

RE: B220060A Lot 148 CB

### Site Information:

Customer: Project Name: B220060A Lot/Block: Address: City:

Subdivision: State:

Model:

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

Design Code: IRC2012/TPI2007 Wind Code: Roof Load: 45.0 psf

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

Seal#

149722373

149722374

This package includes 23 individual, dated Truss Design Drawings and 0 Additional Drawings.

			_	
No.	Seal#	Truss Name	Date	No.
1	149722353	A1	1/17/2022	21
2	149722354	A2	1/17/2022	22
3	149722355	A3	1/17/2022	23
4	149722356	A4	1/17/2022	
5	149722357	B1	1/17/2022	
6	149722358	B2	1/17/2022	
7	149722359	B3	1/17/2022	
8	149722360	B4	1/17/2022	
9	149722361	B5	1/17/2022	
10	149722362	B6	1/17/2022	
11	149722363	B7	1/17/2022	
12	149722364	B8	1/17/2022	
13	149722365	B9	1/17/2022	
14	149722366	B10	1/17/2022	
15	149722367	C1	1/17/2022	
16	149722368	G1	1/17/2022	
17	149722369	J1	1/17/2022	
18	149722370	J2	1/17/2022	
19	149722371	LAY1	1/17/2022	
20	149722372	V1	1/17/2022	

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



V2

V3

Truss Name



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

Date

1/17/2022

1/17/2022

								RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Lot 148 CB		AS NOTED FOR PLAN REVIEW
B220060A	A1	Common Support	ed Gable	1	1	Job Referen	ce (optional)	DEVELOPMENT SERVICES 149722353 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS -	66871,		Run: 8.43 S Oct 11 2			1 2021 MiTek Ind	dustries, Inc. F	
			ID:AVXTMfOv7HTdJ	em99pvFd2	Zzvy1L-RfC?Ps	sB70Hq3NSgPq	nL8w3ulTXbG	
	-0-10-8 0-10-8	16-0-0				32-0		32-10-8
	0-10-8	16-0-0		4x4=		16-0	-0	0-10-8
				4x4= 11				
Scale = 1:70	37 36	8 <sup>12</sup> 3x4 = 8 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		x x x x x x x x x x x x x x x x x x x	12 13 8 8 9 28	3x4 14 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		$ \begin{array}{c} 18 \\ 19 \\ 20 \\ 21 \\ 24 \\ 23 \\ \end{array} $
Plate Offsets (X, Y): [30:0-2	2-8,0-3-0]							
BOT CHORD       6-0-0 oc pur         Rigid ceiling       racing.         WEBS       1 Row at mi         REACTIONS       (lb/size)       22         A       24         A       34         Max Horiz       34         Max Uplift       22         24       24         34       34         35       34         36       34         37       34         38       34         39       34         31       34         32       34         33       34         34       34         35       34         36       34         37       34         38       34         39       34         310       34         32       34         33       34         34       34         35       34         36       34         36       34         37       34         38       34         39       34         34       34	.2 .2 .2 ood sheathing directly applied flins, except end verticals. g directly applied or 10-0-0 oc dpt 11-30, 10-31, 9-32, 12-29, 13-28 2=166/32-0-0, 23=162/32-0-0 6=180/32-0-0, 25=179/32-0-0 6=180/32-0-0, 27=180/32-0-0 0=162/32-0-0, 31=180/32-0-0 0=162/32-0-0, 33=180/32-0-0 6=184/32-0-0, 35=179/32-0-0 6=184/32-0-0, 37=162/32-0-0 8=166/32-0-0	FORCES TOP CHORD BOT CHORD WEBS	BC         C           WB         C           Matrix-R         C           Max Grav         22=208 (LC)           24=184 (LC)         26=186 (LC)           28=187 (LC)         30=311 (LC)           30=311 (LC)         32=185 (LC)           30=311 (LC)         34=186 (LC)           30=311 (LC)         34=186 (LC)           38=25 (LC)         38=25 (LC)           38=25 (LC)         38=25 (LC)           (lb) - Maximum Comp         Tension           2-38=-210/118, 1-2=0         38=25 (LC)           34=180/171, 4-5=-16         6-8=-130/215, 8-9=-11           10-11=-83/320, 11-12         12-13=-49/255, 13-14           10-11=-83/320, 11-12         12-13=-49/255, 13-14           14-16=-74/179, 16-17         17-18=102/104, 18-17           17-18=102/104, 18-11         19-20=-178/164, 32-3           35-36=-135/164, 20-2         37-38=-135/164, 23-2           32-35/164, 21-2         24-25=-135/164, 23-2           22-23=-135/164, 21-2         24-25=-135/164, 23-2           11-30=-287/16, 10-31:         9-32=-145/100, 8-33=           5-35=-148/97, 4-36=-1         12-29=-153/80, 13-28           14-27=-147/93, 16-26         17-25=-148/96, 18-24           19-23=-162/139	10         Ver           0.10         Ver           0.17         Hoi           0.17         Hoi           1.15), 23=         10, 27=           1.16), 27=         10, 27=           1.16), 27=         10, 27=           1.15), 33=         15), 35=           2.15), 35=         11, 37=2           2.16)         ression/M           (40, 2-3=-         88/167, 5-           12/251, 9=         -70/308, 8=           -70/308, =-60/215, -8=         -71/41, 9=           -8=-135/16         3=-135/16           5=-135/16         5=-135/16           6=-135/16         6=-135/16           6=-135/16         6=-135/16           6=-135/16         4=-135/16           6=-135/16         4=-135/16           6=-147/93, 6         144/82, 3=           =-147/94, =         -144/84, 4	t(LL) 1 t(TL) 1 t(TL) 1 iz(TL) 0. 226 (LC 16), 89 (LC 16), 187 (LC 16), 187 (LC 15), 187 (LC 15), 187 (LC 15), 187 (LC 15), 187 (LC 15), 187 (LC 15), 244/223, 6=-148/178, 10=-96/292, 10, 10, 10, 10, 10, 10, 10, 10	n/a - n/a - .01 22 2) Wind (IRC: Cat. 1 zone and r DOL: 3) Trus: only. see S or co 4) All pl 5) Gabl 6) Trus: chorc 7) Gabl 8) This: chorc 9) * Thi: 90 on th 3-06- chord	2012)=91mpł I; Exp C; Enc c cantilever le ight exposed =1.60 5 designed fo For studs ex Standard Indu nsult qualified ates are 2x4 a requires co 5 to be fully si ad against lat a studs space truss has bee d live load non 5 truss has be e bottom cho	PLATES       GRIP         MT20       197/144         Weight: 188 lb       FT = 10%         X Vult=115mph (3-second gust) V         TCDL=6.0psf; BCDL=6.0psf; h=25ft;         closed; MWFRS (envelope) exterior         if and right exposed ; end vertical left;         ; Lumber DOL=1.60 plate grip         r wind loads in the plane of the truss         sposed to wind (normal to the face),         ustry Gable End Details as applicable,         d building designer as per ANSI/TPI 1.         MT20 unless otherwise indicated.         ntinuous bottom chord bearing.         heathed from one face or securely         eral movement (i.e. diagonal web).         ed at 2-00 oc.         en designed for a 10.0 psf bottom         noconcurrent with any other live loads.         seen designed for a live load of 20.0psf         0-00 wide will fit between the bottom         er members.

# MI

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 incorporate this design into the applicability of design parameters and NUSTPH1 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 CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 148 CB	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
B220060A	A1	Common Supported Gable	1	1	Job Reference (optional	DEVELOPMENT SERVICES 149722353 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS -	66871,				1 2021 MiTek Industries, Inc. F sB70Hq3NSgPqnL8w3uITXbG	

10) Provide mechanical connection (by others) of truss to

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 38, 79 lb uplift at joint 22, 58 lb uplift at joint 31, 76 lb uplift at joint 32, 69 lb uplift at joint 33, 69 lb uplift at joint 34, 76 lb uplift at joint 35, 46 lb uplift at joint 36, 173 lb uplift at joint 37, 56 lb uplift at joint 29, 77 lb uplift at joint 28, 69 lb uplift at joint 27, 69 lb uplift at joint 26, 75 lb uplift at joint 25, 50 lb uplift at joint 24 and 156 lb uplift at joint 23

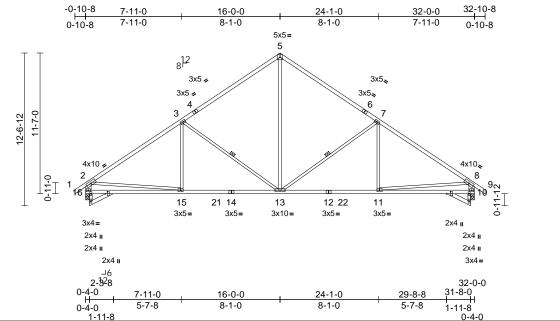
at joint 23.

LOAD CASE(S) Standard



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Plv	Lot 148 CB	AS NOTED FOR PLAN REVIEW
005	11035		Giy	l' ly	LOI 140 CD	DEVELOPMENT SERVICES 149722354
B220060A	A2	Common	6	1	Job Reference (optional	

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Jan 14 458 7/ ID:AVXTMfOv7HTdJem99pvFdZzvy1L-RfC?PsB70Hq3NSgPqnL8w3uITXbC WrCDore44567



#### Plate Offsets (X, Y): [18:0-2-0,0-1-15], [19:0-2-0,0-3-15]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.11	13-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(TL)	-0.28	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horiz(TL)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.05	13-15	>999	240	Weight: 141 lb	FT = 10%

LUMBER

BRACING

TOP CHORD

BOT CHORD

WEBS

FORCES

TOP CHORD

BOT CHORD

this design.

DOL=1.60

WEBS

NOTES 1) Unb

2)

3) 4)

Scale = 1:94.8

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

REACTIONS (lb/size)

WEBS 2x3 SPF No.2 \*Except\* 13-5:2x4 SPF No.2, 16-2,10-8:2x6 SPF No.2

except end verticals.

Max Horiz 16=-322 (LC 6)

1 Row at midpt

bracing.

Tension

8-11=0/1070

Structural wood sheathing directly applied,

Rigid ceiling directly applied or 10-0-0 oc

Max Uplift 10=-186 (LC 9), 16=-186 (LC 8)

1-2=0/43, 2-3=-1925/229, 3-5=-1394/279, 5-7=-1394/279, 7-8=-1925/229, 8-9=0/43, 2-16=-1423/228, 8-10=-1423/227

5-13=-110/857, 7-13=-682/283, 7-11=0/260, 3-13=-682/284, 3-15=0/260, 2-15=0/1058,

15-16=-341/694, 13-15=-229/1630, 11-13=-56/1482, 10-11=-176/477

Unbalanced roof live loads have been considered for

Wind: ASCE 7-10; Vult=115mph (3-second gust) V

All plates are 3x5 MT20 unless otherwise indicated.

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

(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip

(Ib) - Maximum Compression/Maximum

7-13, 3-13

10=1497/0-3-8, 16=1497/0-3-8

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
  - chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 186 lb uplift at joint 16 and 186 lb uplift at joint 10.

LOAD CASE(S) Standard

### JUAN GROA NUMBER E-2000162101 January 17,2022

2/2024

16023 Swingley Ridge Rd Chesterfield, MO 63017

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

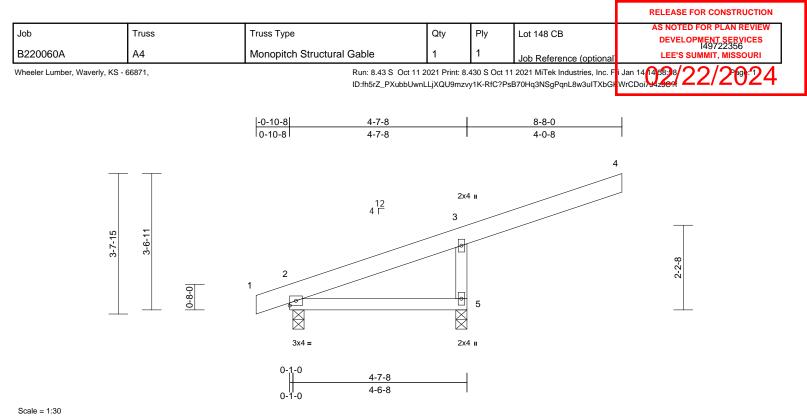
									RELEASE	FOR CONSTRUCTION	
Job	Truss		Truss Type		Qty	Ply	Lot 148 CB			ED FOR PLAN REVIEW	٦
B220060A	A3		Roof Special		3	1	Job Reference	e (optional		OPMENT SERVICES 149722355 SUMMIT, MISSOURI	
Wheeler Lumber	, Waverly, KS - 66871,						1 2021 MiTek Indu	stries, Inc. F		22/2024	Ē
				ID:AVXTMfOv7F	1TdJem99pvFdZ	zvy1L-RfC?P	sB70Hq3NSgPqnL		KWrCDol73423C?f		
		-0-10-8 7-11-( 0-10-8 7-11-(			24-1-0 8-1-0	28	<u>3-5-0 31-10-</u> -4-0 3-5-4	4 36-	4-0 37-2-8 -12 0-10-8		
		0 10 0		5x5=							
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4x10 + 2 1 + 8 3x5    2x4    2x4    2x4    2x4    2-3-8	8 <sup>12</sup> 3x5 = 3x5 = 4 3 17 3x5 = 3x 17 3x5 = 3x	5 5 6 15 6 3x10=	24 1 3	3x5\$ 6 4 13 x6= 3x4=	5x5= 7 2x4 6L 13	12 2x4 II 8 4-1 12 12 2x4 II 2x4 II 3x5= 1-10-4	-0 10 0 24- 0 80 1 3x5 ⊪ 5	4 - ] -	
		0-4-0 7-	11-0 16-0		24-1-0		<u>29-8-8</u> 31-8	<sup>3-0</sup> , 36-3	<u>3-0</u> 36-4-0		
Scale = 1:90.9		1-11-8	7-8 8-1	-0	8-1-0		5-7-8 1-1	-8 <sup>4-4-</sup> 0-2-4	-12 <sub>0-1-0</sub>		
Plate Offsets (	X, Y): [20:0-2-0,0-1-1	5], [21:0-2-0,0-3-15]		· · · · ·		-		-			_
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB		(LL) -0 (TL) -0 z(TL) 0	.11 13-15 >9 .28 13-15 >9 .07 12	defl L/d 999 360 999 240 n/a n/a	PLATES MT20	<b>GRIP</b> 197/144	
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		( )	.06 13-15 >9	999 240	Weight: 152 lb	FT = 10%	—
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SPF No.2	ept* 15-5,11-9:2x4 SP No.2	(IRC2012)=5 Cat. II; Exp ( F zone; cantile and right exp DOL=1.60	7-10; Vult=115mp 91mph; TCDL=6.0 C; Enclosed; MWF ever left and right e posed; Lumber DC	psf; BCDL=6.0 RS (envelope exposed ; end DL=1.60 plate g	psf; h=25ft ) exterior vertical left grip	;				
TOP CHORD	except end verticals		chord live loa	as been designed t ad nonconcurrent has been designed	with any other	live loads.					
BOT CHORD	Rigid ceiling directly bracing.		on the bottor	m chord in all area by 2-00-00 wide w	is where a rect	angle					
	(Ib/size) 11=113/0 18=1480/ Max Horiz 18=-330 ( Max Uplift 11=-127 ( 18=-187 (	(LC 6) (LC 5), 12=-196 (LC 9 (LC 8)	chord and an 5) Provide mec bearing plate joint 18, 196 ), 11. LOAD CASE(S)	ny other members, chanical connection e capable of withst b uplift at joint 12	, with BCDL = n (by others) o tanding 187 lb	10.0psf. f truss to uplift at					
	Max Grav 11=145 (I 18=1480	(LC 1)	1),								
FORCES	(lb) - Maximum Corr Tension	pression/Maximum									
TOP CHORD	5-6=-1363/278, 6-7=	3/230, 3-5=-1366/280, 1705/243, 7-8=0/318 23, 2-18=-1406/229, -17=-235/1612.							NE OF	MISS	

- 13-15=-59/1403, 12-13=-111/1226, 11-12=-246/27

   WEBS
   3-17=0/262, 3-15=-683/283, 5-15=-109/819, 6-15=-576/277, 6-13=0/203, 8-12=-370/158, 2-17=0/1028, 7-13=0/274, 7-12=-1919/171
- NOTES
- 1) Unbalanced roof live loads have been considered for this design.

JUAN JUAN AROM E-2000162101 January 17,2022





Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.02	2-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	-0.05	2-5	>984	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-P							Weight: 25 lb	FT = 10%

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

WEBS	2x4 SPF No.2

BKA	CII	٩G
	~ .	

TOP CHORD	Structural wood sheathing directly applied or
	4-7-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.

REACTIONS	(lb/size)	2=133/0-3-8, 5=621/0-3-8
	Max Horiz	2=137 (LC 5)
	Max Uplift	2=-4 (LC 4), 5=-239 (LC 5)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/1, 2-3=-139/108, 3-4=-93/0, 3-5=-578/265

BOT CHORD 2-5=-25/19

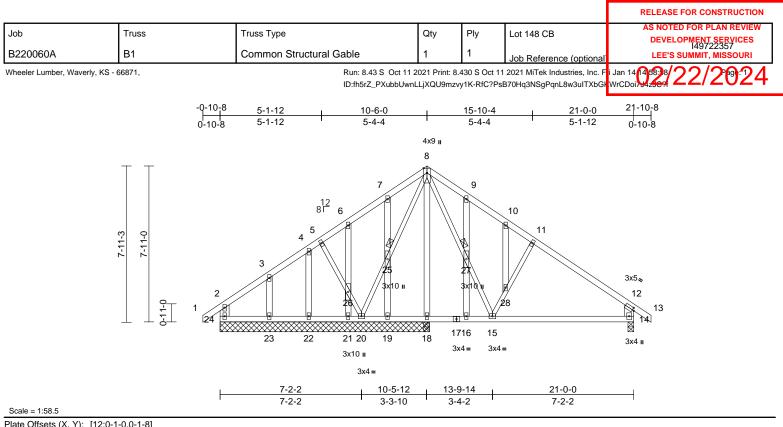
NOTES

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 239 lb uplift at joint 5 and 4 lb uplift at joint 2.

LOAD CASE(S) Standard







Loading		(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		25.0	Plate Grip DOL	1.15		тс	0.31	Vert(LL)		14-15	>999	360	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.31	Vert(TL)	-0.14	14-15	>869	240		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.43	Horiz(TL)	0.00	14	n/a	n/a		
BCDL		10.0	Code	IRC20	12/TPI2007	Matrix-S		Wind(LL)	0.01	16	>999	240	Weight: 115 lb	FT = 10%
L <b>UMBER</b> TOP CHORD	2x4 SPF I	No 2		I	BOT CHORD	23-24=-155/149, 2 21-22=-155/149, 2								others) of truss to
BOT CHORD						19-20=-103/114, 1	8-19=-1	03/114,		join	t 14, 39	lb uplif	t at joint 20, 35 lb	o uplift at joint 24, 5
VEBS	2x3 SPF N	No.2 *Exce	pt* 24-2,14-12:2x6 \$	SPF		16-18=-109/113, 1	5-16=-1	09/113,						nt 21, 13 lb uplift at
	No.2					14-15=-31/254							o uplift at joint 23.	
THERS	2x4 SPF N	No.2		1	NEBS	8-27=-147/486, 15		,		LOAD	CASE(S	) Star	ndard	
RACING						20-25=-136/56, 8-2 15-28=-284/195, 1		,						
OP CHORD			athing directly applie	d or		5-26=-119/83, 20-2		,	1/0					
			cept end verticals.			7-25=-159/94, 19-2		,	,					
BOT CHORD	Rigid ceili bracing,		applied or 6-0-0 oc			21-26=-113/56, 4-2								
		bracing: 1	4-15			9-27=-135/62, 16-2	27=-169	/67, 10-28=-4	5/30					
OINTS		t Jt(s): 25,	+ i0.		NOTES									
	27	. 51(5). 20,				d roof live loads hav	e been	considered fo	or					
EACTIONS		14=498/0-	3-8, 18=609/10-7-8,		this design.									
	(10/0120)		0-7-8, 20=210/10-7-8			E 7-10; Vult=115mp								
		21=117/10	0-7-8, 22=87/10-7-8,			91mph; TCDL=6.0								
			0-7-8, 24=135/10-7-8	3		C; Enclosed; MWF ever left and right e								
	Max Horiz	(	,			posed; Lumber DO			leit					
	Max Uplift		LC 9), 19=-55 (LC 8)		DOL=1.60		L=1.00	plate grip						
		· ·	C 9), 21=-36 (LC 8),			ned for wind loads	in the pl	ane of the tru	SS					
		22=-13 (L) 24=-35 (L)	C 4), 23=-122 (LC 8)	),		tuds exposed to wir								
	Max Grav		.C 20), 18=609 (LC <sup>-</sup>	n)	see Standa	rd Industry Gable E	nd Deta	ils as applica	ble,					1117
			.C 19), 20=210 (LC			ualified building de			PI 1.				Nº OF	MISSI
			.C 19), 22=127 (LC	19), '		e 2x4 MT20 unless							144	
		23=264 (L	.C 15), 24=170 (LC	19) (		fully sheathed from						~	18	
FORCES	(lb) - Max	imum Com	pression/Maximum			inst lateral moveme		liagonal web)	-			20	JUA	AN :2-
	Tension					s spaced at 2-0-0 of as been designed f		and hottom				2.	GAR	
OP CHORD			31, 3-4=-36/101,			ad nonconcurrent			ehi			- *	: 7	Ma . :*:
			7/155, 6-7=-20/184,	. 8		has been designed								
			/249, 9-10=-230/202 12=-409/151,	<u>,</u>		om chord in all area						= 7	NUMI	BER 🥂
			50/46, 12-14=-434/1	70		by 2-00-00 wide wi			om				E-20001	162101 :4:5
	12-13=0/4	10, 2-24=-1	JU/+0, 12-14=-434/	10	chord and a	any other members.						-	A	
												1	100	G
													ONI	ALENI
													1111	iiiii
														17 2022

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



								RELEASE FOR CONSTRUCTION
Job	Truss		Truss Type		Qty	Ply	Lot 148 CB	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 149722358
B220060A	B2		Common		6	1	Job Reference (optional	
Wheeler Lumber, Waverly	, KS - 66871,						l 2021 MiTek Industries, Inc. F B70Hq3NSgPqnL8w3uITXbGł	
		-0-10-8 0-10-8	5-1-12 5-1-12	<u> </u>		<u>15-10-4</u> 5-4-4	<u>21-0-</u> 5-1-1	
					4x5 <b>u</b>			
	7-11-3			8 <sup>12</sup> 2x4 3	4		2x4 # 5	

				8	1 <u>2</u>		$\swarrow$	< compared with the second sec			
					2x4 <b>\</b>			2x	<b>&lt;</b> 4 <i>µ</i>		
- <u>1</u> -3	-0			3					5		
7-11-3	7-11-0		F		<u></u>	20-1-0					
			I			//				1	
		o	2				,	$\mathbb{N}$		6	
		0-11-0	1 12				4			87	
		-			11	13	10	9			
			6x10	) II	3x4 =		3x4=	3x4 =		6x10 и	
				7-2-2		13-9-14		1	21-0-0		
			I	7-2-2	I	6-7-12		I	7-2-2	I	
		- 01									

### Plate Offsets (X, Y): [8:Edge,0-5-8]

Scale = 1:54.1

	x, i): [0:Edg0,0 0 0]	-										
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.85	Vert(LL)	-0.20	9-11	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(TL)	-0.37	9-11	>669	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.08	9-11	>999	240	Weight: 78 lb	FT = 10%
UMBER			5) Provide	mechanical connecti	ion (hv oth	ers) of truss t	'n					
OP CHORD	2x4 SPF No.2			plate capable of with								
OT CHORD	2x4 SPF No.2			and 129 lb uplift at jo		·						
/EBS	2x3 SPF No.2 *Exce	ept* 12-2,8-6:2x6 SF	F LOAD CASE	(S) Standard								
	No.2			. ,								
RACING												
OP CHORD	Structural wood she		ed or									
	2-2-1 oc purlins, ex											
SOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	С									
REACTIONS	0	-3-8, 12=1002/0-3-8										
	(ID/SIZE) 8=1002/0 Max Horiz 12=-227 (	,	)									
	Max Uplift 8=-129 (L		3)									
ORCES	(lb) - Maximum Com		,									
ONOLO	Tension											
OP CHORD	1-2=0/43, 2-3=-1173	3/157, 3-4=-1006/21	6,									
	4-5=-1006/216, 5-6=	-1173/158, 6-7=0/4	3,									
	2-12=-908/167, 6-8=											
BOT CHORD	11-12=-149/955, 9-1	,										
VEBS	4-9=-121/416, 5-9=-	245/221, 4-11=-121	/418,									
	3-11=-245/221											
	d roof live loode hove	been considered fo										n
this design	ed roof live loads have	been considered to	1								IN OF	Mich
	CE 7-10; Vult=115mph	(3-second gust) V									NEOF	NISS !!
	=91mph; TCDL=6.0ps		25ft;								A	
	p C; Enclosed; MWFR									20	<u>.</u>	·
	ilever left and right exp		left							2		
and right a	wheel I umber DOL	1 CO plata aria								1000	• (AR	

- and right exposed; Lumber DOL=1.60 plate grip DOL=1.603) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Lot 148 CB	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 149722359
B220060A	B3	Common		4	1	Job Reference (optional	
Wheeler Lumber, Waverly, KS -	66871,					1 2021 MiTek Industries, Inc. F sB70Hq3NSgPqnL8w3uITXbGI	
		10-8 <u>5-1-12</u> 10-8 <u>5-1-12</u>	10-6-0		<u>15-1</u> 5-4		-0-0  -12
				4x5 i 4	I		
7-11-3		2	8 <sup>12</sup> 2x4	19-11-4	(*)	2x4 # 5	5x6 x 6 7
		6x10 <b>I</b>	3x4=		9 3x5=	8 3x4=	4x5=

7-2-2 13-9-14 21-0-0 7-2-2 6-7-12 7-2-2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.23	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(TL)	-0.44	8-10	>562	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.10	8-10	>999	240	Weight: 77 lb	FT = 10%
LUMBER			LOAD CASE(S)	Standard					_		_	

TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Except* 11-2:2x6 SPF No.2,
	7-6:2x8 SP DSS
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(lb/size) 7=919/0-3-8, 11=1000/0-3-8
	Max Horiz 11=221 (LC 7)
	Max Uplift 7=-103 (LC 9), 11=-129 (LC 8)
FORCES	(Ib) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/43, 2-3=-1173/157, 3-4=-1006/216,
	4-5=-994/214, 5-6=-1157/155,
	2-11=-908/167, 6-7=-807/137
BOT CHORD	10-11=-162/945, 8-10=-10/661, 7-8=-68/853
WEBS	4-8=-118/400, 5-8=-257/222, 4-10=-122/427,

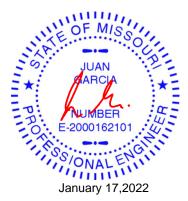
NOTES

Scale = 1:54.1

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

3-10=-244/221

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 11 and 103 lb uplift at joint 7.





									RELE	ASE FOR CONSTRUCT	ON
Job	Truss		Truss Type		Qty	Ply	Lot 148	СВ		DTED FOR PLAN REVIE /ELOPMENT SERVICES 149722360	
B220060A	B4		Common		3	1	Job Ref	erence (optional		149722360 E'S SUMMIT, MISSOURI	
Wheeler Lumber, Waverly,	, KS - 66871,			Run: 8.43 S Oct 11 ID:b4Dc_gRoQCrCA							4
		-0-10-8 0-10-8	5-1-12 5-1-12	10-6-0 5-4-4		15-9-5 5-3-5		<u>20-10-</u> 5-1-3	3		
					4x5 u						
					4						
				81 <sup>2</sup>							

19-9-12

T o

9

8

2x4 🏿

5

5x6、 6

> Z 7

4x5=

1-0-0

	3x4 = 3	x5= 3x4=
7-2-2	13-9-14	20-10-8
7-2-2	6-7-12	7-0-10

12

10

2x4 🔥 3

00010 - 1.04.1												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.24	8-1Ó	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(TL)	-0.46	8-10	>529	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-S		Wind(LL)	0.11	8-10	>999	240	Weight: 77 lb	FT = 10%
L <b>UMBER</b> TOP CHORD	2x4 SPF No.2			echanical connect ate capable of with					·			
BOT CHORD				d 101 lb uplift at jo								
WEBS	2x3 SPF No.2 *Exce 7-6:2x8 SP DSS	ept* 11-2:2x6 SPF N	lo.2, LOAD CASE(	S) Standard								
BRACING												
TOP CHORD	2-4-4 oc purlins, ex	cept end verticals.										
BOT CHORD	<ul> <li>Rigid ceiling directly bracing.</li> </ul>	applied or 10-0-0 o	0C									
REACTIONS	Max Horiz 11=222 (I	,										
	Max Uplift 7=-101 (L	<i>,,</i>	,									
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD		,	5,									
	2-11=-903/166, 6-7=	,										
BOT CHORD WEBS	10-11=-162/939, 8-1 4-8=-118/379, 5-8=-	,										
WEB0	3-10=-244/221	210,110 122	. 100,									
NOTES												
<ol> <li>Unbalance this design</li> </ol>	ed roof live loads have	been considered for	or									
	CE 7-10; Vult=115mph	(3-second gust) V									내밑	MICH
	2)=91mph; TCDL=6.0ps										NEOF	NISS.
	xp C; Enclosed; MWFR									- 5	· P · · · -	
	ntilever left and right ex exposed; Lumber DOL		left							-		ANI P
DOL=1.60		= 1.60 plate grip								2		AIN
	s has been designed fo	r a 10.0 psf bottom								=*	GA	10A :*=
	e load nonconcurrent w		ads.							2	: k.	h : :
	ss has been designed f		0psf							- 7		IBER :
	ttom chord in all areas									-1	E-2000	• 41-
	all by 2-00-00 wide will									-	A	. 2.
	d any other members, v girder(s) for truss to trus		I.								100	G.
o, ivelet to g											INON	ALEN
											- 111	mm
												v 17 2022

7-11-3 7-11-0

Scale = 1:54.1

2

8

6x10 II

ίπ

0-11-0



January 17,2022

										R	ELEASE FOR CONSTRUCTIO	N
Job	Truss		Truss Typ	be		Qty	Ply	Lot 148 C	зв		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 149722361	
B220060A	B5		Roof Special         1         1         Job Reference (option						rence (optional		LEE'S SUMMIT, MISSOURI	
Wheeler Lumber, Wave	rly, KS - 66871,				Run: 8.43 S Oct 11 : ID:b4Dc_gRoQCrCA	2021 Print: 8 5UkqxTyFB2	.430 S Oct 11 zvy1I-RfC?Ps	l 2021 MiTek B70Hq3NSgl	t Industries, Inc. F PqnL8w3uITXbGł	i Jan 1414 WrCDoi7 <del>J</del>	\$\$°/22/2024	4
			-0 <mark>-10-8 2-1-12 6-1-2 10-6-0 16-1-0 20-10-8 0 0-10-8 2-1-12 3-11-6 4-4-14 5-7-0 4-9-8 0-10-8 </mark>									
	4x4=											
	ΤŢ			12 81		5						

4

3x4 I

2x4 ı

ċ

5x12=

3x6

2x4 u

2-3-8

2-3-8

2-0-0

1.15

1.15

YES

IRC2012/TPI2007

2

3x5、

9

4x8 =

2x4 u

0-1-4

13-14

13-14

13-14

8

20-10-8

4-9-8

L/d

360

240

240

l/defl

>999

>605

>999

n/a n/a

<u>15-11</u>-12 16-1-0

3-7-4

in (loc)

-0.15

-0.41

0.11

0.06

12

þ

2x4 II

10

3x4 II

12-4-8

1-10-8

DEFL

Vert(LL)

Vert(TL)

Horiz(TL)

Wind(LL)

0.36

0.57

0.48

13

3x10 =

6

3x6、

7

3x4 II

PLATES

Weight: 89 lb

MT20

8

04-0 1-0-0

GRIP

197/144

FT = 10%

3-14=-243/140, 13-14=-178/1100, 12-13=-83/1175, 11-12=-67/1058, 10-12=0/74, 9-10=-16/117, 8-9=-16/137 4-14=-187/819, 4-13=-462/229, 5-13=-79/675, 6-13=-498/215, 9-11=0/160, 6-11=0/181, 2-14=-218/1360, 7-11=-67/1031

### NOTES

WEBS

Scale = 1:58.2

Loading

TCDL

BCLL

BCDL

WEBS

BRACING

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

**REACTIONS** (lb/size)

LUMBER

TOP CHORD

BOT CHORD

TCLL (roof)

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

7-11-0 6-11-0

-11-0

7-11-3

Plate Offsets (X, Y): [11:0-3-8,0-2-0], [12:0-2-0,Edge]

2x4 SPF No.2

No 2

bracing.

Tension

Max Horiz 16=220 (LC 5)

15-16=-95/165, 14-15=-21/52,

(psf)

25.0

10.0

10.0

0.0\*

Spacing

Code

2x4 SPF No.2 \*Except\* 12-10:2x3 SPF No.2

Structural wood sheathing directly applied or

8=924/ Mechanical, 16=999/0-3-8

3-11-14 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

Max Uplift 8=-103 (LC 9), 16=-128 (LC 8)

(lb) - Maximum Compression/Maximum

1-2=0/40, 2-3=-1811/259, 3-4=-1963/380, 4-5=-997/163, 5-6=-1021/176,

6-7=-1478/164, 2-16=-970/155, 7-8=-867/129

2x3 SPF No.2 \*Except\* 16-2,8-7:2x4 SPF

Plate Grip DOL

Rep Stress Incr

Lumber DOL

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; 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.

4) \* This truss has been designed for a live load of 20.0psf

on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom

chord and any other members.

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

10-6-0

8-2-8

CSI

тс

BC

WB

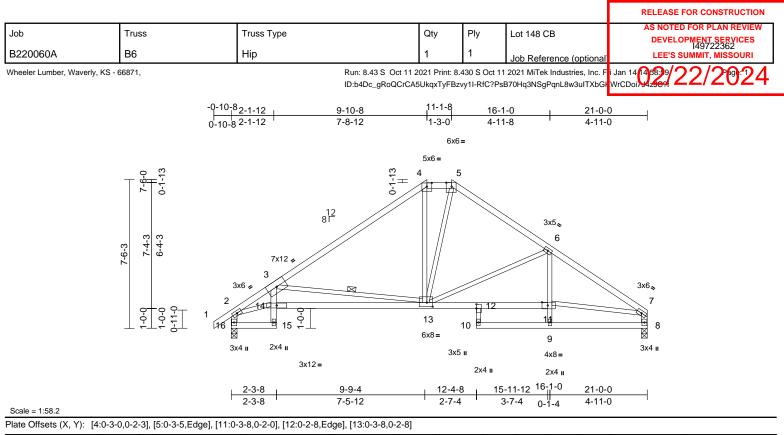
Matrix-S

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at
- joint 16 and 103 lb uplift at joint 8.

LOAD CASE(S) Standard



Mitek\* 16023 Swingley Ridge Rd Chesterfield, MO 63017



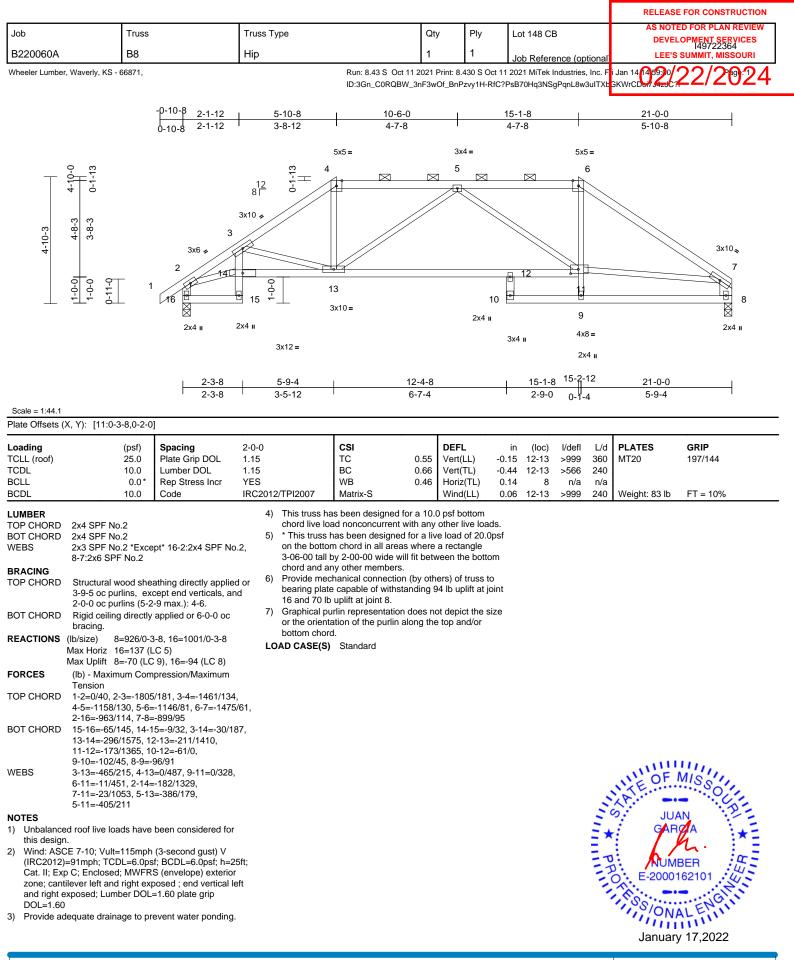
		1			-								
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		тс	0.75	Vert(LL)	-0.12	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.68	Vert(TL)	-0.33	13-14	>748	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.67	Horiz(TL)	0.14	8	n/a	n/a		
BCDL	10.0	Code	IRC2012/TF	PI2007	Matrix-S		Wind(LL)	0.07	13-14	>999	240	Weight: 91 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce No.2 Structural wood she 2-2-0 oc purlins, ex 2-0-0 oc purlins (5-1) Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 14 8-1-12 oc bracing: 1	ept* 12-10:2x3 SPF N pt* 16-2,8-7:2x4 SPF athing directly applie cept end verticals, ar 0-11 max.): 4-5. applied or 10-0-0 oc -15 3-14.	3) Pi 4) Ti 10.2 ct 5) * or 3- dor ct ba ba jo 7) G 7) G or ba	rovide adeq his truss ha hord live loa This truss h n the botton -06-00 tall b hord and an rovide mect earing plate earing plate int 16 and 1 iraphical pu	uate drainage to p s been designed fo d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide wil y other members. nanical connection capable of withsta 02 lb uplift at joint flin representation tion of the purlin a	or a 10.0 vith any for a liv where I fit betv (by oth anding 1 8. does no	water ponding opsf bottom other live load e load of 20.0 a rectangle veen the botto ers) of truss to 25 lb uplift at ot depict the s	g. ds. Dpsf om o	13-14	>999	240	weight: 91 ib	FT = 10%
		3-13	LOAL	J CASE(S)	Standard								
REACTIONS	(lb/size)         8=930/0-3           Max Horiz         16=206 (L           Max Uplift         8=-102 (L												
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension												
TOP CHORD	1-2=0/40, 2-3=-1919 4-5=-831/179, 5-6=- 6-7=-1508/153, 2-16	1009/161,											
BOT CHORD	15-16=-93/174, 14-1 13-14=-513/2009, 12 11-12=-49/1066, 10- 8-9=-20/156	,	,									INTE OF	MISSO
WEBS	3-13=-1228/499, 4-1 5-13=-129/428, 6-13 6-11=0/217, 2-14=-2	8=-504/195, 9-11=0/1	,								in .		N. P.
NOTES	,	-,, -									= *	: 7	<u>^ :★</u> =
<ol> <li>Unbalance this design</li> <li>Wind: ASC (IRC2012) Cat. II; Exp zone; cant</li> </ol>	CE 7-10; Vult=115mph )=91mph; TCDL=6.0ps p C; Enclosed; MWFR tilever left and right exp exposed; Lumber DOL	(3-second gust) V ff; BCDL=6.0psf; h=2 S (envelope) exterior posed ; end vertical lo	5ft;								Philip	E-20001	LENGINI

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

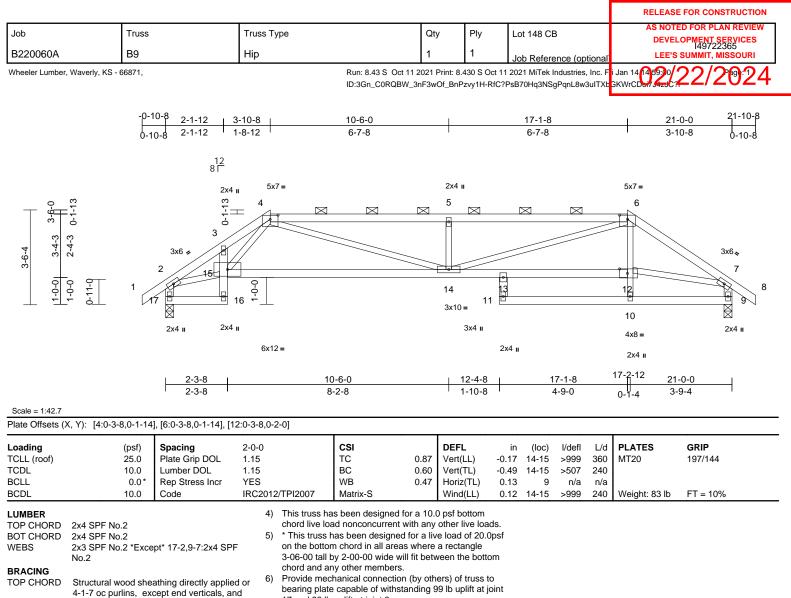


								RELEASE	FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Lot 148 CE	3		D FOR PLAN REVIEW
B220060A	B7	Hip		1	1	Job Refere	nce (optional)		OPMENT SERVICES 149722363 SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS -	66871,	•	Run: 8.43 S Oct 11 2			2021 MiTek lı	ndustries, Inc. F	i Jan 14 14 59:00	22/2024
			ID:3Gn_C0RQBW_3	nF3wOf_BnP	zvy1H-RfC?	PsB10Hq3NSg	JPqnL8w3uI I Xb	GKWrCD6// J=zJC?	
	-0-10-8 2-1- 0-10-8 2-1-	2 7-10-8 2 5-8-12		<u>13-1-8</u> 5-3-0		16-1-		<u>21-0-0</u> 4-11-0	
	0-10-8 2 1	0012	5x5 =	000		5x7=	0	1110	
6-2-3 6-2-0		8F 6x10 + 3	4			5	2x4 II 6		
	3x6 ≠ 2								3x6 <b>∝</b> ∕ 7
	- /./~		13			12			
	- 5-1 (16 <del>  </del>	15 ←	3x10 =		10 💾		<u>1</u> 9		8
	2x4 u	2x4 II		:	3x4 <b>II</b> 2x4		9 4x8 =		2x4 II
		3x12 =			274	п	2x4 u		
	2-3	8 7-9-4 8 5-5-12		12-4-8		15-11-12	16-1-0	21-0-0	
Scale = 1:48.9	2-3	.8 5-5-12	I	4-7-4	I	3-7-4	0-1-4	4-11-0	I
Plate Offsets (X, Y): [5:0-3-	-8,0-1-14], [11:0-3-8,0-2-0], [1	2:0-2-0,Edge]						I	
Loading TCLL (roof) TCDL BCLL BCDL	(psf)         Spacing           25.0         Plate Grip DOL           10.0         Lumber DOL           0.0*         Rep Stress Incr           10.0         Code	1.15 1.15 YES	BC C	0.46 <b>DEFI</b> 0.62 Vert( 0.66 Horiz Wind	LL) -0 TL) -0 :(TL) 0	in (loc) 12 12-13 33 12-13 13 8 .05 13-14	l/defl L/d >999 360 >750 240 n/a n/a >999 240	PLATES MT20 Weight: 87 lb	<b>GRIP</b> 197/144 FT = 10%
WEBS         2x3 SPF No. No.2           BRACING         Structural weak of the second sec	2.2 *Except* 12-10:2x3 SPF I 5.2 *Except* 16-2,8-7:2x4 SP wood sheathing directly applied rlins, except end verticals, a rlins (5-2-5 max.): 4-5. g directly applied or 10-0-0 or xcept: acing: 14-15 acing: 13-14. 3=930/0-3-8, 16=1005/0-3-8 6=171 (LC 5) i=-89 (LC 9), 16=-112 (LC 8) num Compression/Maximum -3=-1856/243, 3-4=-1303/11. 50, 5-6=-1506/232, 6-7=-153 130, 7-8=-894/109 161, 14-15=-17/34, 3-14=-5/2 v/1725, 12-13=-32/930, 352, 10-12=0/23, 9-10=-44/76 348, 4-13=0/335, 5-13=-67/1 1389, 7-11=0/1097, 9-11=0/2 211, 5-11=-138/573 ads have been considered fo	chord live load Io.2 5) * This truss ha on the bottom 3-06-00 tall by chord and any 6) Provide mecha bearing plate of 16 and 89 bu 7) Graphical purli- or the orientati bottom chord. LOAD CASE(S) 42, 3, 79, 50, 25ft; r	in representation do on of the purlin alon	any other I a live load here a recta between th y others) of ling 112 lb u es not depic	ive loads. of 20.0psf angle he bottom truss to uplift at join ct the size	t		JUA GIRU O. E-20001	MISSOUR BER 62101
DOL=1.60	ber DOL=1.60 plate grip age to prevent water ponding							January	17,2022





16023 Swingley Ridge Rd Chesterfield, MO 63017



 17 and 99 lb uplift at joint 9.
 Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

#### NOTES

WEBS

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

REACTIONS (lb/size)

bracing.

Tension

7-9=-959/116

9-10=-4/152

7-12=-183/1161

 Unbalanced roof live loads have been considered for this design.

4-15=-9/441, 4-14=-235/1247,

5-14=-565/228, 6-14=-259/1283, 10-12=0/173, 6-12=0/233, 2-15=-192/1354,

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

Max Horiz 17=108 (LC 7)

Rigid ceiling directly applied or 10-0-0 oc

Max Uplift 9=-99 (LC 4), 17=-99 (LC 5)

(lb) - Maximum Compression/Maximum

1-2=0/40, 2-3=-1809/244, 3-4=-1842/259, 4-5=-2503/391, 5-6=-2503/391, 6-7=-1634/203, 7-8=0/40, 2-17=-979/122,

16-17=-60/98, 15-16=0/43, 3-15=-112/108, 14-15=-267/1360, 13-14=-157/1316, 12-13=-176/1186, 11-13=0/92, 10-11=-2/130,

9=1003/0-3-8, 17=1003/0-3-8

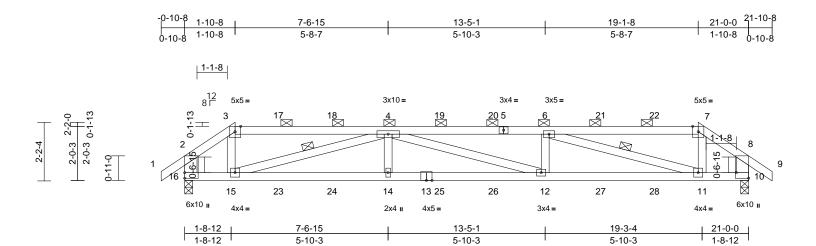
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qtv	Plv	Lot 148 CB	AS NOTED FOR PLAN REVIEW
300	Tuss	Truss Type		FIY	LUI 140 CB	DEVELOPMENT SERVICES 149722366
B220060A	B10	Hip Girder	1	1	Job Reference (optional	
Wheeler Lumber, Waverly, KS	i Jan 14145901/ <b>フク/ア</b> 留: フ <u>人</u>					

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Jan 14 [459]1/22/26 24 ID:b4Dc\_gRoQCrCA5UkqxTyFBzvy1I-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi WrCDoi 34.2004



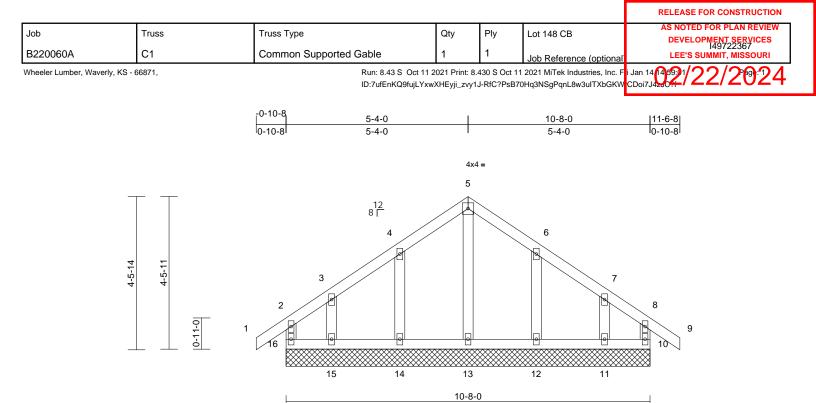
Scale = 1:42.9

Plate Offsets (X, Y): [10:Edge,0-5-8]

	X, 1). [10.Euge,0-5-6	1												
Loading TCLL (roof) TCDL BCLL	(psf) 25.0 10.0 0.0*	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO		CSI TC BC WB	0.72 0.83 0.40	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in -0.20 -0.46 0.10	(loc) 12-14 12-14 10	l/defl >999 >540 n/a	L/d 360 240 n/a	<b>PLATES</b> MT20	<b>GRIP</b> 197/144	
BCDL	10.0	Code	IRC201	2/TPI2007	Matrix-S		Wind(LL)	0.21	12-14	>999	240	Weight: 80 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	No.2 Structural wood she	pt* 16-2,10-8:2x6 SF athing directly applie cept end verticals, ar -8 max.): 3-7.	5) PF d or 6)	<ul> <li>4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.</li> <li>6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 10.</li> <li>Yet: 15=3 (B), 14=1 (B), 12=1 (B), 11=3 (B), 23=1 (B), 26=1 (B), 27=1 (B), 28=1 (B)</li> </ul>										
BOT CHORD	7) Crophical purlin representation does not denict the size													
WEBS	0	4-15, 6-11		bottom chord		-								
REACTIONS       (lb/size)       10=994/0-3-8, 16=994/0-3-8         Max Horiz       16=75 (LC 7)         Max Uplift       10=-261 (LC 4), 16=-264 (LC 5)    8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 52 lb up at 1-10-8, 65 lb down and 26 lb up at 3-6-0, 65 lb down and 26 lb up at 3-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 26 lb up at 5-6-0, 65 lb down and 50 lb up at 5-6-0,														
FORCES	(lb) - Maximum Com	pression/Maximum												
TOP CHORD	(lb) - Maximum Compression/Maximum       26 lb up at 7-6-0, 65 lb down and 26 lb up at 9-6-0, 65         Tension       lb down and 26 lb up at 11-6-0, 65 lb down and 26 lb up at 11-6-0, 65 lb down and 26 lb up at 11-6-0, 65 lb down and 26 lb up at 15-6-0, and 65 lb         DRD       1-2=0/43, 2-3=-1016/306, 3-4=-723/243,       at 13-6-0, 65 lb down and 26 lb up at 15-6-0, and 65 lb         4-6=-2613/820, 6-7=-723/243,       down and 26 lb up at 17-6-0, and 57 lb down and 28 lb         7-8=-1016/304, 8-9=0/43, 2-16=-785/201,       up at 19-18 on top chord, and 17 lb down and 13 lb up at 3-6-0, 11 lb down									un.				
WEBS		1975/616, 4-14=0/2 )/243, 6-11=-1975/62		down and 13 up at 17-6-0 on bottom ch	, 11 lb down and b lb up at 15-6-0, a , and 17 lb down a lord. The design/s	and 11 lk and 13 lk selection	down and 1 up at 19-0- of such	3 lb				TATE OF	MISSOL	
NOTES 1) Unbalance this design	ed roof live loads have	been considered for	9)	In the LOAD	evice(s) is the res CASE(S) section, are noted as front	loads a	oplied to the	ace			E*	GAR		
<ol> <li>Wind: ASC (IRC2012) Cat. II; Exp zone; cant and right e DOL=1.60</li> </ol>	<ul> <li>2) Wind: AŠCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>LOAD CASE(S) Standard</li> <li>Dead + Roof Live (balanced): Lumber Increase=1.15, Uniform Loads (lb/ft) Vert: 1-2=-70, 2-3=-70, 3-7=-70, 7-8=-70, 8-9=-70, 10-16=-20</li> </ul>													

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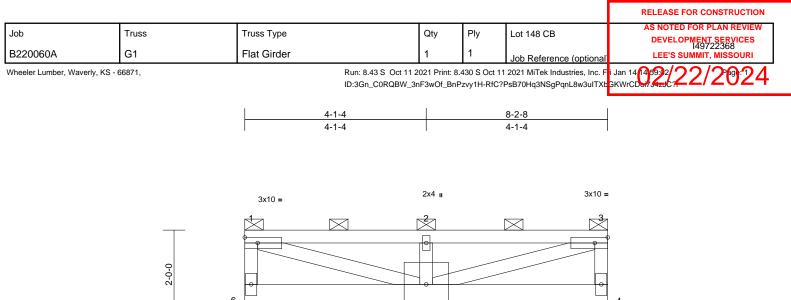
Scolo	_	1:33.8
Scale	=	1:33.8

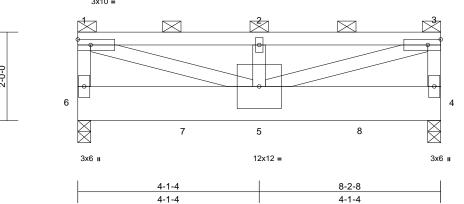
												i	
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15		TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.04	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC201	2/TPI2007	Matrix-R							Weight: 44 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood shu 10-0-0 oc purlins, or Rigid ceiling directly bracing. (Ib/size) 10=128/ 12=198/ 14=198/ 16=128/ Max Horiz 16=-135 Max Uplift 10=-40 ( 12=-73 ( 15=-86 ( Max Grav 10=133 12=202 ( 14=202 ( 16=142 (	(LC 6) LC 5), 11=-82 (LC 9), LC 9), 14=-72 (LC 8), LC 8), 16=-58 (LC 4) LC 20), 11=161 (LC 1 LC 16), 13=176 (LC 1 LC 15), 15=170 (LC 1	), 4) ), 5) ), 6) (, 7) 8) 8) 9) 6), 5)	<ul> <li>(IRC2012)=5</li> <li>Cat. II; Exp ( zone; cantilé and right exp DOL=1.60</li> <li>Truss desigr only. For stu see Standar or consult qu</li> <li>All plates are or consult qu</li> <li>All plates are braced agais</li> <li>Gable requir</li> <li>Truss to be f braced agais</li> <li>Gable studs</li> <li>This truss ha chord live lo</li> <li>* This truss l on the bottoo 3-06-00 tall l chord and at</li> <li>Provide mec bearing plate</li> </ul>	7-10; Vult=115m 21mph; TCDL=6.0 C; Enclosed; MW ever left and right boosed; Lumber D and for wind loads uds exposed to w d Industry Gable ualified building d a 2x4 MT20 unles es continuous bo fully sheathed froi nst lateral movem spaced at 2-0-0 as been designed ad nonconcurrent has been designed ad nonconcurrent as been designed ad nonconcurrent as been designed ad nonconcurrent as been designed ad nonconcurrent as been designed ad nonconcurrent is capable of withs ift at joint 10, 72 l	opsf; BCE FRS (env exposed OL=1.60   s in the pl. ind (norm End Deta esigner a: ss otherwi thom chor m one fac ent (i.e. d oc. I for a 10.t t with any ed for a liv as where will fit betv s. on (by oth standing 5	DL=6.Öpsf; h= elope) exteric ; end vertical olate grip ane of the tru al to the face ills as applica s per ANSI/TI e or securely iagonal web) D psf bottom other live loa e load of 20.0 a rectangle veen the bott ers) of truss t 8 lb uplift at j	or left ss ), ble, PI 1. ds. Dpsf om o					
TOP CHORD	Tension 2-16=-121/46, 1-2= 3-4=-53/82, 4-5=-44 6-7=-39/77, 7-8=-5- 8-10=-121/32	5/114, 5-6=-37/108,	L		15, 73 lb uplift at						3	ATE OF	MISSOU
BOT CHORD		5=-64/66, 13-14=-64/6 2=-64/66, 10-11=-64/6									E	S JU	AN P
WEBS	5-13=-137/0, 4-14= 6-12=-163/100, 7-1	-162/99, 3-15=-120/90 1=-116/88	О,								Ξ*		₩. <b>*</b> =
NOTES											= 0		
1) Unhalance	ed roof live loads have	been considered for										NUM	DEN ://

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

January 17,2022







Scale = 1:26.1

Scale = 1:26.1												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	тс	0.42	Vert(LL)	-0.05	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	-0.10	5	>908	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.57	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-P		Wind(LL)	0.03	5	>999	240	Weight: 53 lb	FT = 10%
LUMBER				or other connect			210					

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x10 SP DSS
WEBS	2x4 SPF No.2
BRACING	
TOP CHORD	2-0-0 oc purlins (3-7-13 max.): 1-3, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(lb/size) 4=1758/0-3-8, 6=2547/0-3-8
	Max Horiz 6=56 (LC 5)
	Max Uplift 4=-249 (LC 5), 6=-344 (LC 4)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-6=-927/161, 1-2=-2171/299,
	2-3=-2171/299, 3-4=-927/161
BOT CHORD	5-6=-49/44, 4-5=-21/16
WEBS	1-5=-332/2316, 2-5=-311/156, 3-5=-332/2316

NOTES

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior 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.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 344 lb uplift at joint 6 and 249 lb uplift at joint 4.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 912 lb down and 111 lb up at 0-1-12, 893 lb down and 113 lb up at 2-4-8, and 893 lb down and 113 lb up at 4-4-8, and 893 lb down and 113 lb up at 6-4-8 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)
  - Vert: 1-3=-70, 4-6=-20
  - Concentrated Loads (lb) Vert: 6=-912 (F), 5=-893 (F), 7=-893 (F), 8=-893 (F)

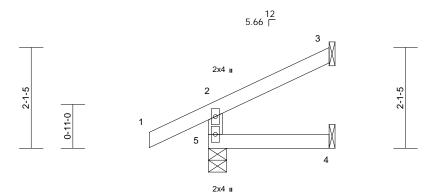




						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 148 CB	AS NOTED FOR PLAN REVIEW
B220060A	J1	Diagonal Hip Girder	2	1	Job Reference (optional	DEVELOPMENT SERVICES 149722369 LEE'S SUMMIT, MISSOURI
	-					00/00/000/

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Jan 14 (459)2/22/29:24 ID:7ufEnKQ9fujLYxwXHEyji\_zvy1J-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW CDoi7J4c00:





2-6-5

Scale	- 1	1.24	1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	4-5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	0.00	4-5	>999	240			
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a			
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%	
LUMBER TOP CHORI BOT CHORI WEBS BRACING TOP CHORI BOT CHORI	<ul> <li>D 2x4 SPF No.2 2x4 SPF No.2</li> <li>D Structural wood she 2-6-5 oc purlins, ex</li> <li>D Rigid ceiling directly bracing.</li> </ul>	cept end verticals. applied or 10-0-0 o											
NEACTION.	REACTIONS         (Ib/size)         3=57/ Mechanical, 4=18/ Mechanical, 5=230/0-4-9           Max Horiz         5=58 (LC 8)           Max Uplift         3=-40 (LC 8), 5=-35 (LC 8)           Max Grav         3=57 (LC 1), 4=42 (LC 3), 5=230 (LC 1)												
FORCES	(lb) - Maximum Com	pression/Maximum											
TOP CHORI	Tension D 2-5=-202/59, 1-2=0/-	41 2-3=-47/18											
BOT CHORE	,	11,20-11/10											
NOTES 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60										MISSIL			
2) This trus	ss has been designed for									1	AL	0/1	
	e load nonconcurrent wi						-	Â	ANI				
	uss has been designed f ottom chord in all areas		upst							2	JU.	AIN	
	tall by 2-00-00 wide will		om							=*			
	any other members.	in Setween the Doll										4	
	mechanical connection (		0							= 5		162101	

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5 and 40 lb uplift at joint 3.

LOAD CASE(S) Standard

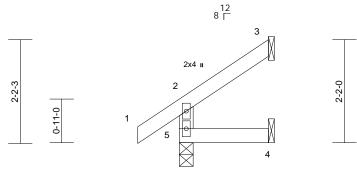
## JUAN ARCIA HUMBER E-2000162101



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Plv	Lot 148 CB	AS NOTED FOR PLAN REVIEW
000	11035	Thuss Type	Qty	i iy		DEVELOPMENT SERVICES 149722370
B220060A	J2	Jack-Open	10	1	Job Reference (optional)	
						00/00/000/

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Jan 14 (1459)2/22/29:124 ID:7ufEnKQ9fujLYxwXHEyj\_zvy1J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J4c001-

-0-10-8	1-10-8
0-10-8	1-10-8



2x4 u

1-10-8

Scale = 1:24.2

Scale = 1:24.2	2											
Loading TCLL (roof)	(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.07	<b>DEFL</b> Vert(LL)	in 0.00	(loc) 4-5	l/defl >999	L/d 240	PLATES MT20	<b>GRIP</b> 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-R							Weight: 7 lb	FT = 10%
LUMBER												
TOP CHORE	2x4 SPF No.2											
BOT CHORE												
WEBS	2x4 SPF No.2											
BRACING												
TOP CHORE												
BOT CHORE	1-10-8 oc purlins, e Rigid ceiling directly											
BOT CHORL	bracing.	applied of 10-0-0 0	ic .									
REACTIONS		chanical, 4=14/										
		al, 5=170/0-3-8										
	Max Horiz 5=61 (LC											
	Max Uplift 3=-41 (LC	C 8), 4=-4 (LC 8), 5=	-7 (LC									
	8) Max Cray 2-50 (LC	1E) 4 21 (I C 2) E	-170									
	Max Grav 3=50 (LC (LC 1)	15), 4=31 (LC 3), 5	=170									
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORE	Tension 2-5=-149/32, 1-2=0/	40 2 2 40/22										
BOT CHORE		40, 2-3=-49/22										
NOTES												
	SCE 7-10; Vult=115mph	(3-second aust) V										
	2)=91mph; TCDL=6.0ps		25ft;									
	xp C; Enclosed; MWFR											11.
	ntilever left and right exp		left								IN OF	MIS
and right DOL=1.6	exposed; Lumber DOL	=1.60 plate grip									NE	0.00
	s has been designed fo	r a 10.0 pef bottom								1	18	
	e load nonconcurrent wi		lds							20	S: JU	AN
	iss has been designed f									Ξ.	: GAR	
on the bo	ottom chord in all areas	where a rectangle								= *		A
	tall by 2-00-00 wide will	fit between the bott	om							2		
	d any other members.									= 7	NUM	BER :
	girder(s) for truss to tru		in the second							- ?	C. E-2000	• 41.
,	mechanical connection									-	A	

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 5, 4 lb uplift at joint 4 and 41 lb uplift at joint 3.

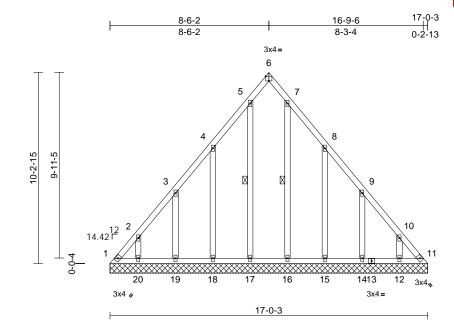
LOAD CASE(S) Standard





						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 148 CB	
B220060A	LAY1	Lay-In Gable	1	1	Job Reference (optional	DEVELOPMENT SERVICES 149722371 LEE'S SUMMIT, MISSOURI

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Fi Jan 14 (1469) 2/22/26 24 ID:7ufEnKQ9fujLYxwXHEyji\_zvy1J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J42001



Scale = 1:61.7

Plate Offsets (X, Y): [6:Edge,0-3-1]

	(X, Y): [6:Edge,0-3-1]	-			-	-						-	
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES IRC2012/T	PI2007	CSI TC BC WB Matrix-S	0.07 0.06 0.12	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 93 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	RD       2x4 SPF No.2       8-15=-184/201, 9-14=-177/175, 10-12=-154/153         RD       Structural wood sheathing directly applied or 6-0-0 oc purlins.       1)       Unbalanced roof live loads have been considered for this design.         RD       Rigid ceiling directly applied or 10-0-0 oc bracing.       1)       Understanding treestly applied or 10-0-0 oc bracing.       2)         I Row at midpt       5-17, 7-16       2-17, 7-16       2.11 I; Exp C; Enclosed; MWFRS (envelope) exterior								MISSO				
FORCES	4-5=-119/69, 5-6=-6	370/195, 3-4=-217/132	, jo 2, 1 U jo	bearing plate bint 1, 140 ll 50 lb uplift a uplift at joint bint 15, 150	hanical connection capable of withs b uplift at joint 11, at joint 19, 174 lb 17, 33 lb uplift at lb uplift at joint 14	tanding 1 , 137 lb u uplift at j joint 16,	58 lb uplift at olift at joint 20 oint 18, 48 lb 177 lb uplift a	), t				JUA BAR	R. *
BOT CHORD	1-20=-142/328, 19-2 18-19=-142/328, 17- 16-17=-142/328, 15- 14-15=-142/328, 12- 11-12=-142/328	-18=-142/328, -16=-142/328,		2. D CASE(S)	Standard							NUM E-2000	162101

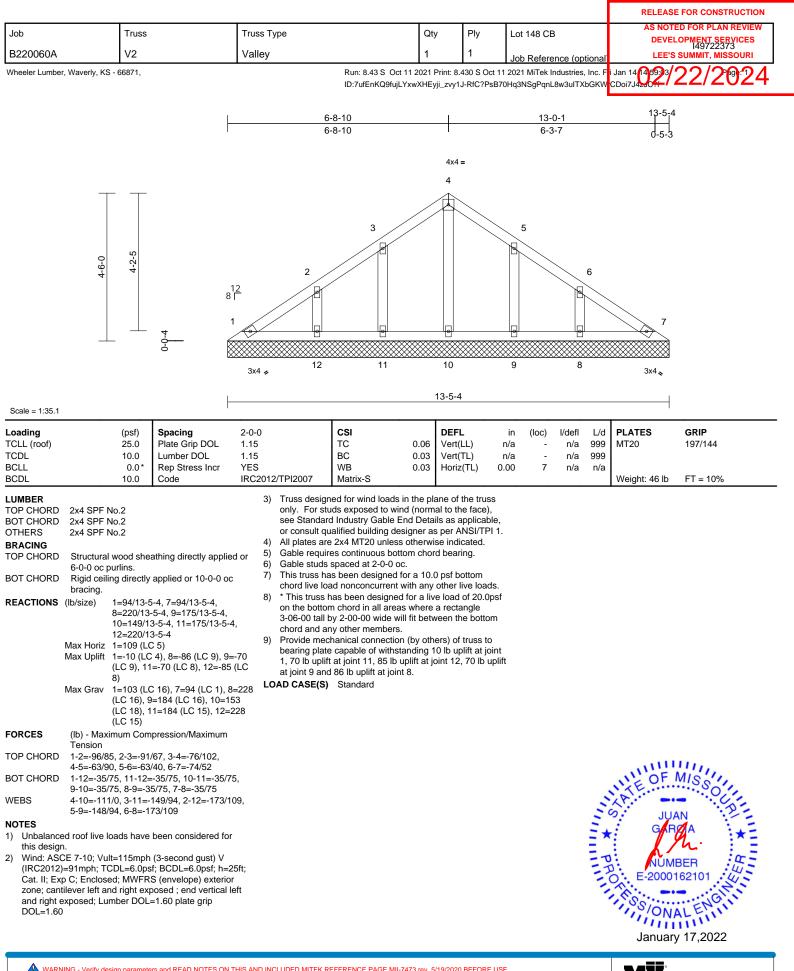
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



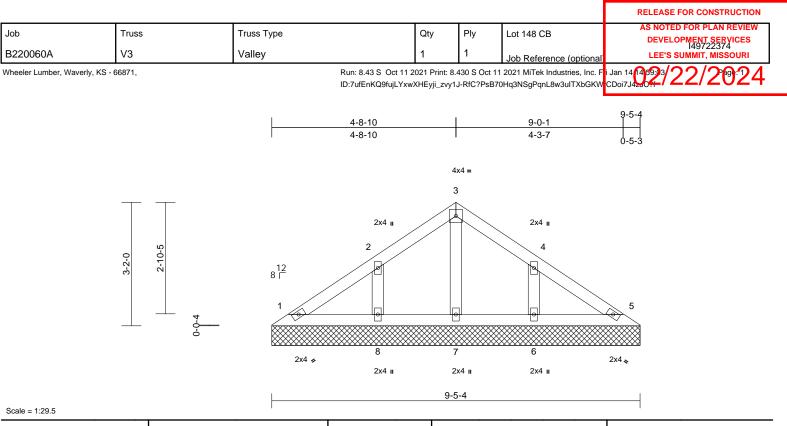
										RELEAS	SE FOR CONSTRUCTION	
Job		Truss		Truss Type		Qty	Ply	Lot 148 CB			TED FOR PLAN REVIEW	
B220060A		V1		Valley		1	1	Job Reference	co (optional	1 5 5 10	ELOPMENT SERVICES 149722372 S SUMMIT, MISSOURI	
Wheeler Lumber,	r, Waverly, KS	- 66871,		<u> </u>	Run: 8.43 S Oct 11 2			11 2021 MiTek Indu	ustries, Inc. F	i Jan 14 14 59:02 '	22/2024	
					ID:7ufEnKQ9fujLYxw	/XHEyji_zvy1	IJ-RfC?PsB7	/0Hq3NSgPqnL8w	3ulTXbGKW	CDoi7J42JO		
			I	8-8-1	-10	I		17-0-1	1	17-5	4- <sup>ز</sup>	
				8-8-1				8-3-7		0-5-3		
						4x4 =						
						5						
	T	$\top$					<					
					4		$\langle $	6				
					P		Þ	$\sim$				
	0-	5-6-5		3	•			7				
	5-10-0	5-6			4				$\sim$			
			12	2						8		
			12 8 Г						Ľ\$	$\sim$		
		⊥ 4	. 1							9	i -	
	<u> </u>	0-0 4	,							XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	
			3x4 🞜	17	16 15	14	13	12	1110	3X4 💊		
									3x4 =			
Scale = 1:42.4						17-5-4					+	
	. <u> </u>	(205)						··· (lao)				
Loading TCLL (roof)		(psf) 25.0	Spacing Plate Grip DOL	2-0-0 1.15		0.06 Vert		. ,	l/defl L/d n/a 999	MT20	<b>GRIP</b> 197/144	
TCDL BCLL		10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 YES		0.03 Vert( 0.07 Horiz	. ,		n/a 999 n/a n/a			
BCDL		10.0	Code	IRC2012/TPI2007	Matrix-S					Weight: 66 lb	FT = 10%	
		· •			CE 7-10; Vult=115mph (3 =91mph; TCDL=6.0psf;			n.				
TOP CHORD BOT CHORD	2x4 SPF No	lo.2		Cat. II; Exp	p C; Enclosed; MWFRS	(envelope)	) exterior	,				
OTHERS BRACING	2x4 SPF No	0.2		and right ex	tilever left and right expo exposed; Lumber DOL=1							
TOP CHORD			athing directly applied	d or DOL=1.60 3) Truss desig	igned for wind loads in th	he plane o	f the truss					
BOT CHORD			applied or 10-0-0 oc	only. For st	studs exposed to wind (r ard Industry Gable End I	normal to th	the face),					
REACTIONS	bracing. (lb/size) 1	1=93/17-5	5-4, 9=93/17-5-4,	or consult q	qualified building design are 2x4 MT20 unless oth	ner as per A	ANSI/TPI 1.					
•••	ໍ 1	10=222/17	7-5-4, 12=166/17-5-4, 7-5-4, 14=143/17-5-4,	1, 5) Gable requi	uires continuous bottom							
	1	15=191/17	7-5-4, 16=166/17-5-4,	(1 6) Gable studs	ds spaced at 2-0-0 oc. has been designed for a	a 10.0 psf !	bottom					
	Max Horiz 1		.C 4)	chord live lo	load nonconcurrent with s has been designed for	h any other	r live loads.					
		· ·	C 4), 10=-86 (LC 9), .C 9), 13=-73 (LC 9),	on the botto	tom chord in all areas whill by 2-00-00 wide will fit	here a recta	tangle					
		15=-74 (LC 17=-86 (LC	C 8), 16=-66 (LC 8), C 8)	chord and a	any other members.							
	Max Grav 1	1=114 (LC	C 16), 9=93 (LC 1), LC 16), 12=173 (LC 16	bearing plat	echanical connection (by ate capable of withstand	ding 21 lb u	uplift at joint	,t				
	1	13=199 (L0	LC 16), 14=167 (LC 18	18), unlift at joint	olift at joint 15, 66 lb uplift nt 17, 73 lb uplift at joint			ıt				
	1	17=231 (L0			lb uplift at joint 10.	,	····.					
FORCES	(lb) - Maxim Tension	num Comp	pression/Maximum		) Stanuaru					WE	MICH	
TOP CHORD	1-2=-132/11		110/82, 3-4=-93/99, 9/123, 6-7=-58/63,						,	NYE	SSO	
	7-8=-71/31,	1, 8-9=-97/6	/64						1	S. JU	AN	
BOT CHORD	OT CHORD 1-17=-49/102, 16-17=-49/102, 15-16=-49/102, 14-15=-49/102,										Ex: AP	
	13-14=-49/1 10-12=-49/1	/102, 12-13	13=-49/102,							1 h.	the second	
WEBS	5-14=-128/1	/1, 4-15=-1	,159/98, 3-16=-137/90 3=-158/97, 7-12=-137/						=	DE DOOD	BER	
	2-17=-175/1 8-10=-175/1		=-150/91, 1-12- 1017	90,					1	0. E-2000	162101	
NOTES 1) Unbalance	ed roof live lo	ads have	been considered for							SS/ON	AT ENGIN	
this design		100.10.2	50011 00.10100 - 2 - 1									
										Januar	ry 17,2022	
WARN	NING - Verify desi	rign paramete	are and READ NOTES ON "		REFERENCE PAGE MII-7473	3 rev 5/19/20(	20 BEFORE U					
<u> </u>	and completely	gir paramen	.5 dhu (\_/ 00		ers shown, and is for an individu	164.0.10.20	J DEI 0112 2 .	۶ <u>۲</u> .				

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT-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 **ANS/ITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd Chesterfield, MO 63017



Mitek\* 16023 Swingley Ridge Rd Chesterfield, MO 63017



Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2012	2/TPI2007	CSI TC BC WB Matrix-S	0.06 0.03 0.02	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	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: 28 lb	<b>GRIP</b> 197/144 FT = 10%
	6=231/9-5 8=231/9-5 Max Horiz 1=-74 (LC Max Uplift 1=-9 (LC 9 (LC 8) Max Grav 1=91 (LC	applied or 10-0-0 oc 4, 5=91/9-5-4, 5-4, 7=125/9-5-4, 5-4 : 4) 9), 6=-91 (LC 9), 8=-	; 8) LC 91 240	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Provide mec bearing plate	spaced at 2-0-0 d s been designed d nonconcurrent has been designe n chord in all are y 2-00-00 wide v y other members hanical connection capable of withs at joint 8 and 91 Standard	I for a 10.0 t with any ed for a liv as where will fit betw s. on (by othe standing 9	other live loa e load of 20.0 a rectangle veen the botto ers) of truss t l b uplift at jo	Opsf om o					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=-74/63, 2-3=-71, 4-5=-56/43	/69, 3-4=-64/58,											
BOT CHORD	1-8=-23/50, 7-8=-23, 5-6=-23/50	/50, 6-7=-23/50,											
WEBS	3-7=-94/0, 2-8=-185	/115, 4-6=-184/115										, in the	Mar.
NOTES												ILLE OF	MISS
this design	ed roof live loads have n. CE 7-10; Vult=115mph										111	JU/	. 0-

- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
   Coble requires exclusions between the unit.
- 4) Gable requires continuous bottom chord bearing.

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16023 Swingley Ridge Rd Chesterfield, MO 63017

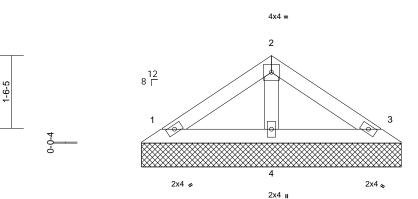
						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Truss Type Qty Ply Lot 148		Lot 148 CB	
B220060A	V4	Valley	1	1	Job Reference (optiona	DEVELOPMENT SERVICES 149722375 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly,	KS - 66871,	R	un: 8.43 S Oct 11 2021 Print: 8. ):7ufEnKQ9fujLYxwXHEyji_zvy1	.430 S Oct 1 J-RfC?PsB	11 2021 MiTek Industries, Inc. I 70Hq3NSgPqnL8w3uITXbGKV	i Jan 14 14 1993 / 22 / 2924 CDoi7 J 420 1
		1	2-8-10	I	5-0-1	

2-8-10

2-3-7

0-5-3

ľ



5-5-4

Scale =	1.2/1

1-10-0

Scale = 1.24.1													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a			
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-P	-						Weight: 14 lb	FT = 10%	
LUMBER			8) Provide	mechanical connect	ion (by oth	ers) of truss	to						
TOP CHORD	2x4 SPF No.2			plate capable of with									
BOT CHORD			1 and 30	b uplift at joint 3.									
OTHERS	2x4 SPF No.2		LOAD CASE	(S) Standard									
BRACING													
TOP CHORD	Structural wood she	athing directly applie	ed or										
	5-6-0 oc purlins.												
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	C										
	bracing.												
REACTIONS	(lb/size) 1=111/5-5 4=187/5-5	5-4, 3=111/5-5-4, 5-4											
	4=107/5-0 Max Horiz 1=-39 (LC												
	Max Uplift 1=-24 (LC												
FORCES	(lb) - Maximum Corr												
	Tension	.p. coolor / Maximum											
TOP CHORD		/25											
BOT CHORD	1-4=-8/28, 3-4=-8/28	3											
WEBS	2-4=-131/33												
NOTES													
,	ed roof live loads have	been considered for	r										
this desigr													
	CE 7-10; Vult=115mph		050										
	)=91mph; TCDL=6.0ps p C; Enclosed; MWFR												
	tilever left and right exp										, unit	1111	
	exposed; Lumber DOL										NEOFI	MISSI	
DOL=1.60		F									XE.	0,	
3) Truss des	igned for wind loads in	the plane of the true	SS							5	X		-
	studs exposed to wind	( )								-	JUA	N	
	lard Industry Gable En										GAR		+=
	qualified building desi		41.								:	n. :	2 =
	uires continuous botto ds spaced at 2-0-0 oc.	m chora bearing.									: N/		~ =
	has been designed fo	r a 10.0 psf bottom									NUME	• 4	ii -
	load nonconcurrent wi		ds.							-	C: E-20001	62101 .4	1-
	s has been designed f									1	~~···		-
	tom chord in all areas										1,58,	ENGI	
	Il by 2-00-00 wide will	fit between the botto	om								IT ON	LEIN	
chord and	any other members.												
												47 0000	

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