,7-9: 2x4 SPF No.2		BRACING- TOP CHORD S BOT CHORD F	Structural wood sheathing dii except end verticals, and 2-0 Rigid ceiling directly applied o 6-0-0 oc bracing: 9-10.	rectly applied or 2-7-14 oc purlins, -0 oc purlins (2-9-7 max.): 1-2, 4-6. or 10-0-0 oc bracing, Except:
REACTIONS. (siz Max H Max L Max G	e) 15=Mechanical, 9=0-3-8 lorz 15=-73(LC 4) lplift 15=-165(LC 9), 9=-283(LC 9) irav 15=1143(LC 1), 9=1230(LC 1)				OF MISSO
FORCES. (lb) - Max. TOP CHORD 1-15 5-6= BOT CHORD 13-1 WEBS 1-14 4-12	Comp./Max. Ten All forces 250 (lb) o =-1051/160, 1-2=-1295/209, 2-3=-1380/ -4374/855, 6-7=-1676/331, 7-9=-1311/2 4=-218/1594, 12-13=-670/3941, 10-12= =-235/1563, 2-14=-609/108, 3-14=-572/ =-144/543, 5-12=-537/235, 6-12=-531/2	r less except when shown 236, 3-4=-4208/788, 4-5= 84 -285/1585 130, 3-13=-639/3358, 4-1 846, 6-10=-434/125, 7-10	4374/855, 3=-2157/488, 321/1681		GARCIA
NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; \ MWFRS (envelope) grip DOL=1.60	e loads have been considered for this de /ult=115mph (3-second gust) Vasd=91n gable end zone; cantilever left and righ	esign. nph; TCDL=6.0psf; BCDL- t exposed ; end vertical le	=6.0psf; h=25ft; Cat. II; Exp ft and right exposed; Lumb	o C; Enclosed; er DOL=1.60 plate	SS/ONAL ENGINE
 3) Provide adequate d 4) This truss has been 5) * This truss has been will fit between the b 	rainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on pottom chord and any other members.	ve load nonconcurrent with the bottom chord in all are	n any other live loads. eas where a rectangle 3-6-0	0 tall by 2-0-0 wide	UAN GARCIA
6) Refer to girder(s) fo7) Provide mechanical 15=165, 9=283.	r truss to truss connections. connection (by others) of truss to bearing	ng plate capable of withsta	anding 100 lb uplift at joint(s) except (jt=lb)	(Josnoe)
 8) This truss is designed referenced standard 9) Graphical purlin rep 	ed in accordance with the 2018 Internati I ANSI/TPI 1. resentation does not depict the size or t	onal Residential Code sec	ctions R502.11.1 and R802	2.10.2 and	16952
10) Hanger(s) or other 10-6-7, 65 lb dowr down and 26 lb up lb down at 14-6-7. The design/selecti	connection device(s) shall be provided and 26 lb up at 12-6-7, 65 lb down and at 18-6-7 on top chord, and 250 lb down 19 lb down at 16-6-7, and 19 lb down on of such connection device(s) is the re	sufficient to support conce J 26 lb up at 14-6-7, and (nn and 74 lb up at 8-6-2, at 18-6-7, and 97 lb dowr esponsibility of others.	and give top and of botto sentrated load(s) 65 lb down 55 lb down and 26 lb up at 19 lb down at 10-6-7, 19 lb and 287 lb up at 20-1-14	and 26 lb up at 16-6-7, and 65 lb o down at 12-6-7, 19 on bottom chord.	SVONAL ENGINE
11) In the LOAD CASE	(S) section, loads applied to the face of	the truss are noted as fro	nt (F) or back (B).		March 12,2021
LOAD CASE(S) Stan WARNING - Verify Design valid for use of a truss system. Befor building design. Brac is always required for fabrication, storage, of Safety Information	dard design parameters and READ NOTES ON THIS AN nly with MITek® connectors. This design is based e use, the building designer must verify the applica ing indicated is to prevent buckling of individual tru stability and to prevent collapse with possible pers elivery, erection and bracing of trusses and truss s available from Truss Plate Institute. 2670 Crain hit	D INCLUDED MITEK REFERENCE only upon parameters shown, an bility of design parameters and p ss web and/or chord members o onal injury and property damage ystems, see ANSI/TPI hway, Suite 203 Waldorf. MD 20	E PAGE MII-7473 rev. 5/19/2020 B d is for an individual building comp roperly incorporate this design int y. Additional temporary and perr . For general guidance regarding Quality Criteria, DSB-89 and B(601	BEFORE USE. ponent, not o the overall manent bracing the CSI Building Component	16023 Swingley Ridge Rd Chesterfield, MO 63017

						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 102 RR	CONSTRUCTION
210331	G10	Roof Special Girder	1	1		AS NOTED ON PLANS REVIEW
210001					Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Wav	erly, KS - 66871,			8.430 s Fe	b 12 2021 MiTek Inc	ustries, In LEE GaSUMOUT 1 JULES OUBLE
		ID:Ej7E	WovY_94	Pzt7UVy1g	WAz_t70-aRgNADp	pn60Rwcr?789gXNRNhGodoluFahYIV0zbkqy
						04/06/2021
LOAD CASE(S) Standard	 	Dista la sus a 4.45				
 Dead + Roof Live (balar 	ced): Lumber Increase=1.15	5. Plate Increase=1.15				

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 7-8=-70, 9-15=-20

Concentrated Loads (lb)

Vert: 10=14(B) 16=-2(B) 17=-2(B) 18=-2(B) 19=-2(B) 20=-2(B) 21=-250(B) 22=-0(B) 23=-0(B) 24=-0(B) 25=-0(B) 26=-0(B) 26=-





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



4411111 March 12.2021



		4-4-4	4-4-4	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.03 7 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -0.05 7 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 7 >999 240	Weight: 29 lb FT = 10%
LUMBER-			BRACING-	

BOT CHORD

LUMBER-

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

REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=-23(LC 6) Max Uplift 8=-97(LC 8), 6=-97(LC 9) Max Grav 8=520(LC 1), 6=520(LC 1)

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

TOP CHORD 2-3=-343/51, 3-4=-343/51, 2-8=-447/123, 4-6=-447/123

NOTES-

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

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

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

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

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



11 1111 MIS

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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.

March 12,2021





		⊢	2-10-0			5-10-8 3-0-8	3-0-8			-8-8		
Plate Offse	ets (X,Y)	[7:Edge,0-1-8]	2-10-0			3-0-0			Ζ-	10-0		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.40	Vert(LL)	-0.04	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	8-9	>999	240		
BCLL	0.0 *	Rep Stress Inc	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018	/TPI2014	Matrix	k-S	Wind(LL)	0.02	8-9	>999	240	Weight: 32 lb	FT = 10%
LUMBER-						BRACING						

BOT CHORD

LUMBER-

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

REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=-24(LC 6) Max Uplift 10=-107(LC 4), 7=-107(LC 5) Max Grav 10=520(LC 1), 7=520(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-360/48, 3-4=-272/54, 4-5=-360/48, 2-10=-434/113, 5-7=-434/113

BOT CHORD 9-10=0/272, 8-9=0/272, 7-8=0/272

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=107, 7=107.

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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Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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







		1-2-13		7-5-11 6-2-14				8-8-8		
Plate Off	sets (X,Y)	[3:0-3-9,Edge], [4:0-3-9,Edge], [7:	Edge,0-3-8]							
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL)	-0.02	8 -9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.19	Vert(CT)	-0.04	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.09	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	-0.02	8-9	>999	240	Weight: 38 lb	FT = 10%
LUMBER	२-			BRACING						

BOT CHORD

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x6 SPF No.2
WEBS	2x3 SPF No.2 *Except*
	2-10 5-7 2x4 SPE No 2

No.2 REACTIONS. (size) 10=0-3-8, 7=0-3-8 Max Horz 10=24(LC 7) Max Uplift 10=-397(LC 29), 7=-397(LC 28) Max Grav 10=499(LC 45), 7=499(LC 44)

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

2-3=-401/415, 3-4=-350/289, 4-5=-395/413, 2-10=-303/225, 5-7=-309/232 TOP CHORD

BOT CHORD 9-10=-348/375, 8-9=-297/380, 7-8=-336/362

WEBS 3-9=-500/127, 4-8=-517/139

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=397, 7=397.
- 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) 45 lb down and 12 lb up at 1-2-13, 50 lb down and 12 lb up at 3-4-4, and 50 lb down and 12 lb up at 5-4-4, and 45 lb down and 12 lb up at 7-5-11 on top chord , and 141 lb down and 737 lb up at 1-2-13, 14 lb down and 16 lb up at 3-4-4, and 14 lb down and 16 lb up at 5-4-4, and 141 lb down and 737 lb up at 7-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Continued on page 2

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 102 RR	CONSTRUCTION
210331	нл	Hip Girder	1	1		AS NOTED ON PLANS REVIEW
210331			'		Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Wave	erly, KS - 66871,			3.430 s Fe	b 12 2021 MiTek Ind	ustries, In LEE GaSLMMIT202050482
		ID:Ej7E	EWovY_94	Pzt7UVy1	gWAz_t70-eK42JL?	DFjvIDvUtWowBeXY2bJ2xpIRS0WhaXezbkqj
						04/06/2021
LOAD CASE(S) Standard						

Concentrated Loads (lb) Vert: 9=53(B) 8=53(B)





	0- <u>0-5</u>	<u>2-10-0</u> 2-0-11	+	<u>8-5-0</u> 5-7-0	
Plate Offsets (X,Y)	[3:0-5-9,Edge], [4:Edge,0-2-8], [5:Edge,	0-2-8], [7:0-3-8,Edge]		5-1-0	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014	CSI. TC 0.77 BC 0.59 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.18 Vert(CT) -0.33 Horz(CT) 0.17 Wind(LL) 0.16	(loc) l/defl L/d 3 >544 360 3 >300 240 5 n/a n/a 6 >604 240	PLATES GRIP MT20 197/144 Weight: 28 lb FT = 10%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP 3-6: 2x WEBS 2x4 SP 4-5: 2x	F 2100F 1.8E F No.2 *Except* 3 SPF No.2, 3-5: 2x6 SPF No.2 F No.2 *Except* 3 SPF No.2		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	rectly applied or 6-0-0 oc purlins, or 6-0-0 oc bracing.
REACTIONS. (size Max H Max U Max G	e) 7=0-3-14, 5=Mechanical orz 7=109(LC 5) plift 7=-161(LC 4), 5=-109(LC 8) rav 7=577(LC 1), 5=481(LC 1)				OF MISS
FORCES. (lb) - Max. TOP CHORD 2-7=-	Comp./Max. Ten All forces 250 (lb) or 563/174, 4-5=-260/100	less except when shown.			JUAN 2
NOTES- 1) Wind: ASCE 7-16; V MWFRS (envelope) grip DOL=1.60 2) This truss has been 3) * This truss has been will fit between the b 4) Refer to girder(s) for 5) Provide mechanical 7=161, 5=109.	ult=115mph (3-second gust) Vasd=91m gable end zone; cantilever left and right designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members. truss to truss connections. connection (by others) of truss to bearin	ph; TCDL=6.0psf; BCDL= exposed ; end vertical lef e load nonconcurrent with he bottom chord in all are g plate capable of withsta	6.0psf; h=25ft; Cat. II; E t and right exposed; Lun any other live loads. as where a rectangle 3-f nding 100 lb uplift at joir	xp C; Enclosed; hber DOL=1.60 plate 6-0 tall by 2-0-0 wide ht(s) except (jt=lb)	ARCIA NUMBER D. E-2000162101
 6) This truss is designer eferenced standard 7) Hanger(s) or other corect 2-1-6, 63 lb down and down and 67 lb up a down at 5-3-12, and responsibility of other 8) In the LOAD CASE(5) 	d in accordance with the 2018 Internation ANSI/TPI 1. onnection device(s) shall be provided suid a 36 lb up at 2-4-9, 108 lb down and 63 t 7-6-1 on top chord, and 18 lb down and t 63 lb down and 27 lb up at 7-6-1 on bo rs. S) section, loads applied to the face of the	onal Residential Code sec ifficient to support concen is lb up at 4-11-5, and 97 l id 21 lb up at 2-1-6, 3 lb c ottom chord. The design/s he truss are noted as front	tions R502.11.1 and R80 trated load(s) 72 lb down b down and 51 lb up at fown at 2-4-9, 3 lb down selection of such connec t (F) or back (B).	02.10.2 and n and 134 lb up at 5-3-12, and 98 lb n at 4-11-5, and 24 lb tion device(s) is the	16952
LOAD CASE(S) Stand 1) Dead + Roof Live (b) Uniform Loads (plf) Vert: 1-2=-7 Concentrated Loads Vert: 8=35(f	dard alanced): Lumber Increase=1.15, Plate (0, 2-3=-70, 3-4=-70, 6-7=-20, 3-5=-20 (lb) 3) 9=-40(F) 10=-4(B) 11=-62(F) 14=-16(ncrease=1.15 B) 15=-63(F)			PROX HANSAS





		2-3	3-8	
Plate Offsets (X,Y)	[3:0-2-11,0-1-8]			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.22	DEFL. in (loc) I/defl L/d PLATES GRIP Vert(LL) -0.02 6 >999 360 MT20 197/144	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.01 Matrix-P	Vert(CT) -0.04 6 >925 240 Horz(CT) 0.02 5 n/a n/a Wind(LL) 0.03 6 >999 240 Weight: 11 lb FT = 10	0%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x3 SPF No.2

 WEDGE
 Left: 2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=75(LC 8) Max Uplift 4=-52(LC 8), 2=-34(LC 8)

Max Grav 4=129(LC 1), 2=240(LC 1), 5=37(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) 4, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 3-7-7 oc purlins.

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





			2-3-8 2-3-8	4-0-14 1-9-6	
Plate Offsets (X,Y)	[3:0-2-4,0-1-12], [7:0-5-6,0-1-8]				
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15	CSI. TC 0.28 BC 0.12	DEFL. in Vert(LL) -0.02 Vert(CT) -0.04	(loc) l/defl L/d 6 >999 360 6 >999 240	PLATES GRIP MT20 197/144

BCDL 10.	.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.0	2	5 n/a 6 >999	240	Weight: 14 lb	FT = 10%
LUMBER-	044.00			BRACING-	Chris			reatly applied on 4.0.44	
TOP CHORD	2X4 SP	F NO.2		TOP CHORD	Siru	ciural wood	i sheathing di	ecuy applied of 4-0-14	oc punins,
BOT CHORD	2x4 SP	F No.2			exce	pt end vert	icals.		
WEBS	2x4 SP	F No.2 *Except*		BOT CHORD	Rigi	d ceiling dir	ectly applied	or 6-0-0 oc bracing.	

REACTIONS. (size) 7=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 7=79(LC 4) Max Uplift 7=-117(LC 4), 4=-39(LC 8) Max Grav 7=361(LC 1), 4=96(LC 1), 5=70(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-329/128

NOTES-

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

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

3-6: 2x3 SPF No.2

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 7=117.
- 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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	[0.0 0 0,0 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 0.28 BC 0.08 WB 0.00 Matrix-R	DEFL. in (loc) I/defl L/d Vert(LL) 0.00 5 >999 360 Vert(CT) 0.00 4-5 >999 240 Horz(CT) -0.00 3 n/a n/a Wind(LL) -0.00 5 >999 240

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-6-14 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=46(LC 4) Max Uplift 5=-143(LC 4), 3=-22(LC 1), 4=-16(LC 1)

Max Grav 5=306(LC 1), 3=16(LC 4), 4=18(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-262/142

NOTES-

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

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5 = 143

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



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MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



				<u>2-3-8</u> 2-3-8	5-2-10	
Plate Of	fsets (X,Y)	[3:0-0-0,0-0-1]				
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES	GRIP
TCLL TCDI	25.0 10.0	Plate Grip DOL	1.15 1.15	TC 0.48 BC 0.33	Vert(LL) -0.06 3 >999 360 MT20 Vert(CT) -0.10 3 >583 240	197/144

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.07

0.06

5

3

n/a

>966

n/a

240

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

Structural wood sheathing directly applied or 5-2-10 oc purlins.

LUMBER-

BCLL

BCDL

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

0.0

10.0

3-6: 2x3 SPF No.2 WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical Max Horz 2=102(LC 8)

Max Uplift 4=-58(LC 8), 2=-44(LC 8), 5=-6(LC 8)

Rep Stress Incr

Code IRC2018/TPI2014

Max Grav 4=135(LC 1), 2=304(LC 1), 5=87(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

WB

Matrix-R

0.00

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

YES

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



FT = 10%

Weight: 15 lb

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			2-0-4					
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 0.06 BC 0.03 WB 0.00 Matrix-P	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00 Wind(LL) 0.00	(loc) 2 2-4 3 2	l/defl >999 >999 n/a ****	L/d 360 240 n/a 240	PLATES MT20 Weight: 6 lb	GRIP 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE Left: 2x3 SPF No.2

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

Max Horz 2=48(LC 8) Max Uplift 3=-33(LC 8), 2=-36(LC 4)

Max Grav 3=43(LC 1), 2=173(LC 1), 4=36(LC 3)

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

NOTES-

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

JUAN GARCIA D NUMBER E-2000162101 SS/ONALENGIN D NUMBER E-2000162101 UNAN GARCIA UCENSES 16952 D 16952

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

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

March 12,2021





LOADING (psf)	SPACING-	2-0-0	CSL	DEFL	in (loc) l/defl	l /d	PLATES	GRIP	
Plate Offsets (X,Y)	[3:0-2-12,0-2-9]								
		Г	2-3-8	I	3-7-12		٦ 		
		1	2-3-8	1	5-11-4		1		

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	0.60	Vert(LL)	-0.10	6	>711	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.17	6	>397	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.11	5	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.10	6	>705	240	Weight: 18 lb	FT = 10%	
LUMBER	-					BRACING-							

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* 3-6: 2x3 SPF No.2 WEBS 2x3 SPF No.2 WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 5=Mechanical, 2=0-3-8 Max Horz 2=104(LC 5) Max Uplift 5=-61(LC 8), 2=-58(LC 8) Max Grav 5=250(LC 1), 2=334(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) 5, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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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.





					5-11-4							
	i (psf) 25.0	SPACING- 2-0-() CSI.	0.60	DEFL.	in -0.06	(loc) 2-4	l/defl ∽999	L/d 360	PLATES	GRIP 197/144	
TCDL	10.0	Lumber DOL 1.1	5 BC	0.35	Vert(CT)	-0.13	2-4	>544	240 n/a		1077111	
BCDL	10.0	Code IRC2018/TPI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 18 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2 Left: 2x3 SPF No.2

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

Max Horz 2=120(LC 5) Max Uplift 4=-59(LC 8), 2=-60(LC 8) Max Grav 4=250(LC 1), 2=334(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 3Ì will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.

March 12.2021





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 0.67 BC 0.36 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d PLATE Vert(LL) n/a - n/a 999 MT20 Vert(CT) n/a - n/a 999 MT20 Horz(CT) -0.00 3 n/a n/a Weight	S GRIP 197/144 : 17 lb FT = 10%
LUMBER-			BRACING-	

BOT CHORD

LUMBER-

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

Left: 2x3 SPF No.2 REACTIONS.

(size) 3=5-11-4, 1=5-11-4 Max Horz 1=118(LC 5) Max Uplift 3=-62(LC 8), 1=-36(LC 8) Max Grav 3=263(LC 1), 1=263(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) 3, 1.

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



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 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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			5-0-4 5-0-4	
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 0.30 BC 0.20 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: 15 lb FT = 10%

LUMBER-

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 5-0-4 oc purlins, except end verticals. Rigid egiling directly applied or 10-0-0 oc bracing

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=101(LC 8) Max Uplift 5=-66(LC 4), 3=-75(LC 8) Max Grav 5=388(LC 1), 3=138(LC 1), 4=88(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-340/110

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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		<u>3-5-1</u> 3-5-1							
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.28 BC 0.08 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 4-5 >999 360 Vert(CT) -0.01 4-5 >999 240 Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4-5 >999 240	PLATES GRIP MT20 197/144 Weight: 11 lb FT = 10%					

LUMBER-

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

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-5-1 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=73(LC 8) Max Uplift 5=-71(LC 4), 3=-48(LC 8) Max Grav 5=330(LC 1), 3=77(LC 1), 4=57(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-289/94

NOTES-

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



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							1.	-9-13				
LOADING	í (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	(-R	Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%

BOT CHORD

LUMBER-

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-9-13 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=53(LC 5) Max Uplift 5=-87(LC 4), 3=-14(LC 8), 4=-7(LC 1)

Max Grav 5=302(LC 1), 3=4(LC 4), 4=24(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-262/96

NOTES-

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd Chesterfield, MO 63017


Plate Offse	ets (X,Y)	[5:0-5-6,0-1-8]											
	(psf) 25.0	SPACING- Plate Grip DOI	2-0-0	CSI.	0.29	DEFL.	in -0.03	(loc)	l/defl	L/d 360	PLATES	GRIP	
TCDL BCLL	10.0 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.20 0.00	Vert(CT) Horz(CT)	-0.05 -0.00	4-5 4	>999 n/a	240 n/a	WILLO	131/144	
BCDL	10.0	Code IRC2018/TF	912014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 17 lb	FT = 10%	
LUMBER-						BRACING-							

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 3-4: 2x3 SPF No.2

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-3-14 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=112(LC 5) Max Uplift 5=-136(LC 4), 4=-43(LC 8) Max Grav 5=398(LC 1), 4=200(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-352/170

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=136.
- 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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			L		2-9-14				
			I		2-9-14		I		
s (X,Y)	[5:0-5-6,0-1-8]								
psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl	L/d	PLATES	GRIP	
25.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	0.00 4-5 >999	360	MT20	197/144	

LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.00) 4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.07	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: 9 lb	FT = 10%	
LUMBER	-			BRACING-						

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

Plate Offset

BOT CHORD2x4 SPF No.2WEBS2x4 SPF No.2

 TOP CHORD
 Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals.

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

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

Max Horz 5=62(LC 4) Max Uplift 5=-124(LC 4), 3=-31(LC 8)

Max Grav 5=314(LC 1), 3=52(LC 1), 4=44(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-273/139

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) 3 except (jt=lb) 5=124.

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



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			•	5-11-4
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.04 4-5 >999 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) -0.09 4-5 >773 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.02 4-5 >999 240 Weight: 19 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No 2 TOP CHORD BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* WEBS 3-4: 2x3 SPF No.2

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

Max Horz 5=150(LC 5) Max Uplift 5=-85(LC 8), 4=-56(LC 8)

Max Grav 5=423(LC 1), 4=231(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-373/129

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, 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.







				5-11-4	
LOADING	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.50	DEFL. in (loc) I/defl L/d PLATES GRIP Vert/LL) -0.05 3-4 >999 360 MT20 197/144	_
TCDL	10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.10 3-4 >707 240	
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.02 3-4 >999 240 Weight: 17 lb FT = 10%	

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. (size) 4=0-3-8, 3=Mechanical Max Horz 4=133(LC 5) Max Uplift 4=-33(LC 8), 3=-63(LC 8)

Max Grav 4=258(LC 1), 3=258(LC 1)

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

NOTES-

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



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

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

except end verticals.





LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.09	4-5	>764	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	-0.02	4-5	>999	240	Weight: 26 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x6 SPF 1650F 1.4E

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2 *Except*

 3-4: 2x3 SPF No.2

REACTIONS. (size) 5=0-5-10, 4=Mechanical

Max Horz 5=108(LC 5) Max Uplift 5=-212(LC 4), 4=-54(LC 8)

Max Grav 5=926(LC 41), 4=229(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-849/249

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=212.
- 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) Load case(s) 40, 41 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 36 lb up at 3-0-9, and 68 lb down and 65 lb up at 3-0-14, and 67 lb down and 54 lb up at 5-7-10 on top chord, and 9 lb down and 7 lb up at 3-0-9, and 10 lb down and 16 lb up at 3-0-14, and 24 lb down at 5-7-10 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 Except:

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

Uniform Loads (plf) Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 7=-20(B) 8=7(F) 9=-8(B)

Continued on page 2

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



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

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

except end verticals.



16023 Swingley Ridge Rd Chesterfield, MO 63017

					RELEASE FOR
Job Truss	Truss Type	Qty	Ply	Lot 102 RR	CONSTRUCTION
210331	Diagonal Hip Girder	2	1		AS NOTED ON PLANS REVIEW
		-		Job Reference (opt	ional) DEVELOPMENT SERVICES
Wheeler Lumber, Waverly, KS - 66871,		8	3.430 s Fel	b 12 2021 MiTek Inc	ustries, Inc. EFE BaS 120001173702125 Object
	ID:Ej	7EWovY_94P	zt7UVy1g\	NAz_t70-t37SCQ6t7	U11olgcXBalVRQXOx5PQq5n5QMZLdzbkqa
LOAD CASE(S)					04/06/2021

40) Reversal: User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F)

Concentrated Loads (lb)

Vert: 1=-250 6=1(B) 7=-20(B) 8=22(F=7, B=16) 9=-8(B) 41) User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F)

Concentrated Loads (lb)

Vert: 1=-250 7=-20(B) 8=7(F) 9=-8(B)





		0 <u>-2-0</u> 0-2-0	3-5-10 3-3-10	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 0.28 BC 0.08 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 4-5 >999 360 Vert(CT) -0.01 4-5 >999 240 Horz(CT) -0.00 3 n/a n/a Wind(LL) 0.00 4-5 >999 240	PLATES GRIP MT20 197/144 Weight: 11 lb FT = 10%

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

BRACING-

BOT CHORD

Structural wood sheathing directly applied or 3-5-10 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=74(LC 8) Max Uplift 5=-71(LC 4), 3=-49(LC 8) Max Grav 5=332(LC 1), 3=79(LC 1), 4=58(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-290/95

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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			0-2-0		1-10	-7 -7			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.28 BC 0.08 WB 0.00 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 0.00 -0.01 -0.00	(loc) 4-5 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%

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

2x4 SPF No.2

REACTIONS. 3=Mechanical, 4=Mechanical, 5=0-3-8 (size) Max Horz 5=53(LC 5)

Max Uplift 3=-16(LC 8), 4=-6(LC 1), 5=-86(LC 4)

Max Grav 3=5(LC 19), 4=25(LC 3), 5=302(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-262/95

NOTES-

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-10-7 oc purlins, except end verticals.

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



0-8-8	2-9-14	
0-8-8	2-1-6	

LOADING TCLL TCDL	G (psf) 25.0 10.0	SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1.	0 CSI. 5 TC 0.30 5 BC 0.36	DEFL. Vert(LL) Vert(CT)	in 0.01 0.01	(loc) 4-5 4-5	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YE Code IRC2018/TPI201	S WB 0.00 4 Matrix-R	Horz(CT) Wind(LL)	-0.03 -0.01	3 4-5	n/a >999	n/a 240	Weight: 9 lb	FT = 10%

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

Plate Offsets (X Y)-- [6:0-5-6 0-1-8]

BRACING-TOP CHORD Structural wood sheathing except end verticals. BOT CHORD Rigid ceiling directly appli

Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=62(LC 4) Max Uplift 3=-25(LC 8), 4=-78(LC 1), 5=-187(LC 4) Max Grav 3=25(LC 1), 4=55(LC 4), 5=430(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-300/150

NOTES-

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

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=187.

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



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Plate Off	Plate Offsets (X,Y) [5:0-5-6,0-1-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	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/TF	PI2014	Matri	k-R	Wind(LL)	-0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

LOWIDER-

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-9-14 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=62(LC 4) Max Uplift 5=-124(LC 4), 3=-31(LC 8)

Max Grav 5=314(LC 1), 3=52(LC 1), 4=44(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-273/139

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) 3 except (jt=lb) 5=124.

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



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		0 <u>-2-0</u> 0-2-0	<u>3-11-4</u> 3-9-4		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 0.28 BC 0.11 WB 0.00 Matrix-R	DEFL. in (loc) I Vert(LL) -0.01 4-5 > Vert(CT) -0.02 4-5 > Horz(CT) -0.01 3 Wind(LL) 0.01 4-5 >	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES GRIP MT20 197/144 Weight: 12 lb FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=82(LC 8) Max Uplift 5=-69(LC 4), 3=-57(LC 8) Max Grav 5=348(LC 1), 3=98(LC 1), 4=67(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-305/97

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.

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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.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



		I	5-6-6	L
		Γ	5-6-6	
Plate Offsets (X,Y)	[5:0-5-5,0-1-8]			

LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.63 BC 0.23 WB 0.00 Matrix-R	DEFL. in Vert(LL) -0.03 Vert(CT) -0.06 Horz(CT) 0.00 Wind(LL) -0.02	(loc) 4-5 4-5 4 4-5	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 18 lb	GRIP 197/144 FT = 10%	
			BRACING-					

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 3-4: 2x3 SPF No.2

TOP CHORD except end verticals. BOT CHORD

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

REACTIONS. (size) 5=0-4-9, 4=Mechanical Max Horz 5=88(LC 5) Max Uplift 5=-186(LC 4), 4=-31(LC 8)

Max Grav 5=485(LC 1), 4=186(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-429/217

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=186.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 14 lb up at 2-9-8, and 70 lb down and 14 lb up at 2-9-8 on top chord, and 14 lb down and 16 lb up at 2-9-8, and 14 lb down and 16 lb up at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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







1	1-10-15	
1	1-10-15	
	1-10-15	

OADIN	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)	0.00	4-5	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
SCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 5=51(LC 4) Max Uplift 5=-134(LC 4), 3=-13(LC 8), 4=-7(LC 1)

Max Grav 5=302(LC 1), 3=5(LC 18), 4=26(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-260/138

NOTES-

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5 = 134

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



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Plate Offsets (X,Y)	[5:0-5-6,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.01 4-5 >999 360 MT20 197/1	44
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.02 4-5 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240 Weight: 13 lb FT	= 10%
	1		PRACINC	

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 3-4: 2x3 SPF No.2

BRACING-TOP CHORD 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. (size) 5=0-3-8, 4=Mechanical Max Horz 5=93(LC 5) Max Uplift 5=-132(LC 4), 4=-27(LC 8) Max Grav 5=348(LC 1), 4=131(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-308/154

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=132
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Plate Offsets (X,Y)	[5:0-5-6,0-1-8]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr. YES	CSI. TC 0.28 BC 0.05 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 4-5 >999 240 MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00 5 >999 240 Weight: 11 lb FT = 10%
			RPACING.

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2 *Except*

 3-4: 2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=78(LC 5) Max Uplift 5=-133(LC 4), 4=-17(LC 5)

Max Grav 5=317(LC 1), 4=72(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-279/145

NOTES-

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=133.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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LOADING (psf)SPACING- Plate Grip DOL2-0-0CSI.TCLL25.0Plate Grip DOL1.15TCTCDL10.0Lumber DOL1.15BC		DEFL.	in (l	loc) l	l/defl L	_/d PL/	ATES G	RIP
TCDI 10.0 Lumber DOI 1.15 BC	0.10 V	Vert(LL) -0	0.00	3-4 >	>999 36	60 MT	20 1	97/144
BCLL 0.0 * Rep Stress Incr YES WB BCDL 10.0 Code IRC2018/TPI2014 Matrix-	0.06 V 0.00 H -R V	Vert(CT) -0 Horz(CT) -0 Wind(LL) 0	0.01 0.00 0.00	3-4 > 3 4 >	>999 24 n/a n >999 24	40 n/a 40 We	ight: 8 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

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

2x3 SPF No.2

REACTIONS. 4=0-3-8, 3=Mechanical (size) Max Horz 4=63(LC 5)

Max Uplift 4=-19(LC 4), 3=-29(LC 8)

Max Grav 4=126(LC 1), 3=126(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) 4, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Structural wood sheathing directly applied or 3-0-0 oc purlins,

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

except end verticals.





		2-0-0	1		4	4-0-0		5-0-0	1
		2-0-0	T		2	2-0-0		1-0-0	
Plate Offsets (X,Y)	[3:0-3-8,0-2-5], [8:0-5-6,0-1-8]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in ((loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL)	-0.01	7 :	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT)	-0.01	6-7 :	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.00	7 :	>999	240	Weight: 19 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD

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

(size) 8=0-3-8, 6=Mechanical Max Horz 8=78(LC 5) Max Uplift 8=-166(LC 4), 6=-52(LC 8) Max Grav 8=364(LC 1), 6=170(LC 1)

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

NOTES-

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

2) Provide adequate drainage to prevent water ponding.

2-8=-313/160

- 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) 6 except (jt=lb) 8=166.
- 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) 59 lb down and 126 lb up at 2-0-0 on top chord, and 29 lb down and 60 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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





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

except end verticals, and 2-0-0 oc purlins: 3-4.

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





TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

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

REACTIONS.

(size) 7=0-3-8, 5=Mechanical Max Horz 7=95(LC 5) Max Uplift 7=-137(LC 4), 5=-32(LC 5)

Max Grav 7=385(LC 1), 5=184(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-7=-326/156

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=137
- 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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Structural wood sheathing directly applied or 5-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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





			1			5-0-0				1	
						5-0-0					
Plate Offsets (X,Y)	[5:0-5-6,0-1-8]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.04	4-5	>999	240		
3CLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 16 lb	FT = 10%
			-								

 TOP CHORD
 2x4 SPF No.2

 BOT CHORD
 2x4 SPF No.2

 WEBS
 2x4 SPF No.2 *Except*

 3-4: 2x3 SPF No.2

BRACING-TOP CHORD St ex BOT CHORD Ri

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

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=108(LC 5) Max Uplift 5=-134(LC 4), 4=-40(LC 8) Max Grav 5=385(LC 1), 4=184(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-340/166

NOTES-

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=134.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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	-				BRACING-		0				
BCDL	10.0	Code IRC2018/TPI20	014 Ma	trix-R	Wind(LL)	0.03	4-5	>999	240	Weight: 21 lb	FT = 10%
BCLL	0.0 *	Rep Stress Incr	YES WE	0.00	Horz(CT)	0.00	4	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15 BC	0.38	Vert(CT)	-0.17	4-5	>472	240		
TCLL	25.0	Plate Grip DOL	1.15 TC	0.58	Vert(LL)	-0.08	4-5	>985	360	MT20	197/144
	G (psf)	SPACING- 2	2-0-0 CS	I.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
Plate Offs	sets (X,Y)	[4:Edge,0-2-8], [5:0-5-6,0-1-	8]								

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 3-4: 2x3 SPF No.2

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

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=137(LC 5) Max Uplift 5=-144(LC 4), 4=-62(LC 8) Max Grav 5=466(LC 1), 4=283(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-412/192

NOTES-

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=144.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Plate Off	late Offsets (X,Y) [5:0-5-5,0-1-8]											
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	0.61	Vert(LL)	0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	912014	Matri	x-R	Wind(LL)	-0.01	4-5	>999	240	Weight: 10 lb	FT = 10%

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

BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 5=52(LC 7) Max Uplift 5=-158(LC 4), 3=-42(LC 17), 4=-26(LC 1) Max Grav 5=276(LC 1), 3=23(LC 4), 4=28(LC 4)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=158.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 16 lb up at -2-7-13, and 46 lb down and 16 lb up at -2-7-13 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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



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							7-7	-0				
Plate Off	fsets (X,Y)	[3:Edge,0-2-8], [4:Edge,0)-2-8], [5:0-3-1	10,0-2-8]			7-0-	• • • •				
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	тс	0.81	Vert(LL)	-0.04	`4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.08	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	k-R	Wind(LL)	0.02	4-5	>999	240	Weight: 27 lb	FT = 10%
											- i	

 LUMBER BRACING

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

 BOT CHORD
 2x6 SPF No.2 *Except* 3-4: 2x3 SPF No.2
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-14, 4=Mechanical Max Horz 5=115(LC 22) Max Uplift 5=-191(LC 4), 4=-91(LC 8)

Max Grav 5=553(LC 1), 4=380(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-501/250, 3-4=-261/131

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=191.
- 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) 64 lb down and 38 lb up at 2-6-8, 77 lb down and 29 lb up at 3-4-9, and 89 lb down and 71 lb up at 5-1-4, and 101 lb down and 78 lb up at 6-6-15 on top chord , and 4 lb down at 2-6-8, 10 lb down and 8 lb up at 3-4-9, and 20 lb down at 5-1-4, and 39 lb down at 6-6-15 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=-23(F) 9=-52(B) 11=8(B) 12=-10(F) 13=-24(B)



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				6-0-0	
				6-0-0	
Plate Off	fsets (X,Y)	[5:0-5-6,0-1-8]			
LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.05 4-5 >999 360 MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.11 4-5 >632 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03 3 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.04 4-5 >999 240 Weight: 17 lb FT = 10%	

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 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=106(LC 4) Max Uplift 5=-127(LC 4), 3=-82(LC 8)

Max Grav 5=427(LC 1), 3=173(LC 1), 4=107(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-374/174

NOTES-

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

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5 = 127

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



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			1	5-	-0-12		1		
			1	5-	-0-12		1		
Plate Offsets (X,Y)	[5:0-5-6,0-1-8]								
LOADING (pst)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	-0.03 4-5	>999 360	MT20	197/144	

			BRACING-	Structu	rol wood shoothing di	inactly applied or 5.0.12	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0	.02 4-5	>999 240	Weight: 15 lb	FT = 10%
TCDL 10.0 BCU 0.0 *	Lumber DOL 1.15 Rep Stress Incr. YES	BC 0.20	Vert(CT) -0. Horz(CT) 0	0.05 4-5	>999 240		
TCLL 25.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.	.03 4-5	>999 360	MT20	197/144
LOADING (psi)	3FACING- 2-0-0	031.	DEFL.	III (IUC)	i/ueii L/u	FLATES	GRIF

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-0-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=93(LC 4) Max Uplift 5=-124(LC 4), 3=-68(LC 8)

Max Grav 5=389(LC 1), 3=140(LC 1), 4=89(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-341/162

NOTES-

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=124.

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



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						2-6	5-12 5-12				
Plate Offs	ets (X,Y)	[5:0-5-6,0-1-8]					-				
LOADING	i (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (I	loc) I/d	efl L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	0.00	4-5 >99	99 360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00	4-5 >99	99 240			
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3 r	n/a n/a			

Wind(LL)

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BCDL

Pla

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

10.0

BRACING-TOP CHORD BOT CHORD

-0.00

Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 9 lb

240

>999

4-5

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

Max Horz 5=59(LC 4) Max Uplift 5=-126(LC 4), 3=-26(LC 8)

Max Grav 5=308(LC 1), 3=39(LC 1), 4=38(LC 3)

Code IRC2018/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-267/137

NOTES-

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

Matrix-R

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5 = 126

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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FT = 10%





	F		3-8-10 3-8-10	———————————————————————————————————————	
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 0.12 WB 0.00 Matrix-P	DEFL. in (loc) l/defl Vert(LL) -0.01 2-4 >999 Vert(CT) -0.02 2-4 >999 Horz(CT) -0.00 3 n/a Wind(LL) 0.00 2 *****	L/d PLATES GRIP 360 MT20 197/144 240 n/a 240 Weight: 10 lb FT =	10%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE Left: 2x3 SPF No.2

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

Max Horz 2=77(LC 8) Max Uplift 3=-66(LC 8), 2=-37(LC 8)

Max Grav 3=113(LC 1), 2=240(LC 1), 4=70(LC 3)

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

NOTES-

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

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Structural wood sheathing directly applied or 3-8-10 oc purlins.

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





			2-1-7					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.06 BC 0.03 WB 0.00 Matrix-P	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00 Wind(LL) 0.00	(loc) 2 2-4 3 2	l/defl >999 >999 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 7 lb	GRIP 197/144 FT = 10%

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEDGE Left: 2x3 SPF No.2

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

Max Horz 2=49(LC 8) Max Uplift 3=-35(LC 8), 2=-35(LC 4)

Max Grav 3=48(LC 1), 2=177(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) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

JUAN GARCIA NUMBER E-2000162101 SS/ONALENG 16952 BOR GARCIA CENSES 16952 BOR GARCIA CENSES

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MITEK 16023 Swingley Ridge Rd Chesterfield, MO 63017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 2-1-7 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



Flate Olis	els (A, f)	[2.0-2-1,0-2-0], [4.Euge,0	J-4-0]										
LOADING	í (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.00	5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	5	>999	240			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.00	4	n/a	n/a			
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P	Wind(LL)	0.00	5	****	240	Weight: 15 lb	FT = 10%	

 TOP CHORD
 2x6 SPF 1650F 1.4E

 BOT CHORD
 2x6 SPF No.2

 WEBS
 2x3 SPF No.2

BRACING-TOP CHORD Struc excel

BOT CHORD

Structural wood sheathing directly applied or 1-7-4 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-11, 4=Mechanical

Max Horz 5=92(LC 5) Max Uplift 5=-278(LC 4), 4=-734(LC 21) Max Grav 5=1327(LC 21), 4=123(LC 4)

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

TOP CHORD 2-5=-1313/286, 3-4=-142/748

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) except (jt=lb) 5=278, 4=734.

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) Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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 Except:

21) User defined: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F) Concentrated Loads (lb) Vert: 1=-250







				1-10-4
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) 0.00 5 >999 240 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 5 >999 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.02 3 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Weight: 8 lb FT = 10%
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Weight: 8 lb FT = 10%

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

BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-10-4 oc purlins, except end verticals.

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

REACTIONS. 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=64(LC 5) Max Uplift 5=-107(LC 4), 3=-23(LC 5), 4=-12(LC 5) Max Grav 5=296(LC 1), 3=6(LC 19), 4=32(LC 3)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-270/132

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=107.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Plate Offsets (A, f)	[3.Euge,0-2-0]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.83 BC 0.21 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) 0.00 5 >999 360 MT20 197/144 Vert(CT) 0.00 4-5 >999 240 Horz(CT) 197/144 Wind(LL) -0.00 4 n/a n/a Weight: 12 lb FT = 10%

2x6 SPF 1650F 1.4E TOP CHORD BOT CHORD 2x6 SPF No.2 WEBS 2x6 SPF No.2 *Except* 3-4: 2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-7-9 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=0-4-11, 4=Mechanical Max Horz 5=66(LC 7) Max Uplift 5=-314(LC 4), 4=-846(LC 21)

Max Grav 5=1438(LC 21), 4=155(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-1210/287, 3-4=-112/643

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) except (jt=lb) 5=314. 4=846
- 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) Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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 Except:

- 21) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F) Concentrated Loads (lb)
 - Vert: 1=-250



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March 12.2021





1-10-8	
1-10-8	

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.00 4-5 >999 360 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00 4-5 >999 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00 5 >999 240 Weight: 7 lb FT = 10%

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

Plate Offsets (X V)-- [5:0-5-6 0-1-8]

BRACING-TOP CHORD BOT CHORD

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

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

Max Horz 5=50(LC 4) Max Uplift 5=-135(LC 4), 3=-12(LC 8), 4=-8(LC 1)

Max Grav 5=302(LC 1), 3=4(LC 19), 4=25(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-260/138

NOTES-

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

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

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=135.

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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3-3-10

Plate Offs	sets (X,Y)	[4:Edge,0-2-8]										
LOADING	(psf)	SPACING-	2-0-0	CSL		DEFL	in	(loc)	l/defl	l /d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	0.01	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	-0.00	4-5	>999	240	Weight: 19 lb	FT = 10%
LUMBER	-					BRACING-					ŀ	

TOP CHORD 2x6 SPF 1650F 1.4E BOT CHORD 2x6 SPF No.2 WEBS

2x6 SPF No.2 *Except* 3-4: 2x3 SPF No.2

TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except end verticals. BOT CHORD

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

REACTIONS. (size) 5=0-4-11, 4=Mechanical Max Horz 5=85(LC 7)

Max Uplift 5=-231(LC 4), 4=-261(LC 37) Max Grav 5=1000(LC 37), 4=100(LC 21)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-5=-857/233

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=231, 4=261
- 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) Load case(s) 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 28 lb up at 2-8-7 on top chord, and 14 lb down and 8 lb up at 2-8-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

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

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

Continued on page 2

🔺 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 102 RR	CONSTRUCTION
210331	.]44	Diagonal Hip Girder	1	1		AS NOTED ON PLANS REVIEW
210001					Job Reference (opt	onal) DEVELOPMENT SERVICES
Wheeler Lumber, Wave	erly, KS - 66871,			8.430 s Fe	b 12 2021 MiTek Inc	ustries, InLEFE BaS12M6/9T57/2025 ObgB2
		ID:Ej7EV	VovY_94P	zt7UVy1g\	NAz_t70-HvK0PGL0	QeZBBMCSiOx_JfFys?wR6t2jhXCd2SzbkqG
						04/06/2021
37) User defined: Lumber I	ncrease=1 15 Plate Increas	e=1 15				

 37) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F) Concentrated Loads (lb)

Vert: 1=-250 7=8(F)





			3-2-8		
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.14	DEFL. in (I Vert(LL) -0.01	loc) l/defl L/d 3-4 >999 360	PLATES GRIP MT20 197/144
ICDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	BC 0.26 WB 0.00 Matrix-R	Vert(CT) -0.01 Horz(CT) 0.00 Wind(LL) 0.00	3-4 >999 240 3 n/a n/a 3-4 >999 240	Weight: 11 lb FT = 10%

TOP CHORD2x4 SPF No.2BOT CHORD2x6 SPF No.2WEBS2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 3=Mechanical Max Horz 4=63(LC 5) Max Uplift 4=-56(LC 4), 3=-54(LC 8)

Max Grav 4=347(LC 1), 3=270(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
 - referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 347 lb down and 67 lb up at 1-3-4 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, 3-4=-20 Concentrated Loads (lb) Vert: 5=-347(F)







					3-2-8				
Offsets (X,Y)	[5:0-5-6,0-1-8]								
DING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl	L/d	PLATES	GRIP	

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 0.28	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.06	Vert(CT)	-0.01	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: 10 lb	FT = 10%	
											_

Plate

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 5=49(LC 4) Max Uplift 5=-76(LC 4), 3=-23(LC 8)

Max Grav 5=324(LC 1), 3=69(LC 1), 4=52(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-283/94

NOTES-

 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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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				H			1-10-2 1-9-11		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.83 BC 0.19 WB 0.00 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 0.00 -0.00 -0.00	(loc) 5 5 4 5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT18HS Weight: 13 lb	GRIP 197/144 197/144 FT = 10%

TOP CHORD

BOT CHORD

LUMBER-

 TOP CHORD
 2x6 SPF 1650F 1.4E

 BOT CHORD
 2x6 SPF No.2

 WEBS
 2x6 SPF No.2 *Except*

 3-4: 2x4 SPF No.2

REACTIONS. (size) 5=0-4-11, 4=Mechanical

Max Horz 5=68(LC 7) Max Uplift 5=-295(LC 4), 4=-731(LC 21)

Max Grav 5=1340(LC 21), 4=134(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-1121/271, 3-4=-92/542

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) All plates are MT20 plates unless otherwise indicated.

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) except (jt=lb) 5=295, 4=731.
- 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.
- Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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 Except:

21) User defined: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F) Concentrated Loads (lb)

Vert: 1=-250



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Structural wood sheathing directly applied or 1-10-2 oc purlins,

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

except end verticals.




	3013 (7, 1)	[5:0 5 0;0 1 0]		
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.00 4-5 >999 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00 4-5 >999 240
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00 5 >999 240 Weight: 8 lb FT = 10%
		•	•	

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS.

(size) 5=0-5-8, 3=Mechanical, 4=Mechanical Max Horz 5=52(LC 4) Max Uplift 5=-133(LC 4), 3=-15(LC 8), 4=-5(LC 1)

Max Grav 5=302(LC 1), 3=10(LC 1), 4=27(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-260/137

NOTES-

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5 = 133

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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				7-10-9			1-4-0			
LOADING (psf) SPAC TCLL 25.0 Plate TCDL 10.0 Lumb BCLL 0.0 * Rep S BCDL 10.0 Code	ING- 2-0-0 Grip DOL 1.15 or DOL 1.15 tress Incr YES IRC2018/TPI2014	CSI. TC BC WB Matri	0.16 0.06 0.10 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 46 lb	GRIP 197/144 FT = 10%

LUMBER-	
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TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except*
	5-9: 2x3 SPF No.2
OTHERS	2x4 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9, 6-7. Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 8-9.

REACTIONS. All bearings 9-2-9.

(lb) - Max Horz 1=277(LC 8)

Max Upilt All upilt 100 lb or less at joint(s) 1, 9, 8, 11, 10 except 12=-135(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 9, 8, 11, 10 except 12=277(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-364/211

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) 1, 9, 8, 11, 10 except (jt=lb) 12=135.

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.







LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS 2x4 SPF No.2 TOP 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, Except:

BOT CHORD 6-0-0 oc bracing: 5-6.

REACTIONS. All bearings 6-7-9.

(lb) -Max Horz 1=175(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6 except 7=-121(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8, 6 except 7=271(LC 15)

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

NOTES-

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

2) 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, 5, 8, 6 except (jt=lb) 7=121.

6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 7, 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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LOADING TCLL TCDL BCLL BCDL	G (psf) 25.0 10.0 0.0 * 10.0	SPACING- 2 Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI20	2-0-0 1.15 1.15 YES 014	CSI. TC BC WB Matri	0.29 0.03 0.06 k-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 31 lb	GRIP 197/144 FT = 10%
LUMBER	!-					BRACING-						

BOT CHORD

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

REACTIONS. All bearings 5-3-12.

Max Horz 1=254(LC 5) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-125(LC 6), 5=-115(LC 7), 7=-197(LC 8), 6=-138(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-301/225

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 125 lb uplift at joint 1, 115 lb uplift at joint 5, 197 lb uplift at joint 7 and 138 lb uplift at joint 6.

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



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Structural wood sheathing directly applied or 5-3-12 oc purlins,

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

except end verticals.

March 12.2021







LUMBER-

TOP CHORD2x4 SPF No.2BOT CHORD2x4 SPF No.2OTHERS2x4 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.): 3-6. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-5-13.

(lb) - Max Horz 1=160(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 8, 9, 7 except 10=-159(LC 8) Max Grav All reactions 250 lb or less at joint(s) 1, 6, 8, 10, 9, 7

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

NOTES-

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

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

3) Provide adequate drainage to prevent water ponding.

4) Gable requires continuous bottom chord bearing.

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

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

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 8, 9, 7 except (jt=lb) 10=159.

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

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

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



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REACTIONS. All bearings 11-6-8.

(lb) - Max Horz 13=-592(LC 9)

Max Uplift All uplift 100 b or less at joint(s) 13 except 7=-290(LC 7), 12=-165(LC 9), 11=-180(LC 9), 10=-174(LC 9), 9=-179(LC 9), 8=-158(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 13, 12, 11, 10, 9, 8 except 7=743(LC 9)

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

TOP CHORD 2-3=-252/120, 3-4=-433/193, 4-5=-609/266, 5-6=-791/343, 6-7=-940/404

BOT CHORD 12-13-247/591, 11-12-247/591, 10-11-247/591, 9-10=-247/591, 8-9=-247/591, 7-8=-247/591

NOTES-

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

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

3) Gable requires continuous bottom chord bearing.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 7=290, 12=165, 11=180, 10=174, 9=179, 8=158.

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

						RELE	ASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 102 RR	CONS	TRUCTION
210331	LAY6	GABLE	1	1		AS NOTED C	N PLANS REVIEW
Wheeler Lumber,	Waverly, KS - 66871,			8.430 s Fe	Job Reference (opt b 12 2021 MiTek Ind	ustries, In	MARTO MARSON BI
			ID:Ej7EWovY_94 8-5-15	Pzt7UVy1g	WAz_t70-?qxoVgTh	3ipmOvzNIU7Kjmgqn1N	IHRLWB_4d9Ptzbkq6
			8-5-15			04	/06/2021
		1					Scale = 1:101.8
		4 1 1 2x4 1 1 1 1 1 1 1 1 1 1 1 1 1	$ \begin{array}{c} 2x4 \\ 2 \\ 15.81 12 \\ 2x4 \\ 4 \\ 2x4 \\ 6 \\ 3x6 \\ 5 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 4x5 \\ 6x6 = \end{array} $	4.0.3	2-11-8		
		2-2-2 4-1 2-2-2 2-2	5-1 6-8-0 8-5-15 -15 2-2-15 1-9-15				
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2- Plate Grip DOL 1 Lumber DOL 1	0-0 CSI. .15 TC 0.10 .15 BC 0.11	DEFL. i Vert(LL) n/- Vert(CT) n/-	n (loc) a - a -	l/defl L/d n/a 999 n/a 999	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI20	14 Matrix-P	H012(C1) 0.0	1 8	n/a n/a	Weight: 87 lb	FT = 10%
LUMBER- TOP CHORD 2x4 Sf BOT CHORD 2x4 Sf WEBS 2x4 Sf 5-9: 2x OTHERS 2x4 Sf	PF No.2 PF No.2 PF No.2 *Except* 3 SPF No.2 PF No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structura except e Rigid ce 1 Row a	al wood sheathing o and verticals. iling directly applied t midpt	directly applied or 6-0- d or 6-0-0 oc bracing. 1-14, 2-13	0 oc purlins,
REACTIONS. All b (Ib) - Max H Max L Max C	earings 8-5-15. lorz 14=-387(LC 9) plift All uplift 100 lb or less a 13=-164(LC 9), 11=-169(Grav All reactions 250 lb or le 13=262(LC 16), 9=787(L	t joint(s) 14, 8 except 7=-493(LC 7 LC 9), 9=-1288(LC 9) ss at joint(s) 14, 8, 11 except 7=10 C 7)), 12=-548(LC 9), 10=-77)68(LC 9), 12=373(LC 7)	0(LC 7), , 10=1019((LC 9),	INTE O	F MISSO
FORCES.(lb) - Max.TOP CHORD2-3=BOT CHORD13-1WEBS5-7=	Comp./Max. Ten All forces :261/124, 3-4=-450/202, 4-5=- 4=-293/387, 12-13=-293/387, :843/451, 5-9=-431/753	250 (lb) or less except when show 596/256 11-12=-506/667, 10-11=-501/635,	n. 9-10=-498/643			G X	IUAN ARCIA
NOTES-						- D. NU	JMBER :

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

2) 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) 14, 8 except (jt=lb) 7=493, 12=548, 10=770, 13=164, 11=169, 9=1288.

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

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







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

March 12.2021

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



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

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

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 8=243, 12=227, 11=192, 10=173, 9=152.
- 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.







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

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

NOTES-

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

3) Gable requires continuous bottom chord bearing.

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

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 7=149, 6=148.

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



	7-1-6	1	3-8-3			20)-5-0 8-13	
Plate Offsets (X,Y)	[1:0-2-9,Edge], [2:0-8-4,0-4-4], [4:Edge,	0-2-8], [5:Edge,0-5-8], [7:	0-6-0,0-8-0]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.80 BC 0.92 WB 0.92 Matrix-S	DEFL. i Vert(LL) -0.30 Vert(CT) -0.53 Horz(CT) 0.00 Wind(LL) 0.13	n (loc)) 7-8 3 7-8 5 5 3 7-8	l/defl >795 >450 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18SHS Weight: 280 lb	GRIP 197/144 197/144 FT = 10%
LUMBER- TOP CHORD 2x6 SP BOT CHORD 2x10 S WEBS 2x4 SP 4-5: 2x	F 1650F 1.4E P DSS F No.2 *Except* 6 SPF No.2, 2-7,4-7: 2x4 SPF 2100F 1.	BE	BRACING- TOP CHORD BOT CHORD	Structu except Rigid c	iral wood s end vertic eiling direc	sheathing dir als, and 2-0- ctly applied c	ectly applied or 3-6-12 -0 oc purlins (3-9-1 ma or 10-0-0 oc bracing.	oc purlins, x.): 2-4.
REACTIONS. (size Max H Max U Max G	e) 1=0-8-0, 5=0-8-0 orz 1=83(LC 7) plift 1=-898(LC 4), 5=-97(LC 4) rav 1=8861(LC 1), 5=10216(LC 1)						NU OF	MISSI
FORCES. (lb) - Max. TOP CHORD 1-2=- BOT CHORD 1-8=- WEBS 2-8=-	Comp./Max. Ten All forces 250 (lb) or 19330/1756, 2-3=-17184/1029, 3-4=-17 1637/18122, 7-8=-1681/18506, 5-7=-20 744/6490, 2-7=-1412/765, 3-7=-362/265	less except when shown 184/1029, 4-5=-6569/433 /840 5, 4-7=-1073/17478	8				G JL	
NOTES- 1) 2-ply truss to be con Top chords connected Bottom chords connected as 2) All loads are conside ply connections have 3) Wind: ASCE 7-16; V MWFRS (envelope);	nected together with 10d (0.131"x3") na ed as follows: 2x6 - 2 rows staggered at ected as follows: 2x10 - 2 rows staggere follows: 2x4 - 1 row at 0-9-0 oc. ered equally applied to all plies, except if e been provided to distribute only loads 'ult=115mph (3-second gust) Vasd=91m cantilever left and right exposed ; end v	ils as follows: 0-4-0 oc. ed at 0-5-0 oc. noted as front (F) or bac noted as (F) or (B), unles ph; TCDL=6.0psf; BCDL= rertical left and right expo	k (B) face in the LOAD (s otherwise indicated. =6.0psf; h=25ft; Cat. II; f sed; Lumber DOL=1.60	CASE(S) Exp C; Er plate grip	section. P nclosed; o DOL=1.6	ly to 0	PRO E-2000	ABER 0162101
 4) Provide adequate dr 5) All plates are MT20 6) This truss has been 7) * This truss has beee will fit between the b 8) Provide mechanical 1=898. 9) This truss is designer proposed standard 	ainage to prevent water ponding. plates unless otherwise indicated. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t ottom chord and any other members. connection (by others) of truss to bearin ed in accordance with the 2018 Internation	e load nonconcurrent with he bottom chord in all are g plate capable of withsta onal Residential Code sec	n any other live loads. eas where a rectangle 3 anding 100 lb uplift at joi	6-0 tall b nt(s) 5 ex	y 2-0-0 wid acept (jt=lb	de)	ICO	GARCIA

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

March March

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

Continued on page 2

	RELEASE FOR
Job Truss Truss Type Qty Ply Lot 102 RR	CONSTRUCTION
210331 R1 Half Hip Girder 1 2 Job Reference	AS NOTED ON PLANS REVIEW (optional) DEVELOPMENT SERVICES
Wheeler Lumber, Waverly, KS - 66871, 8.430 s Feb 12 2021 MiTel ID:FIZEWork 0.49771 MutaWaz 120 p.127 10.1272 Mata	KIndustries, InLEFE'MaSL2MMUZ13VL3SO4JB2

NOTES-

04/06/2021 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 754 lb down and 153 lb up at 1-7-12 347 lb down and 24 lb up at 1-7-12, 1123 lb down and 185 lb up at 3-7-12, 754 lb down and 182 lb up at 3-7-12, 967 lb down and 31 lb up at 5-7-12, 754 lb down and 94 lb up at 5-7-12, 967 lb down and 70 lb up at 7-7-12, 754 lb down and 109 lb up at 7-7-12, 1051 lb down and 190 lb up at 9-7-12, 754 lb down and 109 lb up at 9-7-12, 1057 lb down and 163 lb down and 109 lb up at 15-7-12, 1053 lb down at 17-7-12, 754 lb down and 109 lb up at 13-7-12, 754 lb down at 109 lb up at 15-7-12, 1053 lb down at 15-7-12, 754 lb down and 109 lb up at 15-7-12, 1053 lb down at 15-7-12, 754 lb down and 109 lb up at 15-7-12, 1053 lb down at 17-7-12, 754 lb down and 109 lb up at 15-7-12, 1053 lb down at 17-7-12, 754 lb down and 109 lb up at 15-7-12, 1053 lb down at 17-7-12, 754 lb down and 109 lb up at 15-7-12, 1053 lb down at 17-7-12, 754 lb down and 109 lb up at 15-7-12, 1053 lb down at 17-7-12, 1053 lb down at 17-7-12, 1053 lb down at 109 lb up at 15-7-12, 1053 lb down at 17-7-12, 1053 lb down at 109 lb up at 15-7-12, 1053 lb down at 109 lb up at 15-7-12, 1053 lb down at 109 lb up at 15-7-12, 1053 lb down at 109 lb up at 15-7-12, 1053 lb down at 109 lb up at 1100 lb up at 11-7-12, 1053 19-7-12 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, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1812(F=-754, B=-1057) 9=-1101(F=-754, B=-347) 10=-1878(F=-754, B=-1123) 11=-1721(F=-754, B=-967) 12=-1721(F=-754, B=-967) 13=-1805(F=-754, B=-1123) 11=-1721(F=-754, B=-967) 12=-1805(F=-754, B=-967) 12=-1805(F=-75 B=-1051) 14=-1812(F=-754, B=-1057) 15=-1812(F=-754, B=-1057) 16=-1807(F=-754, B=-1053) 17=-1821(F=-759, B=-1062)





LOADING (ps TCLL 25 TCDL 10 BCLL 0 BCDL 10	osf) 5.0 0.0 0.0 * 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matrix	0.29 0.16 0.07 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 26 lb	GRIP 197/144 FT = 10%
I UMBER-	I			1		BRACING						

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=9-5-14, 4=9-5-14, 5=9-5-14 Max Horz 1=159(LC 5)

Max Uplift 4=-23(LC 5), 5=-129(LC 8) Max Grav 1=172(LC 1), 4=122(LC 1), 5=487(LC 1)

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

2-5=-370/182 WEBS

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 129

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



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

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

except end verticals.





LOADING TCLL TCDL BCLL BCDL	i (psf) 25.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES Pl2014	CSI. TC BC WB Matri	0.19 0.10 0.05 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 20 lb	GRIP 197/144 FT = 10%	
I UMBER-	-					BRACING							

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=7-5-14, 4=7-5-14, 5=7-5-14 Max Horz 1=122(LC 5)

Max Uplift 4=-26(LC 8), 5=-102(LC 8)

Max Grav 1=81(LC 16), 4=141(LC 1), 5=384(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-299/153WEBS

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 102

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



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

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

except end verticals.





LOADING (psf)	SPACING- 2-0-0 Plate Grip DOI 1 15	CSI. TC 0.42	DEFL. in (loc) l/defl L/d	PLATES GRIP MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) n/a - n/a 999	WI120 1977144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Holz(CT) -0.00 3 h/a h/a	Weight: 14 lb FT = 10%
LUMBER-			BRACING-	

BOT CHORD

LUMBER-

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

2x3 SPF No.2

REACTIONS. 1=5-5-14, 3=5-5-14 (size) Max Horz 1=86(LC 5) Max Uplift 1=-31(LC 8), 3=-48(LC 8) Max Grav 1=211(LC 1), 3=211(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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



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Structural wood sheathing directly applied or 5-6-8 oc purlins,

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

except end verticals.





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except end verticals.

Structural wood sheathing directly applied or 3-6-8 oc purlins,

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

LOADING) (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	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: 8 lb	FT = 10%
	_					BRACING-						

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=3-5-14, 3=3-5-14 Max Horz 1=49(LC 5)

Max Uplift 1=-18(LC 8), 3=-28(LC 8) Max Grav 1=121(LC 1), 3=121(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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



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except end verticals.

Structural wood sheathing directly applied or 3-8-0 oc purlins,

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

LOADING TCLL TCDL BCLL	G (psf) 25.0 10.0 0.0 *	SPACING- 2-(Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr Y	D-0 CSI 15 TC 15 BC ES WB	0.14 0.07 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 197/144	
BCDL	10.0	Code IRC2018/TPI201	4 Mat	rix-P						Weight: 8 lb	FT = 10%	
					BRACINC							

TOP CHORD

BOT CHORD

UMBER-

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

REACTIONS. 1=3-7-6, 3=3-7-6 (size)

Max Horz 1=52(LC 5) Max Uplift 1=-18(LC 8), 3=-29(LC 8)

Max Grav 1=126(LC 1), 3=126(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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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 14 lb FT = 10%
			PD 4 QINO	

BOT CHORD

LUMBER-

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

2x3 SPF No.2 REACTIONS. 1=5-7-6, 3=5-7-6 (size)

Max Horz 1=88(LC 5) Max Uplift 1=-32(LC 8), 3=-49(LC 8) Max Grav 1=216(LC 1), 3=216(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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



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Structural wood sheathing directly applied or 5-8-0 oc purlins,

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

except end verticals.





LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.20	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/TPI2014	Matrix-P		Weight: 20 lb FT = 10%
LUMBER-		1	BRACING-	

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=7-7-6, 4=7-7-6, 5=7-7-6

Max Horz 1=124(LC 5) Max Uplift 4=-25(LC 8), 5=-103(LC 8)

Max Grav 1=86(LC 16), 4=140(LC 1), 5=389(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-303/155WEBS

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5 = 103

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



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

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

except end verticals.





	LOADING (psf) 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 0.28 BC 0.09 WB 0.03 Matrix-R	DEFL. in Vert(LL) 0.01 Vert(CT) -0.01 Horz(CT) -0.00	(loc) 1 1 5	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 19 lb	GRIP 197/144 FT = 10%
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2x4 SPF No 2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 *Except* WEBS 4-5: 2x3 SPF No.2 OTHERS 2x3 SPF No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=5-8-8, 5=5-8-8, 6=5-8-8 Max Horz 7=124(LC 5) Max Uplift 7=-102(LC 4), 5=-28(LC 4), 6=-76(LC 8) Max Grav 7=248(LC 1), 5=153(LC 1), 6=232(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) 5, 6 except (jt=lb) 7=102

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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MIS

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017



2x4 ⋍

2x4 ||

Structural wood sheathing directly applied or 6-2-8 oc purlins,

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

except end verticals.

LOADING TCLL TCDL BCLL BCDL	(psf) 25.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matri	0.51 0.28 0.00 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 15 lb	GRIP 197/144 FT = 10%
LUMBER-						BRACING					1	

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 1=6-1-12, 3=6-1-12 Max Horz 1=77(LC 5) Max Uplift 1=-38(LC 4), 3=-49(LC 8)

Max Uplift 1=-38(LC 4), 3=-49(LC 8) Max Grav 1=232(LC 1), 3=232(LC 1)

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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



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