

MiTek, Inc.

314.434.1200

16023 Swingley Ridge Rd. Chesterfield, MO 63017

RE: 240612 Lot 116 MN

#### Site Information:

Customer: Avital Homes Project Name: 240612 Lot/Block: Address: State: City:

Model: Serenity - Craftsman 3rd Car Subdivision:

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

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7 - 16[Low Rise] Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.7 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 49 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Seal# I64102244 I64102245 I64102246 I64102247 I64102248 I64102250 I64102251 I64102252 I64102253 I64102255 I64102255 I64102255 I64102257 I64102258 I64102259 I64102259 I64102260 I64102260	Truss Name A1A A2 A2A A3 A4 B1 B2 B3 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	Date 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024	No. 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 28	Seal# I64102264 I64102265 I64102265 I64102267 I64102268 I64102270 I64102270 I64102271 I64102273 I64102273 I64102275 I64102276 I64102277 I64102277 I64102278 I64102279 I64102280 I64102280 I64102281	Truss Name G1 G2 G3 G4 H1 H2 J1 J2 J3 J4 J5 J6 J7 J8 J9 J10 J11 J12	Date 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024
17 18 19 20	I64102260 I64102261 I64102262 I64102263	E9 E10 E11 E12	3/7/2024 3/7/2024 3/7/2024 3/7/2024	37 38 39 40	I64102280 I64102281 I64102282 I64102282 I64102283	J11 J12 LAY1 LAY2	3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024

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, 2024.

Kansas COA: E-943

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





RE: 240612 - Lot 116 MN

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 04/02/2024

#### MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

#### Site Information:

Project Customer: Avital HomesProject Name: 240612Lot/Block:Subdivision:Address:State:

No.	Seal#	Truss Name	Date
41	164102284	LAY3	3/7/2024
42	164102285	V1	3/7/2024
43	164102286	V2	3/7/2024
44	164102287	V3	3/7/2024
45	164102288	V4	3/7/2024
46	164102289	V5	3/7/2024
47	164102290	V6	3/7/2024
48	164102291	V7	3/7/2024
49	164102292	V8	3/7/2024



MiTek, Inc.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017

RE: 240612 Lot 116 MN

#### Site Information:

Customer: Avital Homes Project Name: 240612 Lot/Block: Model Address: Subdiv City: State:

40612 Model: Serenity - Craftsman 3rd Car Subdivision: State:

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

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7 - 16[Low Rise] Roof Load: 45.0 psf Design Program: MiTek 20/20 8.7 Wind Speed: 115 mph Floor Load: N/A psf

This package includes 49 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 23 14 15 16 17 18	Seal# I64102244 I64102245 I64102246 I64102247 I64102248 I64102249 I64102250 I64102251 I64102252 I64102253 I64102255 I64102255 I64102256 I64102257 I64102258 I64102259 I64102260 I64102261	Truss Name A1A A2 A2A A3 A4 B1 B2 B3 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	Date 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024	No. 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	Seal# I64102264 I64102265 I64102266 I64102267 I64102268 I64102269 I64102270 I64102270 I64102272 I64102273 I64102275 I64102276 I64102278 I64102279 I64102280 I64102281	Truss Name G1 G2 G3 G4 H1 H2 J1 J2 J3 J4 J5 J6 J7 J6 J7 J8 J9 J10 J11 J12	Date 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024
17 18 19 20	l64102260 l64102261 l64102262 l64102263	E9 E10 E11 E12	3/7/2024 3/7/2024 3/7/2024 3/7/2024	37 38 39 40	l64102280 l64102281 l64102282 l64102283	J11 J12 LAY1 LAY2	3/7/2024 3/7/2024 3/7/2024 3/7/2024
10 11 12 13 14 15 16 17 18 19 20	I64102253 I64102255 I64102255 I64102256 I64102257 I64102258 I64102259 I64102260 I64102261 I64102262 I64102263	E2 E3 E4 E5 E6 E7 E8 E9 E10 E11 E12	3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024 3/7/2024	30 31 32 33 34 35 36 37 38 39 40	I64102273 I64102274 I64102275 I64102276 I64102277 I64102278 I64102279 I64102280 I64102281 I64102282 I64102283	J4 J5 J6 J7 J8 J9 J10 J11 J12 LAY1 LAY2	3/1 3/1 3/1 3/1 3/1 3/1 3/1 3/1 3/1 3/1

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, 2024. 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



RE: 240612 - Lot 116 MN

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 04/02/2024

#### MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

#### Site Information:

Project Customer: Avital HomesProject Name: 240612Lot/Block:Subdivision:Address:State:

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42	164102285	V1	3/7/2024
43	164102286	V2	3/7/2024
44	164102287	V3	3/7/2024
45	164102288	V4	3/7/2024
46	164102289	V5	3/7/2024
47	164102290	V6	3/7/2024
48	164102291	V7	3/7/2024
49	164102292	V8	3/7/2024



braced against lateral movement (i.e. diagonal web). 6)

BOT CHORD

WEBS

OTHERS

BRACING

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

WFBS

NOTES

this design

1)

2)

3)

4)

**REACTIONS** (size)

2x4 SPF No.2

2x4 SPF No 2

Max Horiz 11=-69 (LC 28)

1-2=-352/159, 2-3=-1902/541,

1-11=-230/94. 5-7=-323/102

10-11=-529/1778, 8-10=-266/1277,

2-10=-191/229, 2-11=-1724/418,

Unbalanced roof live loads have been considered for

Vasd=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. All plates are 2x4 MT20 unless otherwise indicated.

Wind: ASCE 7-16; Vult=115mph (3-second gust)

bracing

Tension

7-8=-427/1749

4-7=-1694/433

2x3 SPF No.2 \*Except\* 11-1,7-5:2x6 SPF

Structural wood sheathing directly applied or

7=0-3-8, 11= Mechanical

No.2, 12-13,13-14,14-15:2x4 SPF No.2

2-11-6 oc purlins, except end verticals.

Rigid ceiling directly applied or 7-8-11 oc

Max Uplift 7=-315 (LC 9), 11=-356 (LC 8)

Max Grav 7=1269 (LC 1), 11=1211 (LC 1)

(lb) - Maximum Compression/Maximum

3-4=-1881/502, 4-5=-356/102, 5-6=0/30,

3-8=-186/648. 4-8=-177/229. 3-10=-242/677.

Gable studs spaced at 2-0-0 oc.

- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf 8) 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.
- All bearings are assumed to be SPF No.2 .
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 356 lb uplift at joint 11 and 315 lb uplift at joint 7.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d
- (0.148"x3.25") toe-nails per NDS guidlines.

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 121 lb up at 2-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

15) 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, 1) Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-70, 3-5=-70, 5-6=-70, 7-11=-20
  - Concentrated Loads (lb) Vert: 9=-62 (F), 10=-62 (F), 25=-90 (F), 26=-62 (F),
  - 27=-62 (F), 28=-62 (F), 29=-62 (F), 30=-62 (F), 31=-62 (F)



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🙏 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 trust 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**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



- 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.
- 5) All bearings are assumed to be SPF No.2 .

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													RELEASE	FOR CONSTRUCTION
Job		Truss		Truss T	уре		Qty	Ply	L	ot 116 MI	N		AS NOTE DEVEL	D FOR PLAN REVIEW
240612		A2A		Comm	on		3	1	Jo	ob Refere	ence (op	tional	LEE'S	I64102246 SUMMIT, MISSOURI
Wheeler Lumber, W	Vaverly, KS - 60	6871,				Run: 8.73 S F ID:9wV7C5iB8	eb 22 2024 P ZwNZTQMrri	rint: 8.730 S F9XyKyAf-F	S Feb 22 20 RfC?PsB70	)24 MiTek )Hq3NSgP	Industries qnL8w3ul	s, Inc. 1 TXbGH	hu Mar (7) 146:76 WrCDoi794zJC? <del>f</del>	02/2024
			4-2-8		10-	-4-0			16-5-8				20-8-0	21-6-8
			4-2-8	I	6-	1-8			6-1-8				4-2-8	0-10-8
							4x8 =							
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				5	_		$/\!\!/\!\!\!\wedge$	$\geq$						
				3x6 ≠				$\langle \rangle$	$\sim$			3x6 👟		
				2							$\geq$	4		
5-1		3x4 "		Æ					$\langle \rangle$		$\rightarrow$	Ð		Зх4 II
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	5 11	L.	]		<u> </u>			•						
		3x1	0 =		10			9		8				3x10 =
					3x4 =			3x4 =		3x4 =				
			6-4-12				14-3-4					20	-8-0	
Scale = 1:41.5			6-4-12				7-10-7			•		6-4	<del>1</del> -12	·
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 IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.56 0.48 0.67	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.09 -0.20 0.04 0.04	(loc) 8-10 8-10 7 8-10	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 73 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER TOP CHORD 2 BOT CHORD 2 WEBS 2 WEBS 2 N BRACING 5 BOT CHORD 5 BOT CHORD 6 C BOT CHORD 6 C BOT CHORD 6 C C C C C C C C C C C C C C C C C C C	2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 No.2 Structural wo 3-10-9 oc pur Rigid ceiling o oracing. ize) 7= ax Horiz 11	2 2 2 *Exce dins, e directly 0-3-8, 1 =-69 (I	ept* 11-1,7-5:2x6 SF athing directly applie xcept end verticals. applied or 10-0-0 o 11= Mechanical C 9)	6) 7) F 8) ed or LC	Refer to girc Provide mec bearing plat 11 and 141 This truss is Internationa R802.10.2 a DAD CASE(S)	ler(s) for truss to chanical connect e capable of with lb uplift at joint 7 designed in acc I Residential Coo and referenced st Standard	truss conne ion (by othe istanding 11 ordance wit de sections randard ANS	ections. rs) of truss l6 lb uplift h the 2018 R502.11.1 SI/TPI 1.	s to at joint } and				IN E OF	MISSON
Ma Ma FORCES (I	ax Uplift 7= ax Grav 7= (lb) - Maximu	-141 (L 989 (LC m Com	C 9), 11=-116 (LC 8 C 1), 11=907 (LC 1) pression/Maximum	3)								in in	スマー クロリレム GAR	
TOP CHORD 1	1 ension 1-2=-236/30, 1-5=-249/34,	2-3=-1 5-6=0/3	380/188, 3-4=-1372 30, 1-11=-179/42,	/186,									NIL IN A	
BOT CHORD 1	5-7=-274/71 10-11=-228/1	341, 8-	-10=-60/960,										E-20001	62101
WEBS 3	7-8=-163/132 3-8=-49/404, 2-10=-254/18	25 4-8=-2 89, 2-11	43/187, 3-10=-50/4 <sup>-</sup> =-1340/206,	14,									SSIONI	LENGIII
4 NOTES 1) Unbalanced r	4-7=-1313/19	9 Is have	been considered fo	r										
this design. 2) Wind: ASCE Vasd=91mph II; Exp C; End cantilever left	7-16; Vult=1 n; TCDL=6.0 closed; MWF	15mph psf; BC FRS (er	(3-second gust) DL=6.0psf; h=25ft; ( ivelope) exterior zor	Cat. ne;								-	LICE	NSEO
<ul><li>right exposed</li><li>3) This truss has chord live load</li></ul>	d; Lumber DO is been desig	DL=1.6 Ined for	0 plate grip DOL=1. r a 10.0 psf bottom th any other live loa	- 60 ds.								11111	16	952
<ul> <li>4) * This truss h on the bottom 3-06-00 tall b</li> </ul>	nas been des n chord in all by 2-00-00 wi	igned f areas de will	or a live load of 20.0 where a rectangle fit between the botto	)psf om									BORKE	ISAS SAL
<ul><li>chord and an</li><li>5) All bearings a</li></ul>	ny other mem are assumed	bers. to be \$	SPF No.2 .										S/ON	ALENIN



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March 7,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



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- TOP CHORD Structural wood sheathing directly applied or 5-11-5 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing REACTIONS 7=0-5-8, 12=0-3-8 (size) Max Horiz 12=72 (LC 8)
- Max Uplift 7=-1164 (LC 9), 12=-989 (LC 8) Max Grav 7=7749 (LC 1), 12=5615 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/30, 2-3=-11133/1966, 3-4=-9010/1513, 4-5=-9014/1513, 5-6=-11822/1817, 2-12=-5441/1006, 6-7=-5560/889 BOT CHORD 11-12=-469/2267. 10-11=-1819/10178. 8-10=-1632/10834, 7-8=-480/3110 WEBS 2-11=-1358/7955, 6-8=-1158/7768, 3-11=-326/1637, 3-10=-2200/584 4-10=-1048/6489, 5-10=-3021/434, 5-8=-182/2364

#### NOTES

3-ply truss to be connected together with 10d 1) (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-6-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 4) 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) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom 6)
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 989 lb uplift at joint 12 and 1164 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Use Simpson Strong-Tie HGUS26-2 (20-10d Girder, 8-10d Truss) or equivalent at 6-0-13 from the left end to connect truss(es) to back face of bottom chord.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-0 from the left end to 20-0-0 to connect truss(es) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber. LOAD CASE(S) Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, 1) Plate Increase=1.15 Uniform Loads (lb/ft)
  - Vert: 1-2=-70, 2-4=-70, 4-6=-70, 7-12=-20

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March 7,2024

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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 116 MN	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
240612	B1	Monopitch Supported Gable	1	1	Job Reference (optional	164102249 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Wa	averly, KS - 66871,		eb 22 2024 Print:	8.730 S Feb	22 2024 MiTek Industries, Inc. PsB70Ha3NSaPapi 8w3uITXbGI	hu Mar 146: 02/2024
		12.5wv765126		yrtyAi-110 : 1		
		-0-10-8	4-1-4			
			12 5 Г		2x4 II	
	_		2x4 II			

2

3x10 u

7

1

P

0

6

2x4 II

4-1-4

2-6-8

6 5

2x4 II

Scale = 1:26.9 Plate Offsets (X, Y): [7:0-5-8.0-1-8] 2-6-8

0-10-0

Plate Offsets (	X, Y): [7:0-5-8,0-1-8]													
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 IRC2018	8/TPI2014	<b>CSI</b> TC BC WB Matrix-R	0.07 0.03 0.02	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: 14 lb	<b>GRIP</b> 197/144 FT = 10%	
BCDL LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=91m II; Exp C; I cantilever right expc. 2) Truss to be braced age 4) Gable stud	10.0 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 *Exce 2x4 SPF No.2 *Exce 2x4 SPF No.2 Structural wood she 4-1-4 oc purlins, exx Rigid ceiling directly bracing. (size) 5=4-0-0, 6 Max Horiz 7=102 (LC Max Uplift 5=-11 (LC (LC 4) Max Grav 5=76 (LC (LC 1) (lb) - Maximum Com Tension 2-7=-141/41, 1-2=0/ 3-4=-54/18, 4-5=-59, 6-7=-32/23, 5-6=-32 3-6=-141/84 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 signed for wind loads ir studs exposed to wind ard Industry Gable En- qualified building desig e fully sheathed from co ainst lateral movement ds spaced at 2-0-0 oc.	Code ppt* 4-5:2x3 SPF No. athing directly applie cept end verticals. applied or 10-0-0 oc 5), 6=-67 (LC 8), 7= 1), 6=183 (LC 1), 7= pression/Maximum 27, 2-3=-67/21, /22 /23 (3-second gust) DL=6.0psf; h=25ft; C nvelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 n the plane of the tru 1 (normal to the face) d Details as applicat gner as per ANSI/TP pone face or securely t (i.e. diagonal web).	IRC2018         6)         2         7)         8)         ed or         5         9)         10        29        29         -159         -159         Cat.         -e;         50         ss         >,         >,         -11.	8/TPI2014 * This truss h on the botton 3-06-00 tall b chord and an All bearing plate 7, 11 lb uplift Non Standar 1) This truss is International R802.10.2 ar CAD CASE(S)	Matrix-R has been designed in chord in all areas by 2-00-00 wide will by other members. are assumed to be hanical connection to capable of withsta at joint 5 and 67 lt d bearing condition designed in accord Residential Codes and referenced stan Standard	for a liv where I fit betw SPF No (by oth anding 2 o uplift a a. Revie lance w sections dard AN	e load of 20.0 a rectangle veen the botto 0.2. ers) of truss ti 19 lb uplift at ju 19 lb uplift at ju 10 lb	ppsf om obint nd				Weight: 14 lb JUA GARI NUME E-20001	FT = 10% $MISSO(R)$ $SER$ $62101$ $H$ $SER$ $G2101$ $H$ $GARCIA$ $SEO$ $SEO$ $SEO$ $SEO$ $SEO$ $SEO$	
chord live	load nonconcurrent wi	th any other live load	ds.									Marc	AL EN111	

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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Otv	Plv	Lot 116 MN	AS NOTED FOR PLAN REVIEW
005	11033		Giy	i iy		DEVELOPMENT SERVICES
240612	B2	Monopitch	5	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS -	66871,	Run: 8.73 S Feb 22 2	2024 Print: 8.	.730 S Feb 2	2 2024 MiTek Industries, Inc.	

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Thu Mar (77) 46:38 2/299124 ID:9wV7C5iB8ZwNZTQMrrrF9XyKyAf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGftWrCDoi794zJ07





Scale = 1:28.7

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

_														
Loa	ding		(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCL	L (roof)		25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCE	)L		10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240		
BCL	.L		0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCE	DL		10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 13 lb	FT = 10%
					LOAD CASE(S)	Standard								
TOF		2v4 SPF	No 2			olandara								
ROT		2x4 OF 1	No 2											
WF	BS	2x3 SPF	No 2 *Exce	ont* 5-2:2x4 SPF No	2									
DD/		210 01 1	140.2 2.00	pt 0 2.2x+ 011 140	.2									
		Structura		athing directly applie	ed or									
101	CHOILD	4-1-4 oc	nurlins ev	cent end verticals										
BOT	CHORD	Rigid ceil	ina directly	applied or 10-0-0 or	c									
501	I ONORD	bracing.	ing anoony		0									
REA	ACTIONS	(size)	4= Mecha	anical, 5=0-3-8									NE OF	NISS .
		Max Horiz	5=102 (LC	C 5)								1	A	0,1
		Max Uplift	4=-41 (LC	28), 5=-47 (LC 8)									A	. 0-
		Max Grav	4=164 (LC	C 1), 5=254 (LC 1)								-	🤊 JUA	IN
FOF	RCES	(lb) - Max	imum Com	pression/Maximum								+	GAR	
		Tension											:	: 2 =
TOF	P CHORD	1-2=0/27	, 2-3=-94/2	6, 3-4=-118/57,								5-1	• • • • • • • • • • • • • • • • • • •	im E
		2-5=-223	/78											BER :
BOT	r Chord	4-5=-30/2	22										C: E-20001	62101 :4
NOT	TES											1	A	1.2.1
1)	Wind: ASC	CE 7-16; Vu	llt=115mph	(3-second gust)									1.80	Gin
	Vasd=91m	nph; TCDL=	6.0psf; BC	DL=6.0psf; h=25ft; (	Cat.								I,ONA	LENN
	II; Exp C; I	Enclosed; N	/WFRS (er	velope) exterior zor	ne;								- 400	iiiii
	cantilever	left and righ	nt exposed	; end vertical left an	d									
2)	right expos	sed; Lumbe	er DOL=1.6	0 plate grip DOL=1.	60									uun.
2)	chord live	has been u	esigned ioi	r a 10.0 psi bollom	da								N AN C	ARO
3)	* This true	s has been	designed f	or a live load of 20 (	us. Inef								1. 70	A
3)	on the hot	tom chord i	n all areas	where a rectande	ipoi								CE	NSE
	3-06-00 ta	II by 2-00-0	0 wide will	fit between the botto	m									
	chord and	anv other r	nembers.										te di Anno 19	1 2
4)	All bearing	are assu	med to be S	SPF No.2 .									160	252
5)	Refer to gi	, irder(s) for t	russ to trus	ss connections.								-	10.	192
6)	Provide m	echanical c	onnection (	(by others) of truss t	0								7	1. 1.55
	bearing pla	ate capable	of withstar	nding 41 lb uplift at j	oint								0	My WE
	4 and 47 II	b uplift at jo	int 5.										AN	SAS
7)	This truss	is designed	l in accorda	ance with the 2018									1,001	ENGIN
	Internation	nal Residen	tial Code se	ections R502.11.1 a	nd								ON	ALLIN
	R802 10 2	and refere	nced stand	ard ANSI/TPL1										

March 7,2024



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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qtv	Plv	Lot 116 MN	AS NOTED FOR PLAN REVIEW
		11000 1990	ς.,	,		DEVELOPMENT SERVICES 164102251
240612	B3	Monopitch	2	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Wheeler Lumber Weyerly KS	66971	Bun: 8 72 6 Ech 22 7	0004 Drint: 0	720 S Eab 2	2 2024 MiTek Industrias Inc.	

n: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Ind



0-1-4	5-1-4
∏ 0-1-4	5-0-0

Scale = 1:30.3

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

Loading TCLL (roof)         (psf)         Spacing Plate Grip DOL 1.15         2-0-0 1.15         CSI TC         DEFL 0.01         in         (loc)         //deft         L/deft           BCL         10.0         Lumber DOL 10.0         1.15         BC         0.19         Vert(L1)         -0.02         4.5         >999         240           BCD         10.0         Rep Stress incr         YES         BC         0.19         Vert(CT)         0.00         4         n/a         m/a           BCD         10.0         Code         IRC2018/TPI2014         Matrix-R         00         4         n/a         n/a           BCD         10.0         Zx4 SPF No.2         Except * 5-2:2x4 SPF No.2         Standard         Vert(CT)         0.01         4.5         >999         240         Weight: 16 lb         FT = 10%           LUMBER         LOAD CASE(S)         Standard         Standard         Standard         Vert(CT)         0.01         4.5         >999         240         Weight: 16 lb         FT = 10%           LUMBER         LOAD CASE(S)         Standard         Standard         Vert(CT)         0.01         4.5         >999         240         Weight: 16 lb         FT = 10%           BCD CHORD
TCLL (root)       25.0       Plate Grip DOL       1.15       TC       0.31       Vert(LI)       -0.02       4-5       >999       240         TCDL       10.0       Lumber DOL       1.15       BC       0.19       Vert(CT)       -0.02       4-5       >999       240         BCL       0.0*       Rep Stress Incr       YES       BC       0.19       Vert(CT)       -0.02       4-5       >999       240         BCL       0.0*       Rep Stress Incr       YES       BC       0.19       Vert(CT)       -0.02       4-5       >999       240         BCDL       10.0       Rep Stress Incr       YES       WB       0.00       4       n/a       n/a         BCDL       10.0       Rep Stress Incr       YES       Standard       Wind(LL)       0.01       4-5       >999       240       Weight: 16 ib       FT = 10%         LUMBER       LOAD CASE(S)       Standard       Standard       Standard       Standard       Standard       Standard         TOP CHORD       Structural wood sheathing directly applied or 10-0-0 combracing.       Standard       Standard       Standard       Standard         FOR CHORD       4-9 Mchanical, 5=073.0       Max Horiz       5=2
TCDL       10.0       Lumber DOL       1.15       BC       0.19       Vert(CT)       -0.05       4-5       >999       240         BCLL       0.0*       Cod       Rep Stress Incr       YES       WB       0.00       Horz(CT)       0.00       4       n/a       n/a         BCDL       0.0*       Cod       IVES       Matrix-R       Wind(LL)       0.01       4-5       >999       240         LUMBER       LOAD CASE(S)       Standard       Matrix-R       Wind(LL)       0.01       4-5       >999       240         TOP CHORD       2x4 SPF No.2       EXASPF No
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)         0.01         4-5         >999         240         Weight: 16 lb         FT = 10%           LUMBER         LOAD CASE(S)         Standard           TOP CHORD         2x4 SPF No.2         BOTCHORD         2x4 SPF No.2         BRACING           TOP CHORD         Structural wood sheathing directly applied or 5-1-4 oc purlins, except end verticals.         BOT CHORD         Structural wood sheathing directly applied or 10-0-0 oc bracing.           REACTIONS         (size)         4= Mechanical, 5=0-3.8 Max Horiz 5=120 (LC 5) Max Upit 4=-52 (LC 8), 5=-53 (LC 8) Max Grav         Julan         GARCIA           Max Upit 4=-52 (LC 8), 5=-53 (LC 1)         FORCES         (b) - Maximum Compression/Maximum Tension         GARCIA         JULAN         GARCIA           TOP CHORD         1/2=0/27, 2-3=-119/30, 3-4=-151/71, 2-52-260/92         BOT CHORD 1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-52-260/92         BOT CHORD 4-5=-33/31         NUMBER         E-2000162101         NUMBER         E-2000162101         NUMBER         E-2000162101         NUMBER         E-2000162101         NUMBER         E-2000162101         NU
BCDL         10.0         Code         IRC2018/TPI2014         Matrix-R         Wind(LL)         0.01         4-5         >999         240         Weight: 16 lb         FT = 10%           LUMBER         LOAD CASE(S)         Standard         Standard         Standard         FT = 10%         FT = 10%         FT = 10%           LUMBER         LOAD CASE(S)         Standard         Standard         FT = 10%         FT = 10%           Store ChORD         2x4 SPF No.2         BCACINOS         Standard         FT = 10%         FT = 10%           BRACING         TOP CHORD         Structural wood sheathing directly applied or 5-1-4 oc purlins, except end verticals.         Standard         FT = 10%         FT = 10%           BOT CHORD         Rigid ceiling directly applied or 10-0-0 oc bracing.         FT = 10%         FT = 10%         FT = 10%           REACTIONS         (size)         4= Mechanical, 5=0-3-8 Max Horiz 5=120 (LC 5) Max Grav 4=211 (LC 1), 5=297 (LC 1)         FT = 10%         FT = 10%         FT = 10%           FORCES         (b) - Maximum Compression/Maximum Tension         FT = 10%         JUAN         GARCIA           Top CHORD         1-2e0/27, 2-3119/30, 3-4=-151/71, 2-5=-260/92         FT = 10%         FT = 2000162101         FT = 2000162101         FT = 2000162101         FT = 2000162101         FT =
LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 5-1-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 4= Mechanical, 5=0-3-8 Max Horiz 5=120 (LC 5) Max Uplift 4=-52 (LC 8), 5=-53 (LC 8) Max Grav 4=211 (LC 1), 5=297 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=027, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92 BOT CHORD 4-5=-33/31 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; h=25f; Cat.
TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 5-2:2x4 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 5-1-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 4= Mechanical, 5=0-3-8 Max Horiz 5=120 (LC 5) Max Uplit 4=-52 (LC 8), 5=-53 (LC 8) Max Uplit 4=-52 (LC 8), 5=-53 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92 BOT CHORD 4-5=-33/31 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; h=25f; Cat.
BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 "Except" 5-2:2x4 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 5-1-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 4= Mechanical, 5=0-3-8 Max Horiz 5=120 (LC 5) Max Uplift 4=-52 (LC 8), 5=-53 (LC 8) Max Grav 4=211 (LC 1), 5=297 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-200/92 BOT CHORD 4-5=-33/31 NUMBER 0 E-2000162101 Viadd=91mph; TCDL=6.0psf; BCDL=6.0psf; BCDL=6.0psf
WEBS 2x3 SPF No.2 *Except* 5-2:2x4 SPF No.2 BRACING TOP CHORD Structural wood sheathing directly applied or 5-1-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0 oc bracing. REACTIONS (size) 4 = Mechanical, 5=0-3-8 Max Horiz 5=120 (LC 5) Max Uplift 4=-52 (LC 8), 5=-53 (LC 8) Max Grav 4=211 (LC 1), 5=297 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92 BOT CHORD 4-5=-33/31 NUMBER 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mpb; TCDL=6.0psf; BCDL=6.0psf; h=25f; Cat.
BRACING TOP CHORD Structural wood sheathing directly applied or 5-1-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0 oc bracing. REACTIONS (size) 4= Mechanical, 5=0-3-8 Max Horiz 5=120 (LC 5) Max Uplit 4=-52 (LC 8), 5=-53 (LC 8) Max Grav 4=211 (LC 1), 5=297 (LC 1) FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92 BOT CHORD 4-5=-33/31 NUMBER 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
TOP CHORD Structural wood sheathing directly applied or 5-1-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. <b>REACTIONS</b> (size) 4= Mechanical, 5=0-3-8 Max Horiz 5=120 (LC 5) Max Uplift 4=-52 (LC 8), 5=-53 (LC 8) Max Grav 4=211 (LC 1), 5=297 (LC 1) <b>FORCES</b> (b) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92 BOT CHORD 4-5=-33/31 <b>NUMBER</b> E-2000162101 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
<ul> <li>For CHORD Bigid ceiling directly applied or 10-0-0 oc bracing.</li> <li>REACTIONS (size) 4= Mechanical, 5=0-3-8 Max Horiz 5=120 (LC 5) Max Uplift 4=-52 (LC 8), 5=-53 (LC 8) Max Grav 4=211 (LC 1), 5=297 (LC 1)</li> <li>FORCES ((b) - Maximum Compression/Maximum Tension</li> <li>TOP CHORD 1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92</li> <li>BOT CHORD 4-5=-33/31</li> <li>NOTES</li> <li>1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; b=25f; Cat.</li> </ul>
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 4= Mechanical, 5=0-3-8 Max Horiz 5=120 (LC 5) Max Uplift 4=-52 (LC 8), 5=-53 (LC 8) Max Grav 4=211 (LC 1), 5=297 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92 BOT CHORD 4-5=-33/31 NUMBER E-2000162101 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
bracing.         REACTIONS (size)       4= Mechanical, 5=0-3-8 Max Horiz 5=120 (LC 5) Max Uplift 4=-52 (LC 8), 5=-53 (LC 8) Max Grav 4=211 (LC 1), 5=297 (LC 1)         FORCES       (lb) - Maximum Compression/Maximum Tension         TOP CHORD       1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92         BOT CHORD       4-5=-33/31         NOTES       1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
REACTIONS       (size)       4= Mechanical, 5=0-3-8 Max Horiz       5=120 (LC 5) Max Uplift         Max Uplift       4=-52 (LC 8), 5=-53 (LC 8) Max Grav       4=211 (LC 1), 5=297 (LC 1)         FORCES       (lb) - Maximum Compression/Maximum Tension       JUAN         TOP CHORD       1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92       GARCIA         BOT CHORD       4-5=-33/31       NUMBER E-2000162101         NOTES       1)       Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
Max Horiz 5=120 (LC 5) Max Uplift 4=-52 (LC 8), 5=-53 (LC 8) Max Grav 4=211 (LC 1), 5=297 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92 BOT CHORD 4-5=-33/31 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
Max Uplift 4=-52 (LC 8), 5=-53 (LC 8) Max Grav 4=211 (LC 1), 5=297 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92 BOT CHORD 4-5=-33/31 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
Max Grav       4=211 (LC 1), 5=297 (LC 1)         FORCES       (lb) - Maximum Compression/Maximum Tension         TOP CHORD       1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92         BOT CHORD       4-5=-33/31         NOTES       Image: Comparison of the second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
FORCES       (lb) - Maximum Compression/Maximum Tension       GARCIA         TOP CHORD       1-2-0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92       NUMBER         BOT CHORD       4-5=-33/31       E-2000162101         NOTES       1)       Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.       Social Content of the second gust (Astronomy Content of the second gust)
Tension TOP CHORD 1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92 BOT CHORD 4-5=-33/31 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
TOP CHORD       1-2=0/27, 2-3=-119/30, 3-4=-151/71, 2-5=-260/92         BOT CHORD       4-5=-33/31         NOTES         1)       Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
2-5=-260/92 BOT CHORD 4-5=-33/31 NOTES 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
NOTES         E-2000162101           1) Wind: ASCE 7-16; Vult=115mph (3-second gust)         Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
NOTES         1) Wind: ASCE 7-16; Vult=115mph (3-second gust)         Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
vasa=9  fmpn;  fGDL=0.0psi;  BGDL=0.0psi;  n=25i;  Gal.
III Eve C: Engloced: MW/EBS (any globa) outgrier zonay
in, Exp C, Enclosed, MWFRS (eliverol/e) exterior zone,
right exposed   umber DOI = 1 60 ndist artin DOI = 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
4) All bearings are assumed to be SPF No.2.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 52 ib uplift at joint
4 and 53 to upplit at joint 5.
() This truss is designed in accordance with the 2018
R802 10 2 and referenced standard ANSI/TP1 1

## March 7,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





#### Plate Offsets (X, Y): [3:0-0-11,Edge], [7:0-4-12,0-1-12], [15:0-8-0,0-4-12]

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	0.73	Vert(LL)	-0.44	14	>790	360	MT20	197/144
TCDL		10.0	Lumber DOL	1.15		BC	0.80	Vert(CT)	-0.80	14	>436	240	M18AHS	142/136
BCLL		0.0*	Rep Stress Incr	NO		WB	0.77	Horz(CT)	0.29	11	n/a	n/a		
BCDL		10.0	Code	IRC201	8/TPI2014	Matrix-S		Wind(LL)	0.38	14	>919	240	Weight: 343 lb	FT = 10%
LUMBER		=		1)	2-ply truss to	be connected tog	jether wi	th 10d		13) Gra	phical p	urlin re	epresentation doe	s not depict the size
TOP CHORD	2x6 SPF N 2.0E	lo.2 *Exce	pt* 4-1:2x8 SP 2400	F	(0.131 x3") n Top chords c	connected as follows:	ws: 2x6	2 rows		or t bot	tom choi	rd.	of the purlin along	) the top and/or
BOT CHORD	2x6 SPF N 2.0E, 6-14	lo.2 *Exce :2x4 SPF 2	pt* 3-15:2x6 SP 240 2100F 1.8E	0F	staggered at rows stagger	0-9-0 oc, 2x4 - 1 i red at 0-9-0 oc.	row at 0-	9-0 oc, 2x8 -	2	14) Use Lef	e Simpso t Hand F	on Stro lip) or	ong-Tie LTHJA26 equivalent at 5-1	(LTHJA26 on 2 ply, 1-10 from the left end
WEBS	2x4 SPF N	lo.2 *Exce	pt* 18-3:2x6 SPF No	.2	Bottom chore	ds connected as fo	ollows: 2	x6 - 2 rows		to c	onnect t	russ(e	s) to front face of	bottom chord.
BRACING					staggered at	0-9-0 oc, 2x4 - 1 i	row at 0-	9-0 oc.		15) Fill	all nail h	oles v	here hanger is in	contact with lumber.
TOP CHORD	Structural	wood shea	athing directly applie	d or	Web connec	ted as follows: 2x6	6 - 2 row	s staggered a	at	16) "NA	ALED" ir	ndicate	s 3-10d (0.148"x	3") or 3-12d
	6-0-0 oc pi	urlins, exc	cept end verticals, ar	nd 🔹	0-9-0 oc, 2x4	1 - 1 row at 0-9-0 c	ю.			(0.1	48"x3.2	5") toe	⊦nails per NDS gu	uidlines.
	2-0-0 oc pi	urlins (3-6	-1 max.): 4-10.	2)	All loads are	considered equal	y applie	d to all plies,		LOAD	CASE(S	) Sta	ndard	
BOT CHORD	Rigid ceilir	ng directly	applied or 10-0-0 oc		CASE(S) set	ed as front (F) or b	ack (B)	race in the LC	JAD	1) De	ead + Ro	of Liv	e (balanced): Lur	nber Increase=1.15,
	bracing.				provided to d	listribute only load	s noted	as (F) or (B)		PI	ate Incre	ase='	.15	
REACTIONS	(size)	2=0-3-8, 1	1= Mechanical		unless other	wise indicated.	onotou	uo (i ) oi (b),		U	Mort 4	Jaus (	D/IL)	20 11 14 20
	Max Horiz	2=121 (LC	C 5)	3)	Unbalanced	roof live loads hav	e been	considered fo	r		1_470	10=-70	), 2-16=-20, 3-15=	=-20, 11-14=-20,
	Max Uplift	2=-463 (L	C 4), 11=-520 (LC 5)	,	this design.					C	oncentra	ted I c	ads (lb)	
	Max Grav	2=2536 (L	.C 1), 11=2491 (LC 1	) 4)	Wind: ASCE	7-16; Vult=115mp	oh (3-seo	cond gust)			Vert 6=	-110 (	E) 17=-440 (E) 5	5=-102 (E) 16=-65 (E)
FORCES	(lb) - Maxir	mum Com	pression/Maximum		Vasd=91mph	n; TCDL=6.0psf; B	CDL=6.	0psf; h=25ft; (	Cat.		15=-51	(F), 13	B=-51 (F), 7=-110	(F), 4=-102 (F),
	I ension	14007 F C	0074/4007		II; Exp C; En	closed; MWFRS (	envelop	e) exterior zor	ne;		19=-102	2 (F), 2	20=-102 (F), 21=-	110 (F), 22=-110 (F),
TOP CHORD	4-5=-9974	/1907, 5-0 4/2569 7-	=-9974/1907, 93940/844		cantilever lef	t and right expose	d; end \	ertical left an	id 60		23=-110	) (F), 2	24=-110 (F), 25=-1	110 (F), 26=-110 (F),
	9-10=-394	0/844 10-	11=-2382/550 1-2=(	)/6 E)	Brovido ador	u, Lumber DOLET.	orovont	votor ponding	00		27=-65	(F), 28	8=-65 (F), 29=-51	(F), 30=-51 (F),
	2-3=-1345	/238. 3-4=	-7804/1500	6)		MT20 plates unle	es other	wise indicate	ч. Ч		31=-51	(F), 32	?=-51 (F), 33=-51	(F), 34=-51 (F)
BOT CHORD	2-18=0/0, 3	3-17=-151	5/7508,	7)	This truss ha	is been designed f	or a 10	) psf bottom	u.					
	16-17=-15	16/7564, 1	5-16=-2705/13024,	• • •	chord live loa	ad nonconcurrent	with any	other live loa	ds.					
	14-15=0/2	10, 6-15=-	66/994	8)	* This truss h	nas been designed	l for a liv	e load of 20.0	Opsf					
	13-14=-22	7/1165, 12	418-1339/6384,		on the bottor	n chord in all area	s where	a rectangle					MAULANC	ARC
	11-12=-3/		10/004		3-06-00 tall b	oy 2-00-00 wide wi	ill fit betw	veen the botto	om				Nº JOINTE	NO
WEBS	3-18=-80/2	212, 4-17= 0/742 5 1	-18/631;		chord and ar	ny other members.		_					UCE	ED
	1-16-548	/2701 7-1	5-1310/6311	9)	All bearings	are assumed to be	SPF N	5.2.						1 2
	10-12=-92	2/449AR	434-1177/430	10	) Refer to gird	er(s) for truss to tr	uss conr	nections.	~			-	1	
	13-15=-11	49/5390, 7	-12=-2787/563,		bearing plate	canable of withst	anding F	20 lb unlift at	ioint			-	: 169	952 : =
	9-12=-570	/304	:m=		11 and 463 l	b uplift at joint 2	anung		John			-	DI	
NOTES	= 1:	NUME	BER	12	) This truss is	designed in accord	dance w	ith the 2018					-H.	4. 145
	-0.1	E-20001	62101 :4		International	Residential Code	sections	R502.11.1 a	ind				- A KAN	ISAS SAS
	1.		. 7.		R802.10.2 a	nd referenced star	ndard AN	ISI/TPI 1.					1.50	NG'N
	1.5	0											PON	ALE
	11	ONA	LEIN										100	IIIII.
		200	IIII.										Marc	ch 7,2024



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							RELEAS	E FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Lot 116 MN	AS NOT	ED FOR PLAN REVIEW
240612	E2	Half Hip		1	1	Job Reference (option	ali LEE'S	SUMMIT, MISSOURI
Wheeler Lumber, Wave	rly, KS - 66871,	•	Run: 8.73 S Fe ID:OeXX5Apq0	eb 22 2024 Print: K368rc5sEWM0	8.730 S Feb 2 QyKyAW-RfC	22 2024 MiTek Industries, Ind ?PsB70Hq3NSgPqnL8w3uIT	: Thu Mar (7) 1/6:79 Xt GKWrCDer7J42JC	02/2024
	-0-10-82-0-12 7- 	11-4 10-8	<u>14-0-4</u> 6-1-0		<u>21-6-12</u> 7-6-8	ł	29-5-0 7-10-4	
- 0		6x12=		2x4 II		3x6= 3	x6=	6x6=
12 14 14 14 14 14 14 14 14 14 14 14 14 14	5 <sup>12</sup>	4 += 4						
		13	11	12				
_ 0	14 = 4x8 = 2x4  II	274 1	6x12=	3x6 II		10 5x12=		О 4x5 ш
	3х6 и							
	2-3-8 5	5-9-0	5-10-8		<u>21-6-12</u> 7-7-12	ł	<u>29-5-0</u> 7-10-4	

#### Scale = 1:58.1

Plate Offsets (	(X, Y): [3:0-6-0,Edge],	[3:0-1-14,0-1-15], [4	4:0-6-0,0-2	-10], [6:0-2-8,0	-1-8], [9:Edge,0-	2-8]								_
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-S	0.69 0.91 0.80	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.32 -0.60 0.30 0.26	(loc) 12-13 12-13 9 12-13	l/defl >999 >585 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 124 lb	<b>GRIP</b> 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD	2x4 SPF 2100F 1.8E 2400F 2.0E 2x4 SPF No.2 *Exce 2x3 SPF No.2 *Exce Structural wood shea 5-0-4 oc purlins, exc 2-0-0 oc purlins (3-7 Rigid ceiling directly bracing. (size) 2=0-3-8, 9 Max Horiz 2=163 (LC Max Uplift 2=-198 (L Max Grav 2=1385 (L (lb) - Maximum Com Tension 1-2=0/0, 2-3=-702/86 4-5=-3580/651, 5-6= 6-8=-2147/417, 8-9=	E *Except* 1-4:2x8 S pt* 5-11:2x3 SPF N pt* 14-3:2x6 SPF N athing directly applie cept end verticals, a -11 max.): 4-8. applied or 8-0-9 oc De Mechanical C 5) C 4), 9=-241 (LC 5) C 4), 9=-241 (LC 5) C 1), 9=1311 (LC 1) pression/Maximum 6, 3-4=-3040/462, 3548/651, 1241/276	4) SP o.2 5) ed or 7) ind 8) 9)	* This truss h on the bottor 3-06-00 tall b chord and ar All bearings a Refer to gird Provide mec bearing plate 9 and 198 lb This truss is International R802.10.2 ar Graphical pu or the orientz bottom chorc DAD CASE(S)	has been designe in chord in all are by 2-00-00 wide v by other members are assumed to b rer(s) for truss to the hanical connections a capable of withs uplift at joint 2. designed in accor Residential Code and referenced star rlin representation ation of the purlin d. Standard	ed for a liv as where will fit betw s. De SPF No truss conn- truss conn- no (by oth- standing 2 ordance wi e sections andard AN on does no along the	e load of 20.1 a rectangle veen the bott 0.2. ers) of truss t 41 lb uplift al th the 2018 R502.11.1 a ISI/TPI 1. ot depict the s top and/or	Opsf om to t joint and size				JUA GARO NUME C-20001	N CIA	
BOT CHORD	2-14=0/0, 3-13=-538 11-12=0/130, 5-12=- 9-10=-48/38 3-14=0/53, 4-13=0/2	2/2876, 12-13=-533/ 449/194, 10-11=-24 28, 4-12=-204/769,	2876, 4/191,									III ONA	LENIN	
NOTES 1) Wind: AS( Vasd=91n II; Exp C; cantilever right expo 2) Provide at 3) This truss chord live	10-12=-401/1973, 6- 6-10=-1108/351, 8-1 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 dequate drainage to pri- has been designed for load nonconcurrent wi	12=-298/1489, 0=-427/2342 (3-second gust) DL=6.0psf; h=25ft; ( ivelope) exterior zor ; end vertical left an 0 plate grip DOL=1. event water ponding • a 10.0 psf bottom th any other live loa	Cat. he; d 60 g. ds.								CHINNE.	PROPROSION	AROLA NSEO 952 ALENO	

March 7,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 buckling of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





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Scale = 1:58.1
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Plate Offsets	(X, Y): [3:0-4-4,0-1-2	], [3:0-1-1,0-8-8], [4:0	0-6-0,0-2-10	)], [6:0-2-8,0-1	-8], [8:Edge,0-1-8	8]							
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	0.95 0.92 0.72	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.28 -0.60 0.32	(loc) 3-12 3-12 8	l/defl >999 >584 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 197/144
BCDL	10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind(LL)	0.22	3-12	>999	240	Weight: 131 lb	FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x8 SP 2400F 2.0E 2100F 1.8E 2x4 SPF No.2 *Exc 2x3 SPF No.2 *Exc Structural wood sh 4-10-14 oc purlins, 2-0-0 oc purlins (4-	E *Except* 4-7:2x4 SI eept* 5-10:2x3 SPF N eept* 13-3:2x6 SPF N eathing directly appli except end verticals 3-0 max.): 4-7.	4) PF lo.2 5) 6) ed or 7) s, and 8)	* This truss h on the bottor 3-06-00 tall h chord and ar All bearings Refer to gird Provide mec bearing plate 8 and 181 lb This truss is	has been designe n chord in all are by 2-00-00 wide v y other members are assumed to b er(s) for truss to the hanical connections uplift at joint 2. designed in according to be the second second second designed in according to be the second second second to be the second second second second to be the second sec	ed for a live as where will fit betw s. De SPF No truss conn on (by othe standing 2 ordance wi	e load of 20. a rectangle een the bott 0.2. ections. ers) of truss 38 lb uplift a th the 2018	0psf tom to ti joint				NY OF A	
REACTIONS	Rigid ceiling direct bracing. (size) 2=0-3-8 Max Horiz 2=199 (I Max Uplift 2=-181 ( Max Grav 2=1385	8= Mechanical .C 7) LC 4), 8=-238 (LC 5) (LC 1), 8=1311 (LC 1	9)	International R802.10.2 a Graphical pu or the orienta bottom chore	Residential Code nd referenced sta Irlin representation ation of the purlin d.	e sections andard AN on does no along the	R502.11.1 a SI/TPI 1. It depict the top and/or	and size			*****	S JUA GARG	N DIA
FORCES	(lb) - Maximum Co	mpression/Maximum		JAD CASE(S)	Standard						En		
TOP CHORD	1 ension 1-2=0/0, 2-3=-702/ 4-5=-2713/486, 5-6 6-7=-1759/348, 7-8	71, 3-4=-2701/375, 5=-2709/489, 3=-1243/272									in in	E-20001	62101
BOT CHORD	2-13=0/0, 3-12=-46 10-11=0/129, 5-11 8-9=-61/45	61/2504, 11-12=-457/ =-359/164, 9-10=-2/1	/2506, 67,									S/ONA	LENIN
WEBS	3-13=0/53, 4-11=-7 6-11=-206/1050, 6 7-9=-361/2012, 4-1	26/273, 9-11=-354/1 ·9=-1062/344, 2=0/286	606,									IN AN G	ARC
NOTES 1) Wind: AS Vasd=911 II; Exp C; cantilever right expo 2) Provide a 3) This truss chord live	CE 7-16; Vult=115mp mph; TCDL=6.0psf; B Enclosed; MWFRS ( <i>i</i> left and right expose osed; Lumber DOL=1. Idequate drainage to p has been designed f load nonconcurrent v	h (3-second gust) CDL=6.0psf; h=25ft; envelope) exterior zoi d ; end vertical left ar. 60 plate grip DOL=1. revent water ponding or a 10.0 psf bottom with any other live loa	Cat. ne; id 60 g. ids.								CHIMAN,	PROCESSION	NSEO 952
												Marc	h 7,2024







Scale =	1:56.6
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TOP CHORD

BOT CHORD

REACTIONS

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

this design

1)

2)

3)

4)

bracing

Tension

7-8=-1229/179

8-9=-76/408

(size)

Structural wood sheathing directly applied or

3-1-10 oc purlins, except end verticals, and

8= Mechanical, 14=0-3-8

Rigid ceiling directly applied or 10-0-0 oc

Max Uplift 8=-144 (LC 9), 14=-170 (LC 8)

Max Grav 8=1302 (LC 1), 14=1382 (LC 1)

(lb) - Maximum Compression/Maximum

1-2=0/30, 2-3=-2290/239, 3-4=-1909/231,

3-13=-43/132, 3-12=-419/167, 4-12=-24/352, 4-10=-177/179, 5-10=0/356, 6-10=-437/173, 6-9=-61/125, 2-13=-71/1498, 7-9=-112/1645

4-5=-1694/235, 5-6=-1913/232, 6-7=-2299/241, 2-14=-1310/205,

Unbalanced roof live loads have been considered for

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.

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) exterior zone;

13-14=-197/538, 12-13=-226/2029, 10-12=-97/1693. 9-10=-168/2046.

2-0-0 oc purlins (3-8-8 max.): 4-5.

Max Horiz 14=80 (LC 12)

Plate Offsets ()	X, Y): [7:0-3-4,0-2-4], [9:0	0-2-8,0-1-8], [13:0-	2-8,0-1-8]	, [14:0-3-0,0-2	2-4]									
Loading	(psf) S	pacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0 P	late Grip DOL	1.15		тс	0.59	Vert(LL)	-0.12	9-10	>999	360	MT20	197/144	
TCDL	10.0 Lu	umber DOL	1.15		BC	0.55	Vert(CT)	-0.22	10-12	>999	240			
BCLL	0.0* R	ep Stress Incr	YES		WB	0.57	Horz(CT)	0.06	8	n/a	n/a			
BCDL	10.0 C	ode	IRC2018	/TPI2014	Matrix-S		Wind(LL)	0.07	9-10	>999	240	Weight: 111 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Except* No.2	14-2,8-7:2x6 SPF	5) 6)	* This truss h on the botton 3-06-00 tall b chord and an All bearings a	has been design n chord in all a by 2-00-00 wide by other member are assumed to	ned for a live reas where e will fit betw ers. o be SPF No	e load of 20.0 a rectangle reen the botte 0.2 .	Opsf om						
BRACING			7)	Refer to girde	er(s) for truss to	o truss conn	ections.							

- Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 170 lb uplift at joint 14 and 144 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 9) 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.

LOAD CASE(S) Standard



11111

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MIS

ONAL ENGINE

### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 trust 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**, and **DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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#### Scale = 1:56.7

Plate Offsets	(X, Y): [7:0-3-4,0-2-4], [	[9:0-2-8,0-1-8], [13:0	)-2-8,0-1-	8], [14:0-3-0,0-:	2-4]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.85 0.63 1.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.12 -0.27 0.06 0.08	(loc) 12-13 12-13 8 12-13	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 115 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Excep No.2 Structural wood shea except end verticals, (4-4-0 max.): 4-5. Rigid ceiling directly a bracing. 1 Row at midpt 6 (size) 8= Mechar Max Horiz 14=94 (LC Max Uplift 8=-161 (LC Max Grav 8=1302 (LC	ot* 14-2,8-7:2x6 SPF thing directly applied and 2-0-0 oc purlins applied or 10-0-0 oc 6-11 hical, 14=0-3-8 8) 2 9), 14=-186 (LC 8) C 1), 14=1382 (LC 1	4) = 5) d, 6) 5 8) 9) 9) 1(	<ul> <li>This truss ha chord live loa</li> <li>* This truss h on the bottor</li> <li>3-06-00 tall b chord and ar</li> <li>All bearings</li> <li>Refer to gird</li> <li>Provide mec bearing plate</li> <li>14 and 161 l</li> <li>This truss is International R802.10.2 au</li> <li>Graphical pu or the orienta bottom chord</li> </ul>	s been designed ad nonconcurrent has been designe n chord in all are: by 2-00-00 wide yo other members are assumed to b er(s) for truss to t hanical connectic e capable of withs o uplift at joint 8. designed in acco Residential Code dr deferenced sta rlin representatio tion of the purlin l.	for a 10.0 with any d for a liv as where vill fit betv s. ee SPF No russ conr no (by oth standing 1 rdance w e sections undard AN n does no along the	D psf bottom other live loa e load of 20.0 a rectangle veen the botto 0.2. ers) of truss t 86 lb uplift at ith the 2018 5 R502.11.1 a ISI/TPI 1. ot depict the s e top and/or	ds. Dpsf om joint nd				JUA GAR	MISSOUR CIA
FORCES TOP CHORD	(lb) - Maximum Comp Tension 1-2=0/30, 2-3=-2329/ 4-5=-1532/233, 5-6=- 6-7=-2335/283, 2-14= 7-8=-1233/191 13-14187/454, 12-1	oression/Maximum 281, 3-4=-1764/206 1767/207, 1315/218, 13–-284/2074	Li	OAD CASE(S)	Standard						in in	E-20001	62101
WEBS	11-12=-88/1530, 9-11 8-9=-67/359 3-13=-30/179, 3-12=- 4-11=-231/242, 5-11= 6-9=-44/171, 2-13=-9	l=-210/2087, 637/214, 4-12=-35/3 =-56/405, 6-11=-649 8/1628, 7-9=-144/1	345, )/218, 736									UNICE	SARCIA NSE
NOTES													0
<ol> <li>Unbalanc this desig</li> <li>Wind: ASG Vasd=91r II; Exp C; cantilever right expo</li> <li>Provide ac</li> </ol>	ed roof live loads have b n. CE 7-16; Vult=115mph ( mph; TCDL=6.0psf; BCC Enclosed; MWFRS (env left and right exposed ; ssed; Lumber DOL=1.60 dequate drainage to pre	eeen considered for (3-second gust) DL=6.0psf; h=25ft; C velope) exterior zone end vertical left and plate grip DOL=1.6 vvent water ponding.	at. e; I 0								THINK.	PROCESSION	ALENGIN

March 7,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 toulsable 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, and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)









													RELEASE		TION
Job		Truss		Truss Ty	/pe		Qt	/	Ply	Lot 116	6 MN		AS NOTE	D FOR PLAN RE	VIEW
240612		E7		Roof S	pecial		1		1	Job Re	eference (c	otional	LEE'S	164102258 SUMMIT, MISSOL	JRI
Wheeler Lumber	r, Waverly, KS -	66871,				Run: 8.73 S Feb 2	22 2024	Print: 8.	730 S Feb 2	2 2024 Mi	Tek Industri	es, Inc. T	hu Mar 🕜 1,36:41	$12/20^{\circ}$	94
						ID:ZVAGr6k4QUI	/Qw9xW	zPyn9ył	<yac-rfc?p< td=""><td>'sB70Hq3l</td><td>NSgPqnL8w</td><td>3ulTXbG</td><td>KWrCDol7J4zJO?f</td><td></td><td></td></yac-rfc?p<>	'sB70Hq3l	NSgPqnL8w	3ulTXbG	KWrCDol7J4zJO?f		
		-0-10-8	8-11	-7		14-8-8		18-3	3-12	22	-10-5		29-5-0		
		0-10-8	8-11	-7		5-9-1	4.4	3-1	7-4	4	-6-9		6-6-11		
							420	• 11							
ΤT	Γ					/			6x6	) <b>=</b>					
ဝု	ဂု				_1 <u>2</u> 3x4 .	• //				5					
6-11	3-11				51 3					$\sim$		4x8 <b>≈</b>			
11-9								$\swarrow$		11		6			
- فُ	-						13	12		$\sqrt[n]{}$			$\sim$		
0-0	0-0	2					5x1	2=	2x4 u	0-0				7	
, ч	-0 <sup>3</sup>	1	¥							က်					-
	∟ 5⊤	17			16		15	<u> </u>	4 10 🖺			9		8 ú 0	L
		M18/	AHS 8x12 🝃		5x12:		2x4	u	2x4	4 u		6x12=		8x8≈	
								2x4 ı	I						
							45	MT1	8HS 12x20	=					
		L	8-11	-7	I	14-8-8	15- 14-9-	-11-8 12	18-2-8	22-	10-5	1	29-5-0		
		I	8-11	-7	I	5-9-1	0-1- 1·	4 1-12	2-3-0	4-	7-13	I	6-6-11	ļ	
Scale = 1:59.1 Plate Offsets (2	X, Y): [8:0-3	-4,0-2-4],	[17:0-5-0,0-2-0]				-								
Looding	, , ,	(nof)	Specing	200		CSI		DEEL		in (le		L /d			
TCLL (roof)		(psi) 25.0	Plate Grip DOL	2-0-0 1.15		TC	0.98	Vert(l	- _L) -0	.34	10 >999	360	MT20	197/144	
TCDL BCLL		10.0 0.0*	Lumber DOL Rep Stress Incr	1.15 YES		BC WB	0.60 0.91	Vert(0 Horz(	CT) -0 CT) 0	.61 .34	10 >572 8 n/a	240 n/a	MT18HS M18AHS	197/144 142/136	
BCDL		10.0	Code	IRC2018	3/TPI2014	Matrix-S		Wind	(LL) 0	.21	10 >999	240	Weight: 124 lb	FT = 10%	
		- 0		2)	Wind: ASCE	7-16; Vult=115mpl	וס: - וס:	cond gu	ist) -25ft: Cot						
BOT CHORD	2x4 SPF No 2x4 SPF No	0.2 0.2 *Exce	pt* 14-12,5-10:2x3 S	PF	II; Exp C; En	closed; MWFRS (e	nvelop	e) exter	ior zone;						
WEBS	No.2, 13-11 2x3 SPF No	I:2x4 SPF 0.2 *Exce	F 2100F 1.8E pt* 17-2,8-7:2x6 SP		right expose	d; Lumber DOL=1.6	i ; end v 60 plate	grip D	OL=1.60						
BRACING	2400F 2.0E			3) 4)	All plates are This truss ha	e MT20 plates unles is been designed fo	s othei or a 10.	wise in ) psf bo	dicated.						
TOP CHORD	Structural v	wood she	athing directly applie	d, 5)	chord live loa	ad nonconcurrent w	ith any	other li	ive loads.					un.	
BOT CHORD	except end Rigid ceilin	g directly	applied or 9-8-5 oc	3)	on the bottor	n chord in all areas	where	a recta	ingle				NE OF !	MISS	
JOINTS	bracing. 1 Brace at	Jt(s): 13			chord and ar	by 2-00-00 wide will by other members.	ni beiv	veen in	e bollom			1	A	- 00	
REACTIONS	(size) 8	B= Mecha	nical, 17=0-3-8	6) 7)	All bearings Refer to gird	are assumed to be er(s) for truss to tru	SPF N ss conr	o.2 . nections	s.			E	S. JUA	IN 2	5
	Max Uplift 8	3=-166 (L	C 9), 17=-192 (LC 8)	8)	Provide med	hanical connection	(by oth nding 1	ers) of 92 lb u	truss to Inlift at ioin	ıt		=*	GAR		E
FORCES	Max Grav 8 (Ib) - Maxin	3=1302 (L num Com	.C 1), 17=1382 (LC 1 pression/Maximum	)	17 and 166 l	b uplift at joint 8.		ith tho	2019			= 7			-
	Tension		1220/200 1 2 0/2	9) 0	International	Residential Code s	ections	R502.	11.1 and				C. E-20001	62101	5
TOP CHORD	2-3=-2248/	268, 3-4=	-2849/287,	u, LO	R802.10.2 a	nd referenced stand Standard	dard AN	ISI/TPI	1.			1	1		
	4-5=-2847/ 6-7=-2296/	308, 5-6= 282	-4787/417,										I,SONI	LENIN	
BOT CHORD	16-17=-354 12-14=-11/	4/895, 15- 45, 12-13	·16=-2/28, 14-15=-3/3 =-229/4317.	22,										III).	
	11-12=-231	1/4343, 10	0-3/40 8 $0-87/41$	7									annin (	AD	
WEBS	3-16=-899/	216, 3-13	6=0/614, 13-15=0/110	),									IN JUAN	NOR	
	4-13=-139/ 9-11=-245/	1840, 5-1 2435, 6-1	3=-2043/279, 1=-132/2305,										UCE	ED	1
	6-9=-1448/ 7-9=-117/1	230, 2-16 633. 13-1	i=-3/1068, 6=-276/2169									3	1 10	0F0	Ξ
NOTES												Ξ	16	952	Ξ
<ol> <li>Unbalance this design</li> </ol>	ea roof live lo: 1.	ads have	been considered for									-	B	M. 1#	Ξ
5													- Color	ISAS GR	
													O/ON	ALENI	
													Marc	ch 7,2024	



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Scale = 1:56.1

Plate Offsets (	(X, Y): [9:0-3-0,0-2-4],	[10:0-2-8,0-1-8], [14	:0-2-8,0-1-	8], [15:0-3-0,0	-2-4]								
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	<b>CSI</b> TC BC WB Matrix-S	0.85 0.63 1.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.12 -0.27 0.06 0.08	(loc) 13-14 13-14 9 13-14	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 116 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood shere except end verticals, (4-3-13 max.): 4-5. Rigid ceiling directly bracino.	pt* 15-2,9-7:2x6 SPI athing directly applie , and 2-0-0 oc purlins applied or 10-0-0 oc	4) 5) F d, 6) 5 7) ; 8)	This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an All bearings a Provide mecl bearing plate 15 and 186 ll This truss is o	s been designed d nonconcurrent as been designe n chord in all are: y 2-00-00 wide v y other members are assumed to b nanical connecti capable of withs o uplift at joint 9. designed in acco	l for a 10.0 t with any ed for a liv as where will fit betw s. be SPF No on (by oth standing 1 ordance w	0 psf bottom other live loa e load of 20.1 a rectangle veen the bott 0.2. 86 lb uplift at ith the 2018	ads. Opsf om to t joint				UNITE OF	MISSO
REACTIONS	(size) 9=0-3-8, 1 Max Horiz 15=86 (LC Max Uplift 9=-186 (L Max Grav 9=1380 (L	15=0-3-8 C 8) C 9), 15=-186 (LC 8) C 1), 15=1380 (LC 7)	) 9) 1)	International R802.10.2 ar Graphical pu or the orienta bottom chore	Residential Code nd referenced sta rlin representatio tion of the purlin	e sections andard AN on does no along the	R502.11.1 a ISI/TPI 1. ISI depict the s top and/or	and size				JUA GAR	N CIA
FORCES	(lb) - Maximum Com Tension 1-2=0/30, 2-3=-2325 4-5=-1529/233, 5-6= 6-7=-2324/281, 7-8 7-9=-1313/218	pression/Maximum 5/281, 3-4=-1761/206 5-1763/206, 50/30, 2-15=-1314/21	LO 5, 8,	OAD CASE(S)	Standard						Philip	NUME E-20001	BER 44
BOT CHORD	14-15=-179/453, 13- 12-13=-80/1527, 10- 9-10=-99/455	14=-276/2071, 12=-189/2069,										1,0/ONA	
WEBS	3-14=-29/179, 3-13= 4-12=-230/244, 5-12 6-12=-634/214, 6-10 2-14=-97/1625, 7-10	637/214, 4-13=-35/ ≥55/401, )=-31/177, )=-91/1622	345,									JUAN CE	ARCIA
NOTES													
<ol> <li>Unbalance this design</li> <li>Wind: ASG Vasd=91n II; Exp C; cantilever right expo</li> <li>Provide ad</li> </ol>	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BCI Enclosed; MWFRS (en left and right exposed sed; Lumber DOL=1.6( dequate drainage to pro	been considered for (3-second gust) DL=6.0psf; h=25ft; C ivelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 event water ponding	Cat. e; d 50								THINK.	PROCESSION	AL ENGINI

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March 7,2024

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Scale = 1:56

00010 - 1100														
Plate Offsets	(X, Y): [9:0-3-0,0-2-4], [	10:0-2-8,0-1-8], [14	:0-2-8,0-1	-8], [15:0-3-0,0	-2-4]									
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 IRC201	8/TPI2014	CSI TC BC WB Matrix-S	0.59 0.54 0.51	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.11 -0.22 0.06 0.07	(loc) 13-14 11-13 9 13-14	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 112 lb	<b>GRIP</b> 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Excep No.2 Structural wood sheat 3-4-3 oc purlins, exce 2-0-0 oc purlins (3-8-1 Rigid ceiling directly a bracing. (size) 9=0-3-8, 15 Max Horiz 15=72 (LC Max Uplift 9=-170 (LC Max Grav 9=1380 (LC	thing directly applie ept end verticals, ar 12 max.): 4-5. applied or 10-0-0 oc 5=0-3-8 12) 2 9), 15=-170 (LC 8) 2 1), 15=1380 (LC 1	5) F 6) 7) d or nd 8) : 9) 1) L(	* This truss I on the bottor 3-06-00 tall I chord and an All bearings Provide mec bearing plate 15 and 170 I This truss is International R802.10.2 a Graphical pu or the orients bottom chore	has been designe n chord in all are: by 2-00-00 wide v by other members are assumed to b hanical connectic capable of withs b uplift at joint 9. designed in acco Residential Code at referenced sta rlin representatio ation of the purlin b. Standard	d for a liv as where vill fit betv s. be SPF No n (by oth tanding 1 rdance w a sections indard AN n does no along the	e load of 20.0 a rectangle veen the botto o.2. TO Ib uplift at ith the 2018 R 502.11.1 st JCPT 1. ot depict the s top and/or	Dpsf om ; joint ind size			*	JUA GAR	MISSOUR CIA	11111 1
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Comp Tension 1-2=0/30, 2-3=-2287/2 4-5=-1690/234, 5-6=- 6-7=-2287/239, 7-8=0 7-9=-1309/205 14-15=-189/538, 13-1	vression/Maximum 239, 3-4=-1905/231 1906/231, J/30, 2-15=-1309/20 4=-218/2026,	, )5,								Philip	NUM E-20001	BER 62101	illin.
WEBS	11-13=-80/1690, 10-1 9-10=-122/538 3-14=-43/132, 3-13=-4 4-11=-177/178, 5-11= 6-10=-44/132, 2-14=-7	1=-146/2025, 419/167, 4-13=-24/ 0/353, 6-11=-418/1 71/1495, 7-10=-71/	352, 67, 1495									IN UAN C	ARCIA	
NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=91r II; Exp C; cantilever right expc 3) Provide a 4) This truss chord live	ed roof live loads have b n. CE 7-16; Vult=115mph ( mph; TCDL=6.0psf; BCD Enclosed; MWFRS (env left and right exposed ; used; Lumber DOL=1.60 dequate drainage to pre- has been designed for a load nonconcurrent with	been considered for 3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon end vertical left anc plate grip DOL=1.6 vent water ponding a 10.0 psf bottom a no other live loac	Cat. e; d 50								. THINK	PROCESSION	NSEO 952 ALENGIN	ALL DATE OF THE OF T

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Typ	pe	Qty	Ply L	ot 116 MN	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
240612	E10	Hip		1	1 J	ob Reference (optional	I64102261 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly,	KS - 66871,		Run: 8.73 S ID:sr5vJWqT	Feb 22 2024 Print: 8.7 neBzm?BHQx1bZdyKy	30 S Feb 22 2 /AV-RfC?PsB	024 MiTek Industries, Inc. 70Hq3NSgPqnL8w3uITXbC	hu Mar 0143/2024 KWrCD0742.077
	0 10 8						
	0-10-8 4-1-15	9-1	9-5 4	-8-8 -9-4	<u>19-5-12</u> 4-9-4	25-3	- <u>1 29-5-0</u> -5 4-1-15
<b>F</b> -	0 10 0		6x6=	2x4 <b>u</b>		6x6=	
		512 3x4 =				6	3x4 <b>.</b>
-10-0 -10-0		3					7 8x8≈ 8
	X	15	14	13	12	11	10
	8x8 =	4x8=	3x4=	3x10=		3x4 =	4x8=
					3x4 =		

4-1-15 5-8-1 4-10-8 4-10-8	5-8-1	4-1-15

Scale = 1:54.6

Plate Offsets (	X, Y): [8:Edge,0-2-4],	[10:0-2-8,0-2-0], [15	:0-2-8,0-2-	-0], [16:0-3-0,0	-2-4]									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.61 0.58 0.63	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.13 -0.23 0.07 0.09	(loc) 13 11-13 9 13	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 111 lb	<b>GRIP</b> 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood shea 3-0-15 oc purlins, ex 2-0-0 oc purlins (3-9- Rigid ceiling directly bracing. (size) 9= Mecha	pt* 16-2,9-8:2x6 SPI athing directly applie kcept end verticals, a -15 max.): 4-6. applied or 10-0-0 oc nical, 16=0-3-8	4) 5) F d or 6) and 7) 8) ; 9)	This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar All bearings Refer to gird Provide mec bearing plate 16 and 128 l This truss is International	is been designed f ad nonconcurrent has been designed in chord in all area by 2-00-00 wide wi hy other members, are assumed to be er(s) for truss to tr hanical connection capable of withst b uplift at joint 9. designed in accor Residential Code	for a 10.0 with any d for a liv is where ill fit betw e SPF No uss conr n (by oth ianding 1 dance w sections	) psf bottom other live loa e load of 20. a rectangle veen the bott 0.2. ers) of truss 63 lb uplift a th the 2018 R502.11.1 a	ads. Opsf om to t joint			11.	VA.	AISSOUT	
FORCES	Max Horiz 16=65 (LC Max Uplift 9=-128 (LC Max Grav 9=1302 (L (lb) - Maximum Com	C 12) C 5), 16=-163 (LC 4) C 1), 16=1382 (LC 1 pression/Maximum	) 10 1)	) Graphical pu or the orienta bottom chore	rtesidential code nd referenced star rlin representation ation of the purlin a d.	ndard AN n does no along the	ISI/TPI 1. of depict the s top and/or	size			it P	GAR		****
TOP CHORD	1-2=0/30, 2-3=-2222 4-5=-2105/329, 5-6= 6-7=-2086/281, 7-8= 2-16=-1326/178, 82	/239, 3-4=-2082/279 -2105/329, -2235/243, =-1245/143 5 - 216/2002	), LC	OAD CASE(S)	Standard						1111	E-20001	62101 W	
BOICHORD	15-16=-78/243, 14-1 13-14=-166/1852, 11 10-11=-206/2022, 9-	5=-216/2003,  -13=-175/1855, 10=-27/223										2000	inn	
WEBS	3-14=-194/148, 4-14 6-13=-80/476, 6-11= 2-15=-177/1783, 8-1 5-13=-411/159, 3-15	=0/263, 4-13=-80/47 0/266, 7-11=-210/15 0=-182/1821, =-211/95, 7-10=-217	79, 51, 7/96									NIN JUAN C	ARCIA	1
NOTES														-
<ol> <li>Unbalance this design</li> <li>Wind: ASC Vasd=91n II; Exp C; cantilever right export</li> <li>Provide act</li> </ol>	ed roof live loads have n. CE 7-16; Vult=115mph nph; TCDL=6.0psf; BCI Enclosed; MWFRS (en left and right exposed : sed; Lumber DOL=1.60 dequate drainage to pre	been considered for (3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 event water ponding	Cat. e; d 50								THINK'S	PROKESSION	AL ENOLI	

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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 116 MN	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
240612	E11	Hip	1	1	Job Reference (optiona	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly	/, KS - 66871,		Run: 8.73 S Feb 22 2024 Print: ID:RGQngUoaUjpOvYTilpTux?y	8.730 S Feb KyAY-RfC?F	22 2024 MiTek Industries, Inc. PsB70Hq3NSgPqnL8w3uITXb0	hu Mar 014:/02/29:24
	-0-10-8 7-	11-4	14-8-8		21-5-12	29-5-0
	0-10-8 7-	11-4	6-9-4		6-9-4	7-11-4
		6x8=	2x4	II	6x8=	
+-1-11 +-0-1 +-0-1 +-0-1 1-10	1					8x8± 6 7
C	⊠ 8x8 ≤	11	10	9	8	
		3x6=	3x10	= 3x6 =	3x6=	
	7-	10-0	14-8-8 ı		21-7-0	29-5-0
	7-	10-0	6-10-8		6-10-8	7-10-0

Scale = 1:54.5

Plate Offsets (	(X, Y): [3:0-4-2,Edge],	[5:0-4-2,Edge], [6:Ed	dge,0-2-4]	, [8:0-2-8,0-1-8	8], [11:0-2-8,0-1-8	3], [12:0-3·	-0,0-2-4]						
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 IRC2018	3/TPI2014	CSI TC BC WB Matrix-S	0.96 0.60 0.50	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.16 -0.30 0.06 0.12	(loc) 10 8-10 7 10	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	<b>PLATES</b> MT20 Weight: 104 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this desig 2) Wind: AS( Vasd=91n II; Exp C; cantilever right expo 3) Provide ar 4) This truss chord live	2x4 SPF No.2 *Exce 1.8E 2x4 SPF No.2 2x3 SPF No.2 *Exce No.2 Structural wood she except end verticals (2-2-0 max.): 3-5. Rigid ceiling directly bracing. (size) 7= Mecha Max Horiz 12=50 (LC Max Uplift 7=-153 (L Max Grav 7=1302 (L (Ib) - Maximum Com Tension 1-2=0/30, 2-3=-2284 4-5=-2632/449, 5-6= 2-12=-1307/229, 6-7 11-12=-290/789, 10- 8-10=-241/2015, 7-8 3-11=0/230, 3-10=-1 5-10=-156/835, 5-8= 6-8=-155/1444 ed roof live loads have n. CE 7-16; Vult=115mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed dequate drainage to pr has been designed for load nonconcurrent wi	ept* 5-6:2x4 SPF 210 ept* 12-2,7-6:2x6 SPF athing directly applied , and 2-0-0 oc purlins applied or 10-0-0 oc anical, 12=0-3-8 C 5), 12=-187 (LC 4) .C 1), 12=-1382 (LC 1) .pression/Maximum 1/314, 3-4=-2632/449 -2285/315, '=-1225/194 .11=-229/2004, 3=-140/577 159/843, 4-10=-577/2 e0/224, 2-11=-86/134 been considered for (3-second gust) DL=6.0psf; h=25ft; C velope) exterior zone; ; end vertical left and 0 plate grip DOL=1.6 event water ponding, r a 10.0 psf bottom th any other live load	5) OF () () () () () () () () () ()	* This truss h on the bottor 3-06-00 tall b chord and ar All bearings a Refer to gird Provide mec bearing plate 12 and 153 ll This truss is International R802.10.2 ar ) Graphical pu or the orienta bottom chorc DAD CASE(S)	as been designe n chord in all are: by 2-00-00 wide v ay other members are assumed to b capable of withs o uplift at joint 7. designed in acco Residential Code do referenced sta rlin representatio ation of the purlin t. Standard	ed for a live as where vill fit betw s. De SPF No truss conna on (by oth- standing 1 ordance wi e sections andard AN on does no along the	e load of 20. a rectangle veen the bott b.2. ers) of truss 87 lb uplift a ith the 2018 R502.11.1 a ISI/TPI 1. ot depict the top and/or	Opsf om to t joint and size				JUAN C GARG NUME E-20001 SS/ONA 160 BO SS/ONA 160 BO SS/ONA 160 BO SS/ONA 160 BO SS/ONA	NCIA BER 62101 LENG SARCIA NSEO 52 SAS SAS SAS SAS SAS

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 toules bible 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



												RE	LEASE FO		
Job	Truss		Truss Typ	е			Qty	Ply	Lot	116 MN		A	S NOTED I DEVELOP	OR PLAN	REVIEW
240612	E12		Hip Girde	ər			1	2	Jol	Reference	e (optiona	ľ	LEE'S SU	164102263 MMIT, MISS	OURI
Wheeler Lumber, Waverly,	KS - 66871,				Run: ID:Oe	8.73 S Feb XX5Apq0K3	22 2024 Prir 68rc5sEWN	t: 8.730 S 0QyKyAW	Feb 22 202 -RfC?PsB7	4 MiTek Ind 0Hq3NSgPo	ustries, Inc. qnL8w3uITX	hu Mar (7) trGKWrCD97	<b>14/0</b>	2/20	924
	-0-10-8	5-11-4		11-8	-13		17-8	-3		23-	<u>-5-12</u>		29	5-0	—
	0-10-8	5-11-4		5-9	-9		5-11	-0		0-	9-9		5-1	1-4	
			NAILED	NAILED	NAILED	NAILED	NAILED	IAILED	NAILED	NAILED	NAILED	NAILED			
			6x6=			3x4 =			2x4 🛚			6x6=			
+ <del>2</del> − 6		12 9 5 +=	3	15	16	4	17	18	5	19	20	6			
e e		6			Ш			ш	<u>P</u>	ш			$\leq$		
<u>3-11</u> -2-5	. /													$\searrow$	6×8≈
	1														
$\bot$ $\bot$ $\stackrel{5}{\leftarrow}$				0.0	0.0		0.0	m I.		0.0	0.0		0.0	ПЛ	8
	⊠ 6x8 <		13	21	22	12	23	24 11	10	25	26	9	27	28	
			4x8=					6X6=	4x8=			4x8=	111524	111524	
			LIHJAZO	NAILED	NAILED	NAILED	NAILLD	IAILED	NAILED	NAILED	NAILLD	NAILED	20024	20024	
	L	5-9-8		11-8-	-13		17-8	-3		23	8-7-8		29	-5-0	
	I	5-9-8	I	5-11	-5	I	5-11	-5	I	5-	11-5	I	5-	9-8	I
Scale = 1:54.5															
Plate Offects (X V): [7	·····3-0 0-2-01 [0·0-4	3-8 0-2-01 [13-	0-3-8 0-2-01	[14.0-3-0	0-2-41										

	( ) <b>) [</b> )];	[;];[	, -	-1/L /-									
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOI	1 15		TC	0.96	Vert(LL)	-0.22	10-12	>999	360	MT20	197/144
TCDI	10.0	Lumber DOI	1 15		BC	0.73	Vert(CT)	-0.40	10-12	>878	240		
BCU	0.0*	Ren Stress Incr	NO		WB	0.42	Horz(CT)	0.05		n/a			
BCDI	10.0	Code	IRC201	8/TPI2014	Matrix-S	02	Wind(LL)	0.19	10-12	>999	240	Weight <sup>,</sup> 268 lb	FT = 10%
		0000		0, 11 12011				0.1.0	10 12	1000	2.0	11019111 200 10	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x6 SPF No.2 2x4 SPF No.2 *Exce No.2 Structural wood she 5-3-14 oc purlins, e 2-0-0 oc purlins (3-8 Rigid ceiling directly bracing. (size) 8= Mecha Max Horiz, 14-39 (J	ept* 14-2,8-7:2x6 SPF athing directly applied xcept end verticals, ar -2 max.): 3-6. applied or 10-0-0 oc anical, 14=0-3-8	2) 3) or 4) 5)	All loads are except if note CASE(S) sec provided to c unless othen Unbalanced this design. Wind: ASCE Vasd=91mph II; Exp C; En cantilever lef right expose Provide adec	considered equa ad as front (F) or l tition. Ply to ply cc iistribute only load wise indicated. roof live loads ha 7-16; Vult=115m r; TCD=6.0psf; E closed; MWFRS t and right expose t; Lumber DOL=1 quate drainage to	Ily applie back (B) onnection ds noted ve been of ph (3-sec BCDL=6.0 (envelope ed; end v 1.60 plate prevent of	d to all plies, face in the LC s have been as (F) or (B), considered for cond gust) Opsf; h=25ft; ( e) exterior zor vertical left an grip DOL=1.6 water ponding	DAD r Cat. le; d 60 j.	16) "NA (0.1 LOAD ( 1) De Pla Ur Cc	ILED" ir 48"x3.2 CASE(S) aad + Ro ate Incre- inform Lo Vert: 1-2 Orncentra Vert: 3= (B), 4=- 15=-110 19=-110 23=-51	ndicate 5") toe of Live ase=1 bads (1 2=-70, tee Lo -110 (8 110 (8), 1 0 (8), 2 (8), 2	s 3-10d (0.148"x -nails per NDS c ndard (halanced): Lur +5 23=-70, 3-6+7/ ads (lb) 23=-110 (B), 10 (5=-110 (B), 17 (5=-110 (B), 17)(17)(17)(17)(17)(17)(17)(17)(17)(17)(	:3") or 3-12d juidlines. Hold Cherease=1.15, 0,16-7=-70, 8 14=20 (CIA 3=-410 (B), 12=61 )=-51 (B), 9=-51 (B), -110 (B), 18=-100 (B), -51 (B), 22=-61 (B), -51 (B), 22=-61 (B),
FORCES	Max Holiz 14=59 (LC Max Uplift 8=-539 (L Max Grav 8=2593 (L (lb) - Maximum Com	.C 5), 14=-524 (LC 4) .C 1), 14=2523 (LC 1) .pression/Maximum	6) 7)	This truss ha chord live loa * This truss h on the bottor	s been designed ad nonconcurrent as been designe n chord in all area	for a 10.0 with any d for a liv as where	0 psf bottom other live load re load of 20.0 a rectangle	ds. Ipsf		27=-230	(B), 2 ) (B), 2	8=230 (B) \$\$ \$\$ ON	ALENGI
TOP CHORD	Tension 1-2=0/30, 2-3=-4775 4-5=-6496/1437, 5-6 6-7=-4687/992, 2-14 7-8=-2254/478	5/1017, 3-4=-6596/146 5=-6500/1439, I=-2404/534,	66, 8) 9) 10	3-06-00 tall b chord and ar All bearings Refer to girde	by 2-00-00 wide w by other members are assumed to b er(s) for truss to the banical connection	vill fit betv s. e SPF No russ conr on (by oth	veen the botto c.2 . nections. ers) of truss to	om S					
BOT CHORD	13-14=-287/1014, 12 10-12=-1406/6592, 9 8-9=-273/1102	2-13=-902/4331, 9-10=-888/4262,	11	bearing plate 14 and 539 ll ) This truss is	capable of withs o uplift at joint 8.	itanding 5	ith the 2018	joint					
WEBS	3-13=0/307, 3-12=-5 4-10=-155/53, 5-10= 6-10=-554/2564, 6-9 7-9=-635/3182	563/2588, 4-12=-836/3 =-849/394, 9=0/272, 2-13=-692/33	885, 890, 12	International R802.10.2 ar ) Graphical pu or the orienta	Residential Code nd referenced sta rlin representation ation of the purlin	e sections indard AN n does no along the	s R502.11.1 a NSI/TPI 1. ot depict the s	nd ize				JUAN CE	GARCIA
NOTES				bottom chore	l.								
1) 2-ply truss (0.131"x3" Top chord oc, 2x6 - 2 Bottom ch staggered Web conn	s to be connected toged ') nails as follows: Is connected as follows 2 rows staggered at 0-5 rords connected as follows at 0-9-0 oc. lected as follows: 2x4 -	<ul> <li>B) Use Simpsor Right Hand F end to conner</li> <li>Use Simpsor Truss) or equivariant of equivariant 25-5-0 from to back face of</li> <li>Fill all nail hor</li> </ul>	Strong-Tie LTH, tip) or equivalent ct truss(es) to ba n Strong-Tie LUSS; uivalent spaced a he left end to 27- bottom chord. les where hange	JA26 (LT at 5-11-1 ick face o 24 (4-10c t 2-0-0 oc 5-0 to co r is in cor	HJA26 on 2 p 10 from the lef f bottom chore d Girder, 2-10 c max. starting nnect truss(es ntact with lumb	ly, it d. g at s) to per.			THINK.	PROCESSION	952 VSAS		

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Scale = 1:42.3

#### Loading 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP (psf) Spacing (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 тс 0.46 Vert(LL) -0.15 9-11 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.64 Vert(CT) -0.34 9-11 >723 240 BCLL 0.0\* Rep Stress Incr YES WB Horz(CT) 0.03 8 0.32 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.05 9-11 >999 240 Weight: 73 lb FT = 10% LUMBER 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle TOP CHORD 2x4 SPF No.2 3-06-00 tall by 2-00-00 wide will fit between the bottom BOT CHORD 2x4 SPF No.2 chord and any other members. 2x3 SPF No.2 \*Except\* 12-2,8-6:2x4 SPF WEBS 6) All bearings are assumed to be SPF No.2 . No 2 Provide mechanical connection (by others) of truss to 7) BRACING bearing plate capable of withstanding 135 lb uplift at joint TOP CHORD Structural wood sheathing directly applied or 12 and 135 lb uplift at joint 8. 4-3-7 oc purlins, except end verticals, and This truss is designed in accordance with the 2018 11111 8) 2-0-0 oc purlins (4-10-15 max.): 3-5. MIS International Residential Code sections R502.11.1 and 0 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc R802.10.2 and referenced standard ANSI/TPI 1. NS \* PROIN bracing 9) Graphical purlin representation does not depict the size REACTIONS 8=0-3-8, 12=0-3-8 (size) or the orientation of the purlin along the top and/or Max Horiz 12=-29 (LC 13) JUAN bottom chord. Max Uplift 8=-135 (LC 5), 12=-135 (LC 4) GARCIA LOAD CASE(S) Standard Max Grav 8=988 (LC 1), 12=988 (LC 1) FORCES (lb) - Maximum Compression/Maximum NUMBER Tension TOP CHORD 1-2=0/27, 2-3=-1533/188, 3-4=-1333/194, F 2000162101 4-5=-1333/194, 5-6=-1533/188, 6-7=0/27, GIT 2-12=-943/157, 6-8=-943/157 BOT CHORD 11-12=-163/422, 9-11=-226/1613, ONALE 8-9=-136/422

# WEBS

 Unbalanced roof live loads have been considered for this design.

3-11=0/310, 4-11=-427/136, 4-9=-427/136,

5-9=0/310, 2-11=-38/932, 6-9=-38/932

Plate Offsets (X, Y): [8:Edge,0-5-11], [12:Edge,0-5-11]

 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) exterior 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.

# 16952 March 7,2024

min

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BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 \*Except\* 11-2,7-5:2x6 SPF WEBS No.2 BRACING Structural wood sheathing directly applied or TOP CHORD 3-4-15 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-10 max.): 3-4. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing REACTIONS 7=0-3-8, 11=0-3-8 (size) Max Horiz 11=42 (LC 8) Max Uplift 7=-122 (LC 9), 11=-122 (LC 8)

- Max Grav 7=987 (LC 1), 11=987 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension 1-2=0/30, 2-3=-1404/152, 3-4=-1189/169, TOP CHORD 4-5=-1405/152, 5-6=0/30, 2-11=-911/168, 5-7=-912/167 BOT CHORD 10-11=-276/731, 9-10=-62/1189,
- 7-9=-237/730 WEBS 3-10=0/221, 3-9=-150/150, 4-9=0/221,

#### NOTES

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

2-10=0/619, 5-9=0/620

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

- 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.
- 6) All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to 7) bearing plate capable of withstanding 122 lb uplift at joint 11 and 122 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 8) 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.

LOAD CASE(S) Standard



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												_ [	RELEASE	FOR CONSTRUCTIO	N
Job		Truss		Truss Ty	ре		Qty	,	Ply	Lot 116 N	IN		AS NOTE	D FOR PLAN REVIEW	V
240612		G4		Hip Giro	der		1		2	Job Refer	ence (or	otional	LEE'S	I64102267 SUMMIT, MISSOURI	
Wheeler Lumber	, Waverly, KS - 6	66871,		1		Run: 8.73 S Feb 2 ID:7cJ1dLgdDu7c?	2 2024 I iyLFrlZx	Print: 8.7: 3zdKeC-	30 S Feb 2 RfC?PsB7	2 2024 MiTel 0Hq3NSgPqr	Industrie L8w3uIT	s, Inc. 1 (bGKW	hu Mar (7) 1/56:/5 CDoi7J4zJC?f	)2/202	4
			-0-10-8 0-10-8	<u>4-11-11</u> 4-11-11		9-8-14 4-9-3		10-11-2 1-2-4	2	<u>15-8-5</u> 4-9-3		-	20-8-0 4-11-11	———————————————————————————————————————	
-	+				12 5 Г		4	5×6 =	4x5 =						
4-10-4	4-9-1 0 0	10-0	1		3x4							8×6 ≈ 6		6x8=	
-		<u>-</u>	₩14		13		12	2	 11 10	1	11 5	9 16	17	∐o	
			6x6 ≠		4x5 =		3x	4=	3x10=			6x6 =			
									4x8	HU:	S26	HUS26	HUS26	HUS26	
Scale = 1:46				<u>4-11-11</u> 4-11-11		9-7-2 4-7-7		<u>11-0-14</u> 1-5-12	<u>+</u>	<u>15-8-5</u> 4-7-7			<u>20-8-0</u> 4-11-11		
Plate Offsets (2	X, Y): [7:0-3-4	4,0-5-4],	[9:0-3-0,0-4-4], [14:0	)-1-4,0-2-8]											
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	0.29 0.67 0.39	DEFL Vert(LI Vert(C Horz(C	L) -0. T) -0. CT) 0.	in (loc) .07 9-11 .12 9-11 .02 8	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 197/144	
BCDL		10.0	Code	IRC2018	/TPI2014	Matrix-S	0.00	Wind(L	_L) 0.	.05 9-11	>999	240	Weight: 210 lb	FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SPF No 2x6 SPF No 2x4 SPF No No.2 Structural w 5-6-9 oc pur 2-0-0 oc pur Rigid ceiling	.2 .2 *Exce lood shea lins, exc lins (6-0- directly	pt* 14-2,8-7:2x6 SPF athing directly applie xept end verticals, ar -0 max.): 4-5. applied or 10-0-0 oc	2) = 3) d or 4)	All loads are except if note CASE(S) sec provided to d unless otherw Unbalanced this design. Wind: ASCE Vasd=91mph II; Exp C; Em	considered equally ed as front (F) or bar tion. Ply to ply conr istribute only loads vise indicated. roof live loads have 7-16; Vult=115mph ; TCDL=6.0psf; BC closed; MWFRS (er : and right expected	applied ck (B) f hections noted a been c (3-sec DL=6.0 ivelope	to all p ace in the s have to as (F) or consider ond gus opsf; h=2 e) exterio	lies, he LOAD been r (B), red for st) 25ft; Cat. or zone;	LOAD 1) D P U C	CASE(S ead + Re late Incre niform L Vert: 1- oncentra Vert: 8= (B)	) Star pof Live ease=1 oads (II 2=-70, ited Los 1198	ndard (balanced): Lum .15 ./ft) 2-4=-70, 4-5=-70 ads (lb) (B), 15=-887 (B), 	ber Increase=1.15, 5-7=-70, 8-14=-20 16=-887 (B), 17=-8 115	87
REACTIONS	bracing. (size) 8= Max Horiz 14 Max Uplift 8=	=0-3-8, 1 4=66 (LC =-777 (L(	4=0-3-8 \$ 8) C 9), 14=-218 (LC 8)	5) 6)	right exposed Provide aded This truss ha chord live loa	d; Lumber DOL=1.6 uate drainage to prosent s been designed for d nonconcurrent wi	, end v 0 plate event v a 10.0 th any	grip DC vater po ) psf bot other liv	DL=1.60 onding. tom re loads.			······	D JUA GARO	N DIA	
FORCES	(lb) - Maxim	=4205 (L um Com	pression/Maximum	) 7)	* This truss h on the botton	as been designed for the chord in all areas	or a live where	e load o a rectan	f 20.0psf igle			E		-	
TOP CHORD	Tension 1-2=0/30, 2- 4-5=-2471/3 6-7=-4912/6	3=-2627 66, 5-6= 70, 2-14	/340, 3-4=-2499/331 -2758/369, =-1445/237,	, 8) 9)	3-06-00 tall b chord and an All bearings a Provide mech	y 2-00-00 wide will y other members. are assumed to be S nanical connection (	fit betw SPF No by othe	een the 0.2 . ers) of tr	bottom			1111	E-20001	62101	
BOT CHORD	7-8=-2395/3 13-14=-157/ 11-12=-232/ 8-9=-200/13	59 583, 12- 2256, 9- 40	13=-322/2361, 11=-579/4472,	10)	bearing plate 14 and 777 lk This truss is o	capable of withstar o uplift at joint 8. designed in accorda	nding 2	18 lb up th the 2	olift at join 018 1 1 and	t			III SONA	LENIN	
WEBS	3-13=-198/9 4-12=-141/1 5-11=-115/8 6-9=-173/16 7-9=-381/31	1, 3-12= 00, 4-11 19, 6-11 62, 2-13 53	-160/240, =-166/892, =-2291/413, =-167/1789,	11)	Graphical pu or the orienta bottom chord	Residential Code se ad referenced stand rlin representation d tion of the purlin alc	ard AN loes no ong the	SI/TPI 1 SI/TPI 1 top and top and	the size				JUAN C	ARCIA	
NOTES 1) 2-ply truss (0.131"x3" Top chords oc, 2x6 - 2 Bottom cho staggered Web conne	to be connect ) nails as follo s connected a rows stagger ords connecte at 0-9-0 oc. ected as follow	ted toget ws: s follows ed at 0-9 d as follo vs: 2x4 -	her with 10d : 2x4 - 1 row at 0-9-( -0 oc. wws: 2x6 - 2 rows 1 row at 0-9-0 oc.	) 13) 14)	Truss) or equ 14-2-0 from t back face of Fill all nail ho Hanger(s) or provided suff lb down and design/select responsibility	wivalent spaced at 2: he left end to 20-2-( bottom chord. les where hanger is other connection de cicient to support cor 364 lb up at 20-5-4 ion of such connect of others.	in con vice(s) on bot	tact with shall b ted load tom cho	tarting at uss(es) to h lumber. e d(s) 1198 ord. The s the			THINK.	PROKESSION	ALENCHII	

- staggered at 0-9-0 oc.
- Web connected as follows: 2x4 1 row at 0-9-0 oc.

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											RELEASE	FOR CONSTRUCTION
Job		Truss		Truss Type		Qty	Ply	Lot 116 MM	N		AS NOTE DEVEL	D FOR PLAN REVIEW
240612		H1		Common Supporte	d Gable	1	1	Job Refere	ence (opt	tional	LEE'S	I64102268 SUMMIT, MISSOURI
Wheeler Lumber	, Waverly, KS	- 66871,			Run: 8.73 S Feb	22 2024 Print: 8	.730 S Feb 2	2 2024 MiTek	Industries	, Inc.	hu Mar (7) 1,6:46	02/2024
					ID. ITIKezoliboQp	24K74gwbJiviyK	YAD-RIC (FS	влопцзімодец	nrowani	ADGh	WICD01734230?	
			-0-10-8	5-	7-10	I		11	-3-4		12	-1-12
			0-10-8	5-	7-10			5-7	7-10		0-	10-8
						4x5	-					
				5	12	5						
				J	1			6				
					4							
				3					$\sim$		7	
	3-2		2	P						- -	8	
		<u> </u>	1									9
		0-10-	16									10
			3x <sup>2</sup>	15 0 u	14	13	~~~~~~	12		11	3x10	
Scolo - 1:20 2						11-3-4						
Plate Offsets (	X, Y): [10:0-	5-8,0-1-8]	, [16:0-5-8,0-1-8]									
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 IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.07 Verti 0.02 Verti 0.02 Horz	L (LL) (CT) :(CT) 0	in (loc) n/a - n/a - .00 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 39 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design	2x4 SPF N 2x4 SPF N 2x4 SPF N 2x4 SPF N Structural v 10-0-0 cc p Rigid ceilin bracing. (size) Max Horiz Max Uplift Max Grav (lb) - Maxin Tension 2-16=-129/ 3-4=-16/53 8-10=-129/ 15-16=-13/ 12-13=-134/ 6-12=-158/ ed roof live lo	0.2 0.2 0.2 0.2 0.2 0.2 10=11-3-4 13=11-3-4 16=128 (L1 12=-52 (L1 15=-51 (L1 12=-52 (L1))))))))))))))))))))))))))))))))))))	athing directly applied ccept end verticals. applied or 6-0-0 oc , 11=11-3-4, 12=11-3 , 14=11-3-4, 15=11-3 C 9) C 5), 11=-49 (LC 9), C 9), 14=-52 (LC 8), C 8), 16=-42 (LC 4) C 22), 13=174 (LC 1) C 22), 13=174 (LC 1) C 21), 15=144 (LC 1) C 21), 15=144 (LC 1) C 21), 15=144 (LC 1) C 21), ression/Maximum /27, 2-3=-25/42, 72, 5-6=-23/68, 38, 8-9=0/27, =-13/28, 13-14=-13/2 =-13/28, 13-14=-13/2 [58/77, 3-15=-108/67 -108/66 been considered for	<ol> <li>Wind: ASCE Vasd=91mpi II; Exp C; Ern cantilever lei right expose</li> <li>Truss desig only. For stt see Standar or consult qu</li> <li>All plates are</li> <li>Gable requir</li> <li>Truss to be 1 braced agair</li> <li>Gable studs</li> <li>This truss he chord live loi</li> <li>* This truss 1 on the botton 3-06-00 tall 1 chord and ar</li> <li>All bearings</li> <li>Provide mec bearing plate 16, 41 lb upl uplift at joint 11.</li> <li>This truss is International R802.10.2 a</li> <li>LOAD CASE(S)</li> </ol>	7-16; Vult=115mp 1; TCDL=6.0psf; Bi closed; MWFRS (et t and right exposed d; Lumber DOL=1. ned for wind loads uds exposed to wind l Industry Gable E alified building des 2x4 MT20 unless es continuous bott ully sheathed from stal tateral moveme spaced at 2-0-0 oc is been designed fi ad nonconcurrent v as been designed fi ad nonconcurrent v as been designed in al areas by 2-00-00 wide will y other members. are assumed to be thanical connection c capable of withsta ift at joint 10, 52 lb 15, 52 lb uplift at jc designed in accord Residential Code nd referenced stan Standard	h (3-second g CDL=6.0psf; h envelope) exte d; end vertica 60 plate grip I in the plane o id (normal to the otherwise ind om chord beai or ne face or s nt (i.e. diagon c. or a 10.0 psf b with any other or a live load s where a rect Il fit between the sections R502 dance with the sections R502 idard ANSI/TP	ust) =25ft; Cat. erior zone; I left and DOL=1.60 f the truss he face), applicable, ANSI/TPI 1. icated. rring. ecurely al web). bottom live loads. I of 20.0psf angle he bottom f truss to plift at joint 4, 51 lb lb uplift at 2018 2.11.1 and 1 1.				DUA GAR NUME E-20001 SS/ONA LCE 169 NONA	MISSOCIA BER 62101 ALENO ALENO $ALENOALENOALENO$

Astitute (www.tpinst.org) Mittee Ket Monte Stringley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / Mittek-US.com

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						RELEASE FOR CONSTRUCTION
lob	Trues		Otv	Plv	Lot 116 MN	AS NOTED FOR PLAN REVIEW
000	11033		Quy	l''y		DEVELOPMENT SERVICES
240612	H2	Common Girder	1	2	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS - 6	66871,	Run: 8.73 S Feb 22 2	024 Print: 8.	730 S Feb 22	2 2024 MiTek Industries, Inc.	

ID:oDDgjBrjJFRg?JLgYM33e2yKyAT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi794zJC?



			166	020-2 11002	10020	
	1	3-7-8	7-7-12	2	11-3-4	1
		3-7-8	4-0-4		3-7-8	
Scale = 1:33.4						

#### Plate Offsets (X, Y): [2:Edge,0-1-0], [6:Edge,0-1-0], [7:0-4-0,0-4-12], [8:0-4-0,0-4-12]

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 116 MN	
240612	J1	Diagonal Hip Girder	2	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS -	66871,	Run: 8.73 S Feb 22 ID:1hke2SliBoQp24k	2024 Print: 8 74gwBJMyKy	.730 S Feb 2 /Ab-RfC?PsE	2 2024 MiTek Industries, Inc. <sup>–</sup> 370Hq3NSgPqnL8w3ulTXbGk	hu Mar 0146, 02/2024
		1 1			l	
		-1-2-14	3-3-14	1		
		1-2-14	3-3-14	1		



3-3-14	1

Scale = 1:23.5

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 (roof)	25.0	Plate Grip DOL	1.15		TC	0.14	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.05	Vert(CT)	0.00	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	/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 11 lb	FT = 10%
			8)	In the LOAD	CASE(S) section	n. loads ar	oplied to the	face					
TOP CHORD	2x4 SPF No 2		-,	of the truss a	re noted as front	(F) or ba	ck (B).						
BOT CHORD	2x4 SPE No 2		10	AD CASE(S)	Standard	( )							
WEBS	2x4 SPF No.2 *Exce	ot* 3-4:2x3 SPF No.:	2 1)	Dead + Roc	of Live (balanced	). Lumber	Increase=1	15					
BRACING	2/1 0/1 10/2 2/00		,	Plate Increa	se=1.15	). Euriboi	11010000-11	10,					
TOP CHORD	Structural wood she	athing directly applie	d or	Uniform Loa	ads (lb/ft)								
	3-3-14 oc purlins, except end verticals. Vert: 1-2=-70												
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc Trapezoidal Loads (lb/ft)											111		
bracing. Vert: 2=-3 (F=34, B=34)-to-3=-58 (F=6, B=6), 5=0													
REACTIONS (size) 4= Mechanical, 5=0-4-9 (F=10, B=10)-to-4=-17 (F=2, B=2)										VISSI			
Max Horiz 5=87 (LC 7)										0,4			
Max Uplift 4=-38 (LC 12), 5=-77 (LC 4)									X	. 0-			
	Max Grav 4=59 (LC	3), 5=160 (LC 1)										JUA :	IN
FORCES	(lb) - Maximum Com	pression/Maximum									24	GAR	
	Tension	'									- ^		
TOP CHORD	2-5=-147/91, 1-2=0/	27, 2-3=-28/12,									-	1	·~ -
	3-4=-43/48										=7	NUME	BER :
BOT CHORD	4-5=-33/19											E-20001	62101 :4
NOTES											1	A	
1) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)									1	150000	GN
Vasd=91m	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; C	at.									IN ONL	LENN
II; Exp C; I	Enclosed; MWFRS (er	nvelope) exterior zon	e;									1111	iiiii
cantilever	left and right exposed	; end vertical left and											
right expos	sed; Lumber DOL=1.6	0 plate grip DOL=1.6	0										1111.
2) I NIS TRUSS	has been designed for	r a 10.0 psr bottom										NN C	JARO !!
2) * This true	s has been designed f	in any other live load	IS.									N JUN	····· A 11
on the bot	tom chord in all areas	where a rectangle	551									CE	NSE
3-06-00 ta	II by 2-00-00 wide will	fit between the botto	m										
chord and	any other members.										-	1 - E	1 2
4) All bearing	as are assumed to be S	SPF No.2 .										160	252
5) Refer to gi	irder(s) for truss to tru	ss connections.									-	10.	
6) Provide m	echanical connection (	(by others) of truss to	)								-	T	
bearing pla	ate capable of withstar	nding 77 lb uplift at jo	int									0.	145
5 and 38 ll	b uplift at joint 4.											A MAN	ISA3
7) This truss	is designed in accorda	ance with the 2018										1,00/01	ENUI
Internation	nal Residential Code s	ections R502.11.1 ar	d									III ON	AL
R802.10.2	and referenced stand	iard ANSI/TPI 1.										- 41	110.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

						RELEASE FOR CONSTRUCTION
lob	Trucc	Truce Type	011	DIV	Lot 116 MN	AS NOTED FOR PLAN REVIEW
300	TTUSS	Truss Type	Qly	Fiy	LOU I TO IVIN	DEVELOPMENT SERVICES
240612	J2	Jack-Closed	9	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
	•					

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. hu Mar 0143, 02/2024 ID:1hke2SliBoQp24k74gwBJMyKyAb-RfC?PsB70Hq3NSgPqnL8w3uITXbGK WrCDoi7, 2.0?





				2	2-5-4	-						
Scale = 1:23.6						I						
Plate Offsets (X, Y): [	5:0-5-8,0-1-8]											
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	

LUMBER			LOAD CASE(S)	Standard								
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-5	>999	240		
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
Loading	(psr)	Spacing	2-0-0	CSI		DEFL	IN	(IOC)	i/defi	L/a	PLATES	GRIP

LUMBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or
	2-5-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
REACTIONS	(size) 4= Mechanical, 5=0-3-8
	Max Horiz 5=71 (LC 5)
	Max Uplift 4=-25 (LC 5), 5=-41 (LC 4)
	Max Grav 4=82 (LC 1), 5=187 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	2-5=-165/56, 1-2=0/27, 2-3=-54/12,
	3-4=-60/31
BOT CHORD	4-5=-23/15

#### 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) 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.
- 4) All bearings are assumed to be SPF No.2.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 5 and 25 lb uplift at joint 4.
- 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 JUAN GARCIA ICENSES 16952 BO NAL ENGINE March 7,2024

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 lemporary 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

						RELEASE FOR CONSTRUCTION
loh	Trues		Otv	DIV	Lot 116 MN	AS NOTED FOR PLAN REVIEW
500	11035	Truss Type	QUY	i iy		DEVELOPMENT SERVICES
240612	J3	Diagonal Hip Girder	1	1	Job Reference (optional)	LEE'S SUMMIT, MISSOURI
						0.1.00.000.1

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Thu Mar 0146:402/2022 Rev 10:NolcwgPn\_VH2sx6ndDyC0ozyQWS-RfC?PsB70Hq3NSgPqnL8w3ulTXb0 KWrCD0w342y0?



#### Plate Offsets (X, Y): [3:0-10-3,0-2-8], [5:Edge,0-2-8]

Loading TCLL (root)         (psf)         Spacing 25.0         Spacing Plate Ging DOL Lumber DOL 1.15         2-0-0         CSI TC         DEFL TC         in         (loc)         //det         L/det         PLATES MT20         GRIP 197/144           TCDL         10.0         Plate Ging DOL Lumber DOL BCDL         1.15         BC         0.46         Vert(LL)         -0.13         6         >721         360         MT20         197/144           BCLL         0.00         Rep Stress Incr         NO         Code         IRC2018/TP12014         WE         Vert(LL)         -0.13         6         >728         240         Weight: 31 lb         FT = 10%           LUMBER TOP CHORD         10.0         Z46 SPF No.2         Z65 SPF No.2         -         7)         This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS/TP1 1.         80         NALED* indicates 3-104 (0.148*X37) or 2-12d (0.148*X3.25*) toe-nails per NOS guidlines.         9)         10 the LoAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).         5         Hodd CASE(S)         Section, loads applied to the face of the truss are noted as front (F) or back (B).         10 bead + Root Live (balanced): Lumber Increase=1.15, Plate Increase=1.15, Plate Increase=1.15, Plate Increase=1.16         1         Dead + Root Live (balanced): Lumber Increase=1.15, Plate	
10:DL       10:0       Lumber DOL       1.15       BC       0.46       Vert(C1)       -0.25       6       >375       240         BCLL       0.0°       Rep Stress Incr       NO       WB       0.02       Horz(CT)       0.10       5       n/a         BCDL       10.0       Code       IRC2018/TPI2014       Matrix-R       Wind(LL)       0.13       6       >728       240       Weight: 31 lb       FT = 10%         LUMBER       Code       IRC2018/TPI2014       Matrix-R       Wind(LL)       0.13       6       >728       240       Weight: 31 lb       FT = 10%         LUMBER       Zx6 SPF No.2       Kept No.2       Recent Additional Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.       802.10.2 and referenced standard ANSI/TPI 1.       802.10.2 and referenced standard ANSI/TPI 1.       802.10.2 and referenced standard ANSI/TPI 1.       80       NUALED' indicates 3-100 (0.148'x3') or 2.12d       0.148'x3.25'') toe-nails per NDS guidlines.       9)       10 in the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).       COAD CASE(S)       Standard       1)       Dead + Root Live (Dalanced): Lumber Increase=1.15, Plate Increase=1.15, Plate Increase=1.15       Uniform Loads (Ib/ft)       Vert: 9=-18 (F=-9, B=-9), 10=4 (F=2, B=2), 12=-59 (F=-29, B=-29)       Fe=29, B=-29)       Fe=29, B=-29)<	(psf)         Spacing         2-0-0         CSI         DEFL         in         (loc)         I/defl         L/d         PLATES         GRIP           25.0         Plate Grip DOL         1.15         TC         0.67         Vert(LL)         -0.13         6         >721         360         MT20         197/144
BCLL         0.0         Rep Stress incr         NO         WB         0.02         Horz(C1)         0.10         5         n/a         n/a           BCDL         10.0         Code         IRC2018/TPI2014         Mark         Wind(LL)         0.13         6         >728         240         Weight: 31 lb         FT = 10%           LUMBER         TOP CHORD         2x6 SPF No.2         7)         This truss is designed in accordance with the 2018         International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANS/TPI 1.         80         No         No         0.12         0.14 of 48/3.25") toe-nails per NDS guidlines.         9)         In the ICADD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).         10.04 CASE(S) Standard         10.04 R8/3.25") toe-nails per NDS guidlines.         10.04 CASE(S) Standard         10.04 (F=2, B=2), 12=-59         10.04	10.0 Lumber DOL 1.15 BC 0.46 Vert(C1) -0.25 6 >375 240
BCDL         10.0         Code         IRC2018/TPI2014         Matrix-R         Wind(LL)         0.13         6         >728         240         Weight: 31 lb         FT = 10%           LUMBER TOP CHORD         2x6 SPF No.2         This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP11.         This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP11.         NUALED" indicates 3-104 (0.148"x3") or 2-12d (0.148"x3.25") to enails per NDS guidlenes.           BACING TOP CHORD         Structural wood sheathing directly applied or 6-0-0 cc purlins, except end verticals.         NUALED" indicates 3-104 (0.148"x3") or 2-12d (0.148"x3.25") to enails per NDS guidlenes.         NUALED" indicates 3-104 (0.148"x3") or 2-12d (0.148"x3.25") to enails per NDS guidlenes.           BOT CHORD         Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.         Not All the LOAD CASE(S) Standard         Note of the truss are noted as front (F) or back (B).         LOAD CASE(S) Standard           10         Dead + R001 Live (balanced): Lumber Increase=1.15 Wax Upilf 5-771 (LC 8), 7=-115 (LC 5) Max Upilf 5-771 (LC 8), 7=-115 (LC 1) Max Grav 5=403 (LC 1), 7=505 (LC 1) TOP CHORD         Standard         NUMBER (F=-29, B=-29)         JUAN           Vert: 9-=18 (F=-9, B=-9), 10=4 (F=2, B=2), 12=-59 (F=-29, B=-29)         NUMBER E-2000162101         FT = 2000162101         NUMBER E-2000162101 <td>0.0* Rep Stress Incr NO WB 0.02 Horz(C1) 0.10 5 n/a n/a</td>	0.0* Rep Stress Incr NO WB 0.02 Horz(C1) 0.10 5 n/a n/a
LUMBER       7) This truss is designed in accordance with the 2018         TOP CHORD       2x6 SPF No.2         BCT CHORD       2x4 SPF No.2         2x6 SPF No.2 "Except" 4-5:2x3 SPF No.2, 6-3:2x4 SPF No.2, 6-3:2x4 SPF No.2, 6-3:2x4 SPF No.2         BRACING         TOP CHORD         Structural wood sheathing directly applied or 6-0-0 oc bracing.         BOT CHORD         REACTIONS         (size)       5 = Mechanical, 7=0-4-9         Max Horiz       7=115 (LC 5)         Max Horiz       7=115 (LC 5)         Max Grav       5=403 (LC 1), 7=505 (LC 1)         TOP CHORD       2-7=-481/136, 1-2=0/29, 2-3=-137/19, 3-4=-156/19, 4-5=-291/107         BOT CHORD       6-7-3/7	10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.13 6 >728 240 Weight: 31 lb FT = 10%
<ul> <li>NOTES</li> <li>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) exterior zone; cantilever left and right exposed; umber DOL=1.60 plate grip DOL=1.60</li> <li>2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>3) * 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>4) All bearings are assumed to be SPF No.2.</li> <li>5) Refer to girder(s) for truss to truss connections.</li> <li>6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint</li> </ul>	<ul> <li>di SPF No.2</li> <li>di SPF No.2</li> <li>di SPF No.2</li> <li>di SPF No.2</li> <li>SZK SPF No.2</li> <li>SZK SPF No.2</li> <li>Thutmational Registed in accordance with the 2018 International Registed standard ANS/TP11.</li> <li>NMLED' Indicates 3-10d (0.148 x37) or 2-12d (0.148 x325) (be-nails per NDS guildines.</li> <li>in the LOAD CASE(S) section, loads applied to the face of the trusts are noted as front (F) or back (B).</li> <li>DOAD CASE(S) Standard</li> <li>Dead + Root Live (Balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (Up/1) vert: 12–e70, 24=-70, 67=-20, 3-5=-20 Concentrated Loads (Ib) Vert: 32–115 (LC 6), x Lpilt 5=-71 (LC 8), 7=-115 (LC 4) w Korav 5=-403 (LC 1), 7=505 (LC 1)</li> <li>b) Maximum Compression/Maximum ension 7-r=481/136, 1-2=0/29, 2-3=-137/19, -4=-156/19, 4-5=-2381/107 7-r=47/0, 3-5=-19/91</li> <li>d-B-OT Z</li> <li>r16; Vult-115mph (3-second gust) 1: Lomber DOL=1.60 plate grip DOL=1.60 been designed for a live loads to forth u and right exposed: end vertical left and 1: Lumber DOL=1.60 plate grip DOL=1.60 been designed for a live loads of 20.0pst chord in all areas where a rectangle y 20-00- wide lift between the bottom y other members.</li> <li>re assumed to be SPF No.2.</li> <li>r(f) for truss to truss to truss connections. anical connection (by others) of truss to capable of withstanding 115 lb up/lift at joint.</li> </ul>





						RELEASE FOR CONSTRUCTION	
loh	Truce		Otv	DIV	Lot 116 MN	AS NOTED FOR PLAN REVIEW	
300	Truss	Truss Type	Qly Ply			DEVELOPMENT SERVICES	
240612	J4	Jack-Open	8	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI	
	•			•			

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Thu Mar 71484 O2/2924 ID:jbu4Q2qcqFnefobcSC6TCAzyQYV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGr WrCDoi7942J04







3x10 🛛

1-10-3

Scale = 1:23

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

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)	0.00	4-5	>999	360	MT20	197/144
TCDL		10.0	Lumber DOL	1.15	BC	0.02	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: 6 lb	FT = 10%
				7) This truss is	designed in accord	dance w	ith the 2018	nd					
	2X4 SPF	NO.Z		R802 10 2 a	nd referenced stan		ISI/TDI 1	inu					
MERS		NO.Z			Stondard		101/11/11						
	284 366	110.2		LOAD CASE(S)	Stanuaru								
	Structure	lwood obo	othing directly opplic	dor									
TOP CHORD	1-10-3 oc putins. except end verticals.												
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 or	<b>`</b>									
	bracing.										MIS		
REACTIONS	(size)	3= Mecha	nical, 4= Mechanica	al,								NYE	Sol
	Max Hariz	5=0-3-8	5)								2	18	
	Max Liplift	328 (1 C	5) 8) 532 (I C A)								-0	2 . III	IN 2
	Max Grav	3-41 (LC	1) 4-30 (I C 3) 5-1	169							-	: GAR	CIA
		(LC 1)	1), 4=00 (20 0), 0=	105							<b>=</b> *	GAN	
FORCES	(lb) - Max	timum Com	pression/Maximum								=	1	i _ =
	Tension										=7	NUM	BER :
TOP CHORD	2-5=-148	/46, 1-2=0/2	27, 2-3=-31/11									C. E-20001	162101 :4
BOT CHORD	4-5=0/0										-	A	121
NOTES											1	1.00.	GN
1) Wind: ASC	CE 7-16; Vu	llt=115mph	(3-second gust)									I,ONI	ALENN
Vasd=91n	nph; TCDL=	6.0psf; BC	DL=6.0psf; h=25ft; 0	Cat.								- 1111	inn
II; Exp C;	Enclosed; N	/IVVFRS (en	ivelope) exterior zor	1e;									
right expo	sed: Lumbe		; end ventical left and $0$ plate grip DOI =1.6	u 30								anni 1	IIIII.
2) This truss	has been d	lesigned for	a 10.0 nsf bottom	50								IN IAN	GARC
chord live	load nonco	ncurrent wit	th any other live load	ds.								N 30	····· A .
3) * This trus	s has been	designed for	or a live load of 20.0	psf								CE	NSED
on the bot	tom chord in	n all areas v	where a rectangle								-	1 / Y	
3-06-00 ta	all by 2-00-0	0 wide will f	fit between the botto	m							-	1.1	
chord and	chord and any other members.									952 =			
4) All bearing	gs are assur	med to be S	SPF No.2 .								-	T	
5) Refer to g	irder(s) for	truss to trus	ss connections.	-							-	D.	
booring pl	echanical c	onnection (	by others) of truss to	0 pint								- Cart Harry	10 NS
5 and 28 l	h unlift at in	int 3	iung oz in upint at je	JIIIL								1.00	GN
	~ spint at jo											IN ON	ALENIN
												1111	IIIIII.
												Mar	ch 7 2024

- chord and any other members. 4) All bearings are assumed to be SPF No.2 .
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 5 and 28 lb uplift at joint 3.



March 7,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 colleges 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

						RELEASE FOR CONSTRUCTION	
lob	Trues		Otv	DIV	Lot 116 MN	AS NOTED FOR PLAN REVIEW	
360	11035			i iy		DEVELOPMENT SERVICES	
240612	J5	Jack-Open	2	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI	
		•	•	-		0.1/0.0/0.001	

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Thu Mar 0148:402/20:24 ID:mUIIZA?11sgWy6EUqst?JIzyQYG-RfC?PsB70Hq3NSgPqnL8w3uITXbGH WrCDoi73-2JO?





Scale = 1:33.8

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

Loading TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	18/TPI2014	CSI TC BC WB Matrix-S	0.15 0.13 0.01	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.02 0.02 0.02	(loc) 3-6 3-6 5 3-6	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 13 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF N 2x4 SPF N 2x4 SPF N Structural 3-10-3 oc Rigid ceili bracing. (size)	No.2 No.2 No.2 *Exce wood shea purlins, ex ng directly 4= Mecha	pt* 7-6:2x3 SPF No athing directly applie ccept end verticals. applied or 10-0-0 oc nical, 5= Mechanica	7 2 <b>L</b> d or	<ul> <li>This truss is of International R802.10.2 ar</li> <li>OAD CASE(S)</li> </ul>	designed in accord Residential Code s Id referenced stand Standard	ance w ections lard AN	ith the 2018 ⊧ R502.11.1 a ISI/TPI 1.	nd				NIL OF A	115 118
FORCES TOP CHORD BOT CHORD	Max Horiz Max Uplift Max Grav (lb) - Maxi Tension 2-8=-244/3 7-8=0/0,5	8=0-3-8 8=68 (LC 4=-48 (LC 4=105 (LC (LC 1) imum Com 51, 1-2=0/2 3-6=0/0, 5-6	8) 8), 8=-26 (LC 8) 2 1), 5=76 (LC 3), 8= pression/Maximum 27, 2-3=-72/0, 3-4=-3 3=0/0	257 33/33								Min * Phin	JUA GARC NUME E-20001	N CIA 62101
<ul> <li>NOTES</li> <li>1) Wind: ASC Vasd=91n II; Exp C; cantilever right expo:</li> <li>2) This truss chord live</li> <li>3) * This truss on the bot 3-06-00 ta chord and</li> <li>4) All bearing</li> <li>5) Refer to gi</li> <li>6) Provide m bearing plase and 48 II</li> </ul>	CE 7-16; Vul nph; TCDL= Enclosed; M left and righ sed; Lumbei has been de load noncor is has been de l	It=115mph 6.0psf; BCl WFRS (en t exposed r DOL=1.60 esigned for neurrent wit designed for neurent wit designed for neurren	(3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto SPF No.2. ss connections. by others) of truss to ding 26 lb uplift at jo	cat. e; f i0 ls. psf m								. annua.	PROCESSION	ARCIA SARCIA SAS SAS ALENGII

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



						0.1/00/0001
240612	J6	Jack-Open	4	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
300	11055	Truss Type	QIY	гіу		DEVELOPMENT SERVICES
leb	Trucc		011	DIV	Lot 116 MN	AS NOTED FOR PLAN REVIEW
						RELEASE FOR CONSTRUCTION

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. hu Mar 0143 02/2022 01/2022



Scale = 1:34.5

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

	( ) ) []											
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	0.46	Vert(LL)	-0.07	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.14	5-6	>500	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.08	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	5-6	>854	240	Weiaht: 18 lb	FT = 10%
					-		-				0	
LUMBER			<ol><li>This truss is</li></ol>	designed in acco	rdance wi	ith the 2018						
TOP CHORD	2x4 SPF No.2		Internationa	Residential Code	esections	R502.11.1 a	and					
BOT CHORD	2x4 SPF No.2		R802.10.2 a	nd referenced sta	indard AN	ISI/TPI 1.						
WEBS	2x4 SPF No.2 *Exce	ept* 7-6:2x3 SPF No.	2 LOAD CASE(S)	Standard								
BRACING												
TOP CHORD	Structural wood she	eathing directly applie	d or									
	5-11-4 oc purlins, e	except end verticals.										
BOT CHORD	Rigid ceiling directly bracing.	/ applied or 10-0-0 oc									WE	MICH
REACTIONS	(size) 4= Mecha 8=0-3-8	anical, 5= Mechanica	I,								NYE.	SSO!
	Max Horiz 8=104 (L	C 8)								-	Y	-
	Max Uplift 4=-80 (LC	C 8), 8=-34 (LC 8)								20	JUA	N :==
	Max Grav 4=172 (L	C 1), 5=111 (LC 3), 8	s=351							= .	: GAR	
	(LC 1)									- *		× -
FORCES	(lb) - Maximum Con	npression/Maximum								=	1	
	Tension									=7	NUME	BER :
TOP CHORD	2-8=-350/68, 1-2=0/	/27, 2-3=-114/0,									C: E-20001	62101 :41
	3-4=-62/54	C 0/0								1	A	1.2.1
MERS	7-8=0/0, 3-6=0/0, 5-	-6=0/0									1.80	Gin
WEB3	0-7=-10/51										I,ONA	LENN
NOIES		(2 accord such)									- 1111	inn.
I) Wind: ASC	DE 7-16; Vuit=115mpr	1 (3-second gust)	`ot									
II: Evp C:	Enclosed: MWERS (e)	nvelope) exterior zon	ο.									$u_{III}$
cantilever	left and right exposed	end vertical left and	4								IN AN C	SARC
right expo	sed; Lumber DOL=1.6	50 plate grip DOL=1.6	50								N 70	A
2) This truss	has been designed fo	or a 10.0 psf bottom									CE	NSED.
chord live	load nonconcurrent w	ith any other live load	ds.								( / Č	- TA - E
3) * This trus	s has been designed	for a live load of 20.0	psf							-	1	
on the bot	tom chord in all areas	where a rectangle								-	169	952
3-06-00 ta	all by 2-00-00 wide will	fit between the botto	m							=	D	
<ol> <li>All bearing</li> </ol>	any other members.	SPE No 2								-	D.	h
5) Refer to a	irder(s) for truss to tru	uss connections									- A KAN	
6) Provide m	echanical connection	(by others) of truss to	)								1,58	G
bearing pl	ate capable of withsta	nding 34 lb uplift at ic	pint								ON ON	ALEN
8 and 80 I	b uplift at joint 4.										1111	IIIII.
											Marc	ch 7,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 colleges 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, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



							RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type		Qty	Ply	Lot 116 MN	AS NOTED FOR PLAN REVIEW
240612	J7	Jack-Open		18	1	Job Reference (optional	I64102276 LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS - 6	66871,		Run: 8.73 S Feb 22 2 ID:1hke2SliBoQp24k	2024 Print: 8 74gwBJMyK	.730 S Feb 2 yAb-RfC?PsE	2 2024 MiTek Industries, Inc. B70Hq3NSgPqnL8w3uITXbGK	hu Mar 0146.402/2024 WrCDoi7942J0?/
		-0-10-8		5-11-4			
		0-10-8		5-11-4			



Scale = 1:26.6

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

(	, , , , , , , , , , , , , , , , , , , ,												
<b>Loading</b> 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 IRC2018/TPI2014	CSI TC BC WB Matrix-R	0.52 0.31 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.05 -0.11 0.04 0.05	(loc) 4-5 4-5 3 4-5	l/defl >999 >613 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 16 lb	<b>GRIP</b> 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she 5-11-4 oc purlins, e	athing directly applic xcept end verticals.	7) This truss i Internation: R802.10.2 LOAD CASE(S	s designed in acco al Residential Code and referenced sta and standard	rdance wi e sections andard AN	ith the 2018 i R502.11.1 a ISI/TPI 1.	ind						
BOT CHORD	Rigid ceiling directly bracing. (size) 3= Mecha 5=0-3-8 Max Horiz 5=104 (LC Max Uplift 3=-92 (LC Max Grav 3=180 (LC (LC 1)	applied or 10-0-0 o anical, 4= Mechanica C 8) C 8), 5=-43 (LC 8) C 1), 4=108 (LC 3), 5	c al, 5=336							****	ALE OF		
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: ASO Vasd=91m II; Exp C; I	(lb) - Maximum Com Tension 2-5=-292/97, 1-2=0/ 4-5=0/0 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er	pression/Maximum 27, 2-3=-95/54 (3-second gust) IDL=6.0psf; h=25ff; ( hvelope) exterior zon	Cat. ne;							PHON	NUMI E-20001	BER 62101	nin.
<ul> <li>cantilever right exposi- chord live</li> <li>This truss chord live</li> <li>* This trus on the bot 3-06-00 ta chord and</li> <li>All bearing</li> </ul>	left and right exposed sed; Lumber DOL=1.6 has been designed for load nonconcurrent wi s has been designed f tom chord in all areas II by 2-00-00 wide will any other members.	; end vertical left an 0 plate grip DOL=1. r a 10.0 psf bottom ith any other live loa for a live load of 20.0 where a rectangle fit between the botto SPE No 2	d 60 ds. Dpsf om							unu.	UCE 16	952	

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 5 and 92 lb uplift at joint 3.



March 7,2024

NONAL ENGLISH

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Scale = 1:39.2

Loading	(psf) 25.0	Spacing Plate Grip DOI	2-0-0 1 15		CSI TC	0 45	DEFL Vert(LL)	in -0.03	(loc) 5-6	l/defl >999	L/d 360	PLATES MT20	<b>GRIP</b> 197/144
TCDL	10.0	Lumber DOL	1.15		BC	0.31	Vert(CT)	-0.05	5-6	>999	240	11120	10//111
BCLL	0.0*	Rep Stress Incr	NO		WB	0.22	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/	TPI2014	Matrix-S		Wind(LL)	0.02	5-6	>999	240	Weight: 28 lb	FT = 10%
LUMBER	· ·		8)	"NAILED" ind	licates 3-10d (0.14	l8"x3") c	or 2-12d						
TOP CHORD	2x4 SPF No.2			(0.148"x3.25'	) toe-nails per ND	S guidli	nes.						
BOT CHORD	2x4 SPF No.2		9)	In the LOAD	CASE(S) section,	loads a	pplied to the f	ace					
WEBS	2x3 SPF No.2 *Exce	ept* 7-2:2x4 SPF No.2	2 104		Stondard	r) or ba	СК (Б).						
BRACING			LUA 1)	Dead + Roo	f Live (balanced).	Lumber	Increase-1	15					
TOP CHORD		cent end verticals	or ')	Plate Increa	se=1.15	Lumber	mercase=1.	10,					
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc		Uniform Loa	ids (lb/ft)								
	bracing.			Vert: 1-2=	-70, 2-4=-70, 5-7	=-20							
REACTIONS	(size) 5= Mecha	anical, 7=0-4-9		Concentrate	ed Loads (lb)								1117.
	Max Horiz 7=134 (LC	C 5)		Vert: 9=-2	26 (F=-13, B=-13),	10=4 (F	<sup>=</sup> =2, B=2), 11	=-28				NE OF I	MISSI
	Max Uplift 5=-95 (LC	C 8), 7=-130 (LC 4)		(F=-14, B	=-14)						1	A	0,4
	Max Grav 5=387 (L0	C 1), 7=481 (LC 1)									2	A	P -
FORCES	(lb) - Maximum Corr Tension	npression/Maximum									Ξ.	GAR	
TOP CHORD	2-7=-413/145, 1-2=0	0/27, 2-3=-531/99, 34/56									- *		*=
BOT CHORD	6-7=-127/443, 5-6=-	127/443									= 0	. NILINAE	
WEBS	3-6=0/171, 3-5=-470	0/140									= 5		
NOTES												E-20001	02101
1) Wind: ASC	CE 7-16; Vult=115mph	(3-second gust)									1	£	- GAN
Vasd=91m	nph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; C	at.									1.S/ONIA	ENIN
II; Exp C; I	Enclosed; MWFRS (er	nvelope) exterior zone	е;									1111	itil .
right expos	sed Lumber DOI –1 6	, enu venicai ien anu 0 plate grip DOI –1 6	0										
2) This truss	has been designed fo	r a 10.0 psf bottom	0										un.
chord live	load nonconcurrent wi	ith any other live load	s.									IN AN C	ARC
3) * This trus	s has been designed f	or a live load of 20.0p	osf									1 20	A
on the bot	tom chord in all areas	where a rectangle										UCE	NSED .
3-06-00 ta	II by 2-00-00 wide will	fit between the bottor	n								-		1 2
<ol> <li>All bearing</li> </ol>	any other members.	SPF No 2									-	1 100	
5) Refer to gi	irder(s) for truss to trus	ss connections.										169	952 : =
6) Provide m	echanical connection	(by others) of truss to									-	P: 1	
bearing pla	ate capable of withstar	nding 130 lb uplift at j	oint								-	20.	m:14:
7 and 95 lt	b uplift at joint 5.											AN	SAS
() I NIS TRUSS	is designed in accorda	ance with the 2018 ections R502 11 1 an	d									1, SION	AL ENGIN
R802.10.2	and referenced stand	lard ANSI/TPI 1.	4									11 N	AL
												More	b 7 2024
												iviarc	117,2024

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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 116 MN	
240612	J9	Jack-Open	2	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
	•					A 4 100 1000 1

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. hu Mar 014 + 02/2024 ID:JqnDVSPjX?qqPBGqGHzk8lzyQXI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl WrCDoi 04zJ0 + 02/2024





3-10-3

Scale = 1:24.8		_
Plata Offecte (V	V١٠	[E-0 E 9

Plate Offsets	(X, Y): [5:0-5-8,0-	1-8]											
Loading TCLL (roof) TCDL BCLL BCDL	(ps 25, 10, 0, 10,	f) Spacing 0 Plate Grip DOL 0 Lumber DOL 0* Rep Stress Incr 0 Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	<b>CSI</b> TC BC WB Matrix-R	0.19 0.12 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.02 0.01 0.01	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 11 lb	<b>GRIP</b> 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood 3-10-3 oc purlin Rigid ceiling diru bracing. (size) 3= M 5=0-3 Max Horiz 5=68 Max Uplift 3=-60 Max Grav 3=11	sheathing directly appl s, except end verticals ectly applied or 10-0-0 echanical, 4= Mechanic I-8 (LC 8) (LC 8), 5=-33 (LC 8) 2 (LC 1), 4=68 (LC 3), 5	7) This truss i Internation R802.10.2 LOAD CASE(S ied or	s designed in acco al Residential Cod and referenced sta ) Standard	ordance wi le sections andard AN	ith the 2018 R502.11.1 ; ISI/TPI 1.	and				JU/ GAR	MISSOUR AN CIA	
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: AS Vasd=911 II; Exp C; cantilever right expc chord live 3) * This trus on the bo 3-06-00 t chord and 4) All bearin 5) Refer to g 6) Provide n bearing p 5 and 60	(Ib) - Maximum Tension 2-5=-215/69, 1-: 4-5=0/0 CE 7-16; Vult=115 mph; TCDL=6.0psf Enclosed; MWFR3 left and right expo sed; Lumber DOL s has been design tom chord in all ar all by 2-00-00 wide d any other membe gs are assumed to jirder(s) for truss t nechanical connect late capable of with lb uplift at joint 3.	, Compression/Maximum 2=0/27, 2-3=-61/33 mph (3-second gust) ; BCDL=6.0psf; h=25ft; S (envelope) exterior zc sed ; end vertical left ai =1.60 plate grip DOL=1 d for a 10.0 psf bottom nt with any other live loa d for a 10.0 psf bottom nt with any other live loa d for a live load of 20. eas where a rectangle will fit between the bott rs. be SPF No.2 . o truss connections. ion (by others) of truss istanding 33 lb uplift at	Cat. one; nd .60 ads. Opsf tom to joint								NUM E-2000 SS/ON UAN CE 16	BER 162101 ALENGIN NSEO 952 Halengin	



March 7,2024

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Plate Offsets	(X, Y):	[3:0-1-13.Edge], [5:0-5-8.0-1-8]

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	0.45	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.09	4-5	>749	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: 18 lb	FT = 10%
LUMBER			LOAD CASE(S	) Standard								

LUMBER TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 \*Except\* 3-4:2x3 SPF No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 4= Mechanical, 5=0-3-8 Max Horiz 5=135 (LC 5) Max Uplift 4=-61 (LC 8), 5=-58 (LC 8) Max Grav 4=250 (LC 1), 5=334 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 2-5=-292/104, 1-2=0/27, 2-3=-140/33, 3-4=-178/84

#### BOT CHORD

#### 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) 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.
- 4) All bearings are assumed to be SPF No.2

4-5=-37/38

- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 5 and 61 lb uplift at joint 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.

JUAN GARCIA D NUMBER E-2000162101 S S/ONAL ENGINE 16952 D NAN SAS ONAL ENGINE March 7,2024

MIS

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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 116 MN	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
240612	J11	Diagonal Hip Girder	2	1	Job Reference (optional	I64102280 LEE'S SUMMIT, MISSOURI
		•				0.1/00/0001

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. hu Mar 014 + 02/2022 00:101/2020 - 24 ID:rzoXwxFY\_MenCOesJWofYVzdKrf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGI WrCDoi 042/02/2022





5-5-5

Scale = 1:35

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 (roof)	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.06	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/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 16 lb	FT = 10%
						( )					0	
LUMBER			8) "NAILED" i	ndicates 3-10d (0.1	48"x3") c	or 2-12d						
TOP CHORD	2x4 SPF No.2		(0.148"x3.2	5") toe-nails per N	DS guidlii	nes.						
BOT CHORD	2x4 SPF No.2		9) In the LOA	D CASE(S) section	, loads ap	oplied to the	face					
WEBS	2x4 SPF No.2 *Exce	pt* 3-4:2x3 SPF No.	2 of the truss	are noted as front	(F) or ba	ck (B).						
BRACING			LOAD CASE(S	) Standard								
TOP CHORD	Structural wood shea	athing directly applie	d or 1) Dead + R	oof Live (balanced)	: Lumber	Increase=1.	.15,					
	5-5-5 oc purlins, exe	cept end verticals.	Plate Incr	ease=1.15								
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	Uniform L	oads (lb/ft)								111.
	bracing.		Vert: 1-	2=-70, 2-3=-70, 4-	5=-20						VI OF I	MIG
REACTIONS	(size) 4= Mecha	inical, 5=0-4-9	Concentra	ated Loads (Ib)							NE	Sol
	Max Horiz 5=98 (LC	5)	vert: /=	=4 (F=2, B=2)							· ····	
	Max Uplift 4=-48 (LC	3), 5=-102 (LC 4)								-	2	
	Max Grav 4=219 (LC	C 1), 5=342 (LC 1)								-	JUA	
FORCES	(lb) - Maximum Com	pression/Maximum								- +	GAR	
	Tension										:	: ^ <b>I</b>
TOP CHORD	2-5=-302/140, 1-2=0	)/27, 2-3=-126/14,								= 11		· · · ·
	3-4=-158/71										NUME	BER :41
BOT CHORD	4-5=-26/49									-	E-20001	62101
NOTES										1	A	
1) Wind: AS	CE 7-16; Vult=115mph	(3-second gust)									1. So	
Vasd=91r	mph; TCDL=6.0psf; BC	DL=6.0psf; h=25ft; C	at.								ONA	LEIN
II; Exp C;	Enclosed; MWFRS (en	velope) exterior zon	e;									inn.
cantilever	rieft and right exposed	; end vertical left and										
2) This trues	bac been designed for	o plate grip DOL=1.6	0									un,
2) This truss	load popoopourront wi	th any other live lead	le.								I AN C	ARC
3) * This true	s has been designed for	or a live load of 20.0	nsf								N. 70	····· A .
on the bo	ttom chord in all areas	where a rectangle	551								CE	NSE
3-06-00 ta	all by 2-00-00 wide will	fit between the botto	m							-		
chord and	any other members.										1	A 2
4) All bearing	gs are assumed to be S	SPF No.2 .									160	252
5) Refer to g	girder(s) for truss to trus	s connections.								-	10.	552
6) Provide m	nechanical connection (	(by others) of truss to	)							-	PT:	
bearing p	late capable of withstar	nding 102 lb uplift at j	joint								0	Millis .
5 and 48	lb uplift at joint 4.										AN	SAS
7) This truss	s is designed in accorda	ance with the 2018									1, PSIC	ENGIN
Internatio	nal Residential Code se	ections R502.11.1 ar	nd								ON	ALL
R802.10.2	2 and referenced stand	ard ANSI/TPI 1.										

- 5 and 48 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 7) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

March 7,2024

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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Otv	Plv	Lot 116 MN	AS NOTED FOR PLAN REVIEW
000	11400		QUY	,		DEVELOPMENT SERVICES
240612	J12	Jack-Open	8	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS -	66871,	Run: 8.73 S Feb 22 2	2024 Print: 8.	730 S Feb 2	2 2024 MiTek Industries, Inc.	

ID:Bf3?Pq61pg7UmYjZc?ar3zzdKrr-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7JazdC?r





	L	3-1	1-4
Scale = 1:24.9	Γ		
Plate Offsets (X, Y): [5:0-5-8,0-1-8]			

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 IRC2018/TPI2014	<b>CSI</b> TC BC WB Matrix-R	0.20 0.12 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.02 0.01 0.01	(loc) 4-5 4-5 3 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	<b>PLATES</b> MT20 Weight: 11 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No 2x4 SPF No 2x4 SPF No Structural w 3-11-4 oc pu Rigid ceiling bracing. (size) 3- 5- Max Horiz 5- Max Horiz 5- Max Uplift 3- Max Grav 3- (1)	.2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	athing directly applie ccept end verticals. applied or 10-0-0 oc nical, 4= Mechanica 8) 8), 5=-34 (LC 8) 1), 4=70 (LC 3), 5=	7) This truss is International R802.10.2 at <b>LOAD CASE(S)</b> ed or	designed in accorda Residential Code se nd referenced stand Standard	ance wi ections ard AN	ith the 2018 R502.11.1 ai	nd			*	JUA GAR	MISSOURIE
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=91m II; Exp C; I cantilever I right expos 2) This truss chord live 3) * This truss on the bott a chord and 4) All bearing 5) Refer to gi 6) Provide m bearing pla 5 and 61 lt	(lb) - Maxim Tension 2-5=-218/70 4-5=0/0 CE 7-16; Vult= ph; TCDL=6.0 Enclosed; MW left and right e sed; Lumber D has been desi load nonconct s has been de tom chord in a Il by 2-00-00 w any other mer s are assume rder(s) for tru- echanical com ate capable of o uplift at joint	um Comp , 1-2=0/2 115mph Dpsf; BCI (FRS (en exposed ; 00L=1.60 igned for urrent wit signed for II areas v vide will f mbers. d to be S ss to trus nection (I withstan 3.	27, 2-3=-63/34 (3-second gust) DL=6.0psf; h=25ft; C velope) exterior zon end vertical left and 0 plate grip DOL=1.6 a 10.0 psf bottom h any other live load or a live load of 20.0 where a rectangle it between the botto SPF No.2 . ss connections. by others) of truss tr ding 34 lb uplift at jo	Cat. le; d 30 ds. psf im								NUME E-20001 SS/ONA JCEI 169 PROSCESSION	BER 62101 ALEN SARCIA NSEO

March 7,2024



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						RELEASE FOR CONSTRUCTION
loh	Truss	Truss Type	Otv	Plv	Lot 116 MN	AS NOTED FOR PLAN REVIEW
005	11033		Guy	1 19		DEVELOPMENT SERVICES
240612	LAY1	Lay-In Gable	1	1	Job Reference (optional)	LEE'S SUMMIT, MISSOURI

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. hu Mar 7148:402/2924 ID:Vtl0FomKy6ZgfEJKdORQsayKyAa-RfC?PsB70Hq3NSgPqnL8w3ulTXbGr WrCDoi w4zJ07



Scale = 1:60.3

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

						_										
<b>Loading</b> TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2	) 2018/TPI2014		CSI TC BC WB Matrix-S	0.12 0.05 0.13	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 126 lb	<b>GRIP</b> 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SPF N 2x4 SPF N 2x4 SPF N 2x4 SPF N Structural 6-0-0 oc p 2-0-0 oc p Rigid ceilir	lo.2 lo.2 lo.2 lo.2 lo.2 wood shea urlins, exo urlins, (6-0- ng directly	athing directly applie xept end verticals, a -0 max.): 9-15. applied or 10-0-0 od	ed or nd c	TOP CHORD BOT CHORD WEBS	1-: 4- 7- 10 13 1- 24 21 24 21 18 2-: 4-	2=-364/308, 2-3=- 5=-251/256, 5-6=- 8=-183/185, 8-9=- 0-11=-59/43, 11-12 3-14=-59/43, 14-15 28=-67/52, 27-28= 4-26=-67/52, 20-21 3-19=-67/52, 17-18 28=-161/150, 3-27 26=_162/186, 5-27 26=_162/186, 5-27 26=_162/186, 5-27 26=_162/186, 5-27 26=_170/186, 5-27 26=_170/186, 5-27 26=_170/186, 5-27 26=_170/186, 5-27 26=_170/1	311/26 102/10 96/84, 2=-59/4 =-67/52 4=-67/5 1=-67/5 3=-67/5 3=-67/5 3=-67/5 7=-167/	4, 3-4=-271/2 7, 6-7=-96/10 9-10=-59/43, 3, 12-13=-59, 3, 12-16=-53, , 26-27=-67/5 2, 22-23=-67/ 2, 19-20=-67/ 2, 16-17=-67/ 149, 162	248, 14, 143, 116 12, 152, 152, 152, 152	11) Pribe 1, joi lb joi 22 12) Th Int	ovide me aring plat 21 lb upli lift at join nt 24, 45 uplift at join t 20, 54 is truss is ernationa 02 10 2	chanic te capa ft at joi t 27, 1 lb uplit bint 18 lb uplit s desig and ref	al connection (by able of withstandi int 16, 13210 upi 61 lb upilitation that joint 23, 47 lb 34 lb upilitation that joint 21 and that joint 21 and that of accordance dential Code sect	others) of truss to ng 183 lb uplift at 1 at loint 28, 124 26 3 29 lb uplift at 1 uplift at goint 17, 19, 44 buplift at point 56 lb uplift at point e with the 2018 ions R502.11.1 a 4 ANS/TP11	o ijoint lb at 37 at
WEBS REACTIONS	bracing. 1 Row at r (size) Max Horiz Max Uplift	nidpt 1=23-4-9, 18=23-4-9 21=23-4-9 24=23-4-9 28=23-4-9 1=299 (LC 1=-183 (LC 21=-54 (LC 23=-45 (LC 26=-161 (I) 28=-132 (I)	5-24, 7-23 16=23-4-9, 17=23-4 , 19=23-4-9, 20=23 , 22=23-4-9, 23=23 , 26=23-4-9, 27=23 5 5) C 6), 16=-21 (LC 5), C 9), 18=-37 (LC 5), C 9), 20=-44 (LC 5), C 4), 22=-156 (LC 9) C 7), 24=-129 (LC 7) C 8), 27=-124 (LC C 8)	4-9, ;-4-9, ;-4-9, ;-4-9, ;-4-9, , ; , )), (7), 8),	NOTES 1) Unbalanced this design. 2) Wind: ASCI Vasd=91mp II; Exp C; E cantilever le right expose 3) Truss desig only. For st	4- 7- 13 11 8- d ro E 7 oh; ncl eft a ed; gne	22=-162/186, 5-22 23=-136/79, 14-17 3-18=-140/56, 12-1 1-20=-140/68, 10-2 22=-199/181 pof live loads have 7-16; Vult=115mph TCDL=6.0psf; BC losed; MWFRS (er and right exposed ; Lumber DOL=1.6 ed for wind loads i ls exposed to wind	H=-214/ Z=-146/ 19=-146/ 19=-146/ 21=-149/ 21=-149/ (0-140/ 10-140/ 10-140/ 10-140/ 10-140/ 10-140/ 10-140/ 10-140/ 10-140/ 10-140/ 10-140/ 10-146/	76, 5/58, 5/77, considered for ond gust) 0psf; h=25ft; ( e) exterior zon ertical left an grip DOL=1.6 ane of the tru al to the face)	Cat. le; d S0 ss	13) Gr or bo	aphical p the orien ttom choo CASE(S	rd. ) Sta	presentation and prime purification	Shot depict he s	iize
FORCES	Max Grav (Ib) - Maxin Tension	1=265 (LC 17=187 (L 19=180 (L 21=184 (L 23=169 (L 26=203 (L 28=207 (L mum Com	5), 16=69 (LC 1), C 22), 18=179 (LC C 22), 20=180 (LC C 16), 22=240 (LC C 15), 24=234 (LC C 15), 27=205 (LC C 15), 27=205 (LC C 15) pression/Maximum	1), 22), 16), 4), 15),	see Standa or consult q 4) Provide ade 5) All plates ar 6) Gable requi 7) Gable studs 8) This truss h chord live lc 9) * This truss on the botto 3-06-00 tall chord and a 10) All bearings	rd lua equ re 2 ires s sp as bad ha by any s ar	Industry Gable En lified building desi uate drainage to pr Zx4 MT20 unless c s continuous botto paced at 2-0-0 oc. been designed fo d nonconcurrent wi s been designed f chord in all areas c 2-00-00 wide will o other members. re assumed to be s	d Deta gner as event v otherwi m chor r a 10.0 ith any for a liv where fit betw SPF No	Is as applicate s per ANSI/TF vater ponding se indicated. d bearing. 0 psf bottom other live load e load of 20.0 a rectangle veen the botto 0,2.	ole, PI 1. J. ds. psf			. annua.	PROTOCOLO	ARCIA NSEO 952	ANNIHITS.



March 7,2024

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Job 240612 Wheeler Lumber, Waver	Truss LAY2 rly, KS - 66871,	Truss Type Lay-In Gable Run: 8.73 S F ID:9vTbYFfJxM	Qty 1 ieb 22 2024 Print: AojOlvmmtEbxiyk	Ply 1 8.730 S Fe SyiH-RfC?Ps	Lot 116 MN Job Reference (d b 22 2024 MiTek Industr B70Hq3NSgPqnL8w3ul	optional ries, Inc. <sup>–</sup> hu ITXbGKW rC	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164102283 LEE'S SUMMIT, MISSOURI
		8-8-1 8-8-1	3x4=		<u>17-1-0</u> 8-4-15	17-4-3 	
	9-5-0 4 4	3 13 <sup>12</sup> 1 3x4 * <sup>19</sup> 18 17		8	9 9 11 12	0 11 3x4	

17-4-3

Scale = 1:55.9

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

Loading		(psf)	Spacing	2-0-0		CSI	0.00	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (root)		25.0	Plate Grip DOL	1.15			0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
DOLL		10.0		1.15		BC	0.05	Vert(TL)	n/a	-	n/a	999		
BULL		0.0	Rep Stress Incr	TEO		VVB	0.11	HOUS(IL)	0.01	11	n/a	n/a		FT 400/
BCDL		10.0	Code	IRC201	8/1912014	Matrix-S							vveight: 92 lb	FT = 10%
	2x4 SPF No	2		W	EBS 2	2-19=-162/149, 3-1 -17=-172/174, 5-1	8=-165  6=-128	/151, /42.						
BOT CHORD	2x4 SPE No	). <u>2</u>			1	0-12=-162/149.9	-13=-16	4/150.						
OTHERS	2x4 SPF No	.2			8	-14=-176/177, 7-1	5=-103	/9						
BRACING	2.0.0.1.110			N	OTES									
TOP CHORD	Structural w	and she	athing directly applie	dor 1)	Unbalanced i	oof live loads hav	e been (	considered for	r					
	6-0-0 oc pu	rlins	annig anoony applie	u 01 · /	this design.									
BOT CHORD	Rigid ceiling	g directly	applied or 10-0-0 oc	2)	Wind: ASCE	7-16; Vult=115mp	h (3-sec	cond gust)	<b>`</b> +					un.
WEDO	1 Pow of mi	idet	E 16 7 1E			n, TCDL=0.0psi, B		(0) $(0)$	Jal.				NOF	MISSI
DEACTIONS			J-10, 7-15 44 47 40 40 47 4	2	cantilever left	and right expose	d · end v	ertical left an	d				NYE	
REACTIONS	(SIZE) I	=17-4-3, 2 17 4 2	11=17-4-3, 12=17-4	-3, 4 2	right exposed	: Lumber DOL=1.	60 plate	arip DOL=1.6	- 60			2	18	
	1	3=17-4-3	0, 14=17-4-3, 10=17- 0 17_17 4 2 10_17	4-3, 12 3)	Truss design	ed for wind loads	in the p	lane of the tru	ISS			-	0. 111	N
	1	0=17-4-3	, 17=17-4-3, 10=17-	4-3, -/	only. For stu	ds exposed to win	d (norm	al to the face)	).			-		
	Max Horiz 1	-212 (I C	5)		see Standard	Industry Gable E	nd Deta	ils as applicat	ble,			= *	GAR	
	Max Liplift 1	110 (LC	(10, 0)		or consult qu	alified building des	signer a	s per ANSI/TF	ข1.			-		
		2131 (L	(C 0), 11 = 01 (C 7), (C 0) 13 = 125 (C 0)	ລ) 4)	All plates are	2x4 MT20 unless	otherwi	se indicated.				= T	1	· · · ·
	1.	2= 101 (I 4=-153 (I	$ C  _{0}$ $ C   _{0}$ $ C   _{0}$ $ C   _{0}$ $ C   _{0}$ $ C   _{0}$ $ C   _{0}$ $ C   _{0}$ $ C   _{0}$ $ $	5), 5)	Gable require	es continuous botte	om chor	d bearing.					NUM	SER :41
	1	7=-149 (I	(103), 10=22 (103)	(, 3) 6)	Gable studs	spaced at 2-0-0 oc	<b>)</b> .	-				1	O: E-20001	62101
	1	9=-131 (I	LC 8)	7)	This truss ha	s been designed f	or a 10.0	0 psf bottom				1	A	
	Max Grav 1	=270 (1 C	(100)		chord live loa	d nonconcurrent v	vith any	other live load	ds.			- 0	·····	GN
	1:	2=208 (I	C 16) 13=203 (I C 1	(6) 8	* This truss h	as been designed	for a liv	e load of 20.0	)psf				IN ONL	LENN
	1	4=217 (L	.C 16), 15=137 (LC 1	(6).	on the bottom	n chord in all areas	s where	a rectangle					- 1111	inn's
	1	6=161 (L	.C 15), 17=214 (LC 1	(5).	3-06-00 tall b	y 2-00-00 wide wi	ll fit betv	veen the botto	om					
	1	8=203 (L	C 15), 19=207 (LC 1	5)	chord and an	y other members.							111.	1111.
FORCES	(lb) - Maxim	um Com	nression/Maximum	9)	All bearings a	are assumed to be	SPF No	o.2 .					AL AND	SAD
1011020	Tension		procolori/maximam	10	<ol> <li>Provide mech</li> </ol>	nanical connection	ı (by oth	ers) of truss to	0				NUAN	CIA
TOP CHORD	1-2=-382/20	)9 2-3=-2	259/161 3-4=-131/1	12	bearing plate	capable of withsta	anding 1	10 lb uplift at	joint				N CE	NSA
	4-5=-106/10	)5, 5-6=-5	50/71.6-7=-46/67.	•_,	1, 81 lb uplift	at joint 11, 131 lb	uplift at	joint 19, 126	lb			1		- O -
	7-8=-75/77	8-9=-112	2/75 9-10=-233/122		uplift at joint	18, 149 lb uplift at	joint 17,	22 lb uplift at	t			-		1
	10-11=-357/	/170		,	joint 16, 131	lb uplift at joint 12,	125 lb	uplift at joint 1	3			-	1	
BOT CHORD	1-19=-116/2	268, 18-1	9=-116/268.		and 153 lb up	olift at joint 14.						-	: 169	952 : =
	17-18=-116/	/268, 16-	17=-116/268,	11	<ol> <li>This truss is a</li> </ol>	designed in accord	dance w	ith the 2018				-	DI	1 :0-
	15-16=-116/	/268, 14-	15=-116/268,		International	Residential Code	sections	s K502.11.1 a	nd			1	<b>P</b> :	
	13-14=-116/	/268, 12-	13=-116/268,		R802.10.2 ar	id referenced stan	dard AN	ISI/TPL1.				10	- On the had	
	11-12=-116/	/268		L	DAD CASE(S)	Standard							1. Col MAN	Shi G
													1, SION	AL ENIN
													111.	and the second s
														1001

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March 7,2024

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						Г	RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 116 MN		AS NOTED FOR PLAN REVIEW
240612	LAY3	Lay-In Gable	1	1	Job Referer	nce (optional)	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Wave	erly, KS - 66871,	Run: ID:LC	8.73 S Feb 22 2024 Print: 0GJfTM8h0uSwkC3JHOhw	8.730 S Fel UzdKnf-RfC	b 22 2024 MiTek In C?PsB70Hq3NSgPo	ndustries, Inc. Thu M qnL8w3uITXbCiKW	Mar 0145:102/2024
		5-11-11	6-7-8 0-7-13		12-4-0 5-8-9	12-7-3 0-3-3	
			5x12 =				



Scale = 1:43.3

Plate Offsets (X, Y): [4:0-6-0,0-0-5]

<b>Loading</b> TCLL (roof) TCDL BCLL BCDL		(psf) 25.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	<b>CSI</b> TC BC WB Matrix-S	0.05 0.03 0.06	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	<b>PLATES</b> MT20 Weight: 60 lb	<b>GRIP</b> 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS	2x4 SPF 2x4 SPF 2x4 SPF 2x4 SPF 2x4 SPF 3tructura 6-0-0 oc ( 2-0-0 oc ( Rigid ceil bracing. (size) Max Horiz Max Horiz Max Uplift Max Grav (lb) - Max Tension 1-2=-18& 4-5=-31/1 7-8=-15& 1-14=-6& 12-13=-6i 10-11=-6i 2-14=-15'	No.2 *Exce No.2 No.2 No.2 I wood shea burlins, exc burlins, exc 1=12-7-3, 1=164 (LC 1=-63 (LC 1=-63 (LC 0), 10 5), 13=-13 1=132 (LC 9=204 (LC 11=111 (L 13=219 (L)) (L)) (L)) (L)) (L)) (L)) (L)) (L)	pt* 4-5:2x6 SPF No. athing directly applie tept -0 max.): 4-5. applied or 10-0-0 or 8=12-7-3, 9=12-7-3 8, 11=12-7-3, 12=12 8, 14=12-7-3 15) 6), 8=-29 (LC 7), 9: =-135 (LC 9), 12=-1 36 (LC 8), 14=-130 ( C 17), 8=-115 (LC 18 C 16), 10=218 (LC 11 C 17), 12=127 (LC pression/Maximum 129/99, 3-4=-104/14 5/119, 6-7=-94/54, =-68/133, =-68/133, 8-9=-68/1 =-178/162,	2 ad or 3 - 4 	<ul> <li>Wind: ASCE Vasd=91mpl II; Exp C; En cantilever lef right expose;</li> <li>Truss desigi only. For stu see Standarr or consult qu</li> <li>Provide adeq</li> <li>All plates are</li> <li>Gable requir</li> <li>Gable studs</li> <li>This truss ha chord live loa</li> <li>* This truss ha chord and ar</li> <li>All bearings</li> <li>All bearings</li> <li>Provide mec bearing plate</li> <li>1, 29 Ib uplifu uplift at joint joint 9 and 13</li> <li>This truss is International R802.10.2 ar</li> <li>Graphical pu or the orienta</li> </ul>	7-16; Vult=115mpl n; TCDL=6.0psf; BC closed; MWFRS (e t and right exposed t and right exposed t clumber DOL=1.4. hed for wind loads ds exposed to wind loads ds exposed to wind d industry Gable Er ialified building des yuate drainage to p 2x4 MT20 unless es continuous botts spaced at 2-0-0 oc s been designed for a nonconcurrent w has been designed for a nonconcurrent w has been designed will y other members. are assumed to be haciaable of withsta at joint 8, 130 lb up 13, 18 lb uplift at joint 1 designed in accord Residential Code s nd referenced stam- rlin representation at port key for the purlin a	h (3-sec CDL=6.	cond gust) Dpsf; h=25ft; ( a) exterior zoro rertical left an grip DOL=1. ane of the tru al to the face ils as applical is per ANSI/TF water ponding se indicated. d bearing. D psf bottom other live loa e load of 20.0 a rectangle ween the bottor o.2. ers) of truss t i3 lb uplift at j int 14, 136 lb 130 lb uplift at isth the 2018 is R502.11.1 a ISI/TP11. ot depict the se to pand/or	Cat. ne; d 60 iss ), ole, PI 1. J. ds. opsf om o t nd iss iss iss iss o o t n iss iss iss iss iss iss iss				JUA GAR S S S S ONA UAN C E-20001	MISSOUR N CIA BER 62101 U ALENG	
NOTES 1) Unbalance this desigr	4-12=-10: 5-11=-85, ed roof live l n.	2/41, 7-9=-` '8 loads have	160/148, 6-10=-177/ been considered for	<sup>/162,</sup> L	OAD CASE(S)	Standard						IIII.		ALENGIN	WHILE.



March 7,2024

Tek



R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD

BOT CHORD

FORCES

WFBS

NOTES

2)

3)

4)

5)

6)

7)

All bearings are assumed to be SPF No.2 .

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

Rigid ceiling directly applied or 10-0-0 oc



BAD TO STATE ONALENGI March

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MIS

JUAN

GARCIA

NUMBER

2000162101

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Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1 and 55 lb uplift at joint 3.

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MILLIN N



TOP CHORD 1-2=-56/37, 2-3=-119/55 BOT CHORD 1-3=-20/15

#### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=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) 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.
- Gable requires continuous bottom chord bearing. 3)
- Gable studs spaced at 4-0-0 oc. 4)
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 . 7)
- Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 22 lb uplift at joint 1 and 35 lb uplift at joint 3.

GARCIA NUMBER T F 2000162101 C 160 PROTOCOLOGICAL JOIN March



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						RELEASE FOR CONSTRUCTION
lah	Truco	Truco Tupo	0.54	DIV		AS NOTED FOR PLAN REVIEW
JOD	Thuss	Truss Type	Qly	Fiy	LOUTION	DEVELOPMENT SERVICES
240612	V4	Valley	1	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
L	•					

Run: 8.73 S Feb 22 2024 Print: 8.730 S Feb 22 2024 MiTek Industries, Inc. Thu Mar 0143: 02/2024 ID:gl31oaEvFtXxxAxZoYSGP\_yKxz3-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi702JCF

6x6 =









2x4 🚅



Scale = 1:16.9

Plate Offsets (X, Y): [2:Edge,0-1-15]

	(/(, 1): [2::Edg0,0	10]												
Loading	(ps	) Spa	acing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.	) Plat	te Grip DOL	1.15		TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.	) Lun	nber DOL	1.15		BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.	)* Rec	o Stress Incr	YES		WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.	Coc	de	IRC2018	/TPI2014	Matrix-P							Weight: 5 lb	FT = 10%
													-	
LUMBER				8)	Provide mech	nanical connectio	on (by othe	ers) of truss t	0					
TOP CHORD	2x4 SPF No.2				bearing plate	capable of withs	standing 9	ib uplift at jo	int 1					
BOT CHORD	2x4 SPF No.2			0)	and 15 lb upl	ift at joint 3.		all the 0040						
WEBS	2x3 SPF No.2			9)		designed in acco	rdance wi	Ith the 2018						
BRACING					International	Residential Code	e sections	R502.11.1 a	ind					
TOP CHORD	Structural wood	sheathing	g directly applied	dor	R802.10.2 ar	id referenced sta	indard AN	ISI/TPI 1.						
	2-3-4 oc purlins,	except e	end verticals.	LO	AD CASE(S)	Standard								
BOT CHORD	Rigid ceiling dire	ctly appli	ed or 10-0-0 oc											11.
	bracing.												VI OF I	MIG
REACTIONS	(size) 1=2-2	10, 3=2-	2-10										NE	S
	Max Horiz 1=26	LC 5)											17	
	Max Uplift 1=-9 (	LC 8), 3=	=-15 (LC 8)									- 0		N : P -
	Max Grav 1=64	LC 1), 3=	=64 (LC 1)									-	:	
FORCES	(lb) - Maximum (	Compress	sion/Maximum									:*	GAR	
	Tension	40/00											÷	
TOP CHORD	1-2=-23/15, 2-3=	-49/23										= 0	. NILINAT	
BOT CHORD	1-3=-9/6											- 1		SER :41
NOTES												- (	O∴ E-20001	62101
1) Wind: AS	CE 7-16; Vult=115	nph (3-se	econd gust)									-	A	
Vasd=91r	nph; TCDL=6.0psf	BCDL=6	6.0psf; h=25ft; C	at.									1. So	
II; Exp C;	Enclosed; MWFRS	(envelop	be) exterior zone	Э;									ON/	LEIN
cantilever	left and right expo	sea; ena	vertical left and	0										nn.
2) Truce do	sed, Lumber DOL	n.ou piai	e grip DOL=1.60											
2) Truss de:	signed for wind loa	ind (norr	piane of the face)	5									, unit	un,
see Stand	ard Industry Gable	End Det	ails as applicabl	۵									IN AN C	ARC
or consult	qualified building	lesigner a	as per ANSI/TPI	1									N 20	A
3) Gable reg	uires continuous b	ottom cho	ord bearing.										CE	NSED.
<ol> <li>Gable stu</li> </ol>	ds spaced at 4-0-0	OC.										-	. / Y	
5) This truss	has been designe	for a 10	0.0 psf bottom										1	1 - 1 - <b>2</b> -
chord live	load nonconcurrer	t with any	v other live load	s.									160	952
6) * This trus	s has been design	ed for a li	ive load of 20.0p	osf								=		
on the bot	ttom chord in all are	as where	e a rectangle									-	The last	4 155
3-06-00 ta	all by 2-00-00 wide	will fit bet	tween the bottor	n									0.	1 u · u ·
chord and	any other membe	s.											- AN	SAS
7) All bearing	gs are assumed to	be SPF N	No.2 .										1. SION	ENUN
													III ON	AL
													Marc	n 7,2024



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						RELEASE FOR CONSTRUCTION
Job	Truss	Truss Type	Qty	Ply	Lot 116 MN	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
240612	V5	Valley	1	1	Job Reference (optional	LEE'S SUMMIT, MISSOURI
Wheeler Lumber, Waverly, KS -	66871,	Run: 8.73 S Feb 22 2 ID:dgBnDFFAnUnfAT	2024 Print: 8. 5ywzVkVPył	.730 S Feb 2 Kxz1-RfC?Ps	2 2024 MiTek Industries, Inc. <sup>-</sup> B70Hq3NSgPqnL8w3uITXbG	hu Mar 0148,702/2024 (WrCDolfedzJEff
		3	-2-10			
					2x4 II	
	ω	5 T			2	φ

2x4 🚅

3

2x4 🛚

1

0-0-4

					3-2-1	0		4					
Scale = 1:18.6													
<b>Loading</b> 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 IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.10 0.05 0.00	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	<b>PLATES</b> MT20 Weight: 7 lb	<b>GRIP</b> 197/144 FT = 10%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2 Structural wood shea 3-3-4 oc purlins, exc Rigid ceiling directly bracing. (size) 1=3-2-10, Max Horiz 1=44 (LC Max Uplift 1=-16 (LC	athing directly applie sept end verticals. applied or 10-0-0 oc 3=3-2-10 5) 8), 3=-25 (LC 8)	9) This truss is Internationa R802.10.2 a LOAD CASE(S)	designed in accou l Residential Code nd referenced sta Standard	rdance w 9 sections ndard AN	ith the 2018 ; R502.11.1 ar ISI/TPI 1.	nd				IN E OF	MISSO	
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: AS( Vasd=91n II; Exp C; cantilever right expo 2) Truss des	Max Grav 1=109 (LC (lb) - Maximum Com Tension 1-2=-40/26, 2-3=-84/ 1-3=-14/11 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BCI Enclosed; MWFRS (en left and right exposed : sed; Lumber DOL=1.60 signed for wind loads in cude exposed to wind loads in	<ul> <li>21), 3=109 (LC 1)</li> <li>pression/Maximum</li> <li>'39</li> <li>(3-second gust)</li> <li>DL=6.0psf; h=25ft; C</li> <li>velope) exterior zon</li> <li>; end vertical left and</li> <li>D plate grip DOL=1.6</li> <li>the plane of the true</li> <li>(arrend te the foco)</li> </ul>	Cat. e; d S0 SS								D JU/ GAR NUMI E-2000	BER 62101	THEFT X
only. For see Stand or consult 3) Gable req 4) Gable stu 5) This truss chord live 6) * This truss on the bot 3-06-00 tz chord and 7) All bearing pl 1 and 25 l	studs exposed to wind and Industry Gable Enc qualified building desig uires continuous bottor ds spaced at 4-0-0 oc. has been designed for load nonconcurrent wii s has been designed for tom chord in all areas v III by 2-00-00 wide will f any other members. gs are assumed to be S echanical connection ( ate capable of withstan b uplift at joint 3.	(normal to the face) d Details as applicab gner as per ANSI/TP n chord bearing. a 10.0 psf bottom th any other live load or a live load of 20.0 where a rectangle fit between the botto SPF No.2 . by others) of truss to dding 16 lb uplift at jo	, le, l 1. ds. psf m oint							.111111	PROTOCION MAR	952 ALENO	LI CER HILL

- chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf 6) 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.

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									RELEAS	E FOR CONSTRUCTION
Job	Truss		Truss Type		Qty	Ply	Lot 116 M	N	AS NOT	ED FOR PLAN REVIEW
240612	V7		Valley		1	1	Job Refer	ence (optional	LEE'S	I64102291 SUMMIT, MISSOURI
Wheeler Lumber	r, Waverly, KS - 66871,		•	Run: 8.73 S Fe ID:7mfKFiwdL3	eb 22 2024 Print: EcTE4gELpKyoz	8.730 S Feb dKs4-RfC?F	22 2024 MiTek sB70Hq3NSgF	Industries, Inc. 1 qnL8w3uITXbGF	hu Mar (7) 146:5 WrCDoi794zJC?i	02/2024
			-		3-10-2		2x4	1		
	A.1.7.8	-0-0-	5				2	3	1-7-8	
				2x4 🚅			2x4	1		
Scale = 1:19.6			-		3-10-2					
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 25.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.16 Ver 0.09 Ver 0.00 Hor	FL t(LL) t(TL) iz(TL)	in (loc) n/a - n/a - 0.00 3	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 9 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF No.2 2x3 SPF No.2		9) This truss i Internationa R802.10.2 LOAD CASE(S	s designed in acco al Residential Cod and referenced sta i) Standard	ordance with th e sections R50 andard ANSI/T	e 2018 2.11.1 and PI 1.			-	
BRACING TOP CHORD BOT CHORD	Structural wood she 3-10-12 oc purlins, Rigid ceiling directly bracing	athing directly applie except end verticals. applied or 10-0-0 oc	d or							
REACTIONS	(size) 1=3-10-2, Max Horiz 1=56 (LC Max Uplift 1=-20 (LC Max Grav 1=137 (LC	3=3-10-2 5) 8), 3=-31 (LC 8) 2 1), 3=137 (LC 1)						\$	XATE OF	MISSO
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Com Tension 1-2=-50/33, 2-3=-10 1-3=-18/14	pression/Maximum 6/49						in the	GAF	AN RCIA
NOTES 1) Wind: ASC Vasd=91m	CE 7-16; Vult=115mph hph; TCDL=6.0psf; BC	(3-second gust) DL=6.0psf; h=25ft; C	cat.						NUM	IBER 162101

- 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) 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 requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc. 4)
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. All bearings are assumed to be SPF No.2 . 7)
- Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 20 lb uplift at joint 1 and 31 lb uplift at joint 3.

iii) SSIONAL ENGI 16952 Bonoscon Minsas March 7,2024 March 7,2024



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						RELEASE FOR CONSTRUCTION
lob	Truce	Truss Type	Otv	Plv	Lot 116 MN	AS NOTED FOR PLAN REVIEW
000	11033		Giy	1 19		DEVELOPMENT SERVICES
240612	V8 Valley 1 1		Job Reference (optional	LEE'S SUMMIT, MISSOURI		
Wheeler Lumber, Waverly, KS - (	Run: 8.73 S Feb 22 2	2024 Print: 8.	.730 S Feb 2	2 2024 MiTek Industries, Inc.		







1-10-2

0-9-8

4x8 =



Scale = 1:16.1

Plate Offsets (X, Y): [1:0-3-14 0-2-4]

Frate Offsets (A, T). [1.0-3-14,0-2-4]												
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 IRC2018/TPI2014	CSI TC BC WB Matrix-P	0.02 0.01 0.00	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	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: 4 lb	<b>GRIP</b> 197/144 FT = 10%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=91m II; Exp C; I cantilever right expos 2) Truss des only. For s see Stand or consult 3) Gable requ 4) Gable stuc 5) This truss chord live 6) * This truss on the bott 3-06-00 ta chord and 7) All bearing	2x4 SPF No.2 2x3 SPF No.2 2x3 SPF No.2 Structural wood she 1-10-12 oc purlins, Rigid ceiling directly bracing. (size) 1=1-10-2, Max Horiz 1=19 (LC Max Grav 1=47 (LC (lb) - Maximum Corr Tension 1-2=-17/11, 2-3=-36 1-3=-6/5 CE 7-16; Vult=115mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed sed; Lumber DOL=1.6 isigned for wind loads in studs exposed to wind ard Industry Gable En qualified building desi uires continuous botto ds spaced at 4-0-0 oc. has been designed fo load nonconcurrent wi s has been designed fo	athing directly applie except end verticals. applied or 10-0-0 oc 3=1-10-2 5) 8), 3=-11 (LC 8) 1), 3=47 (LC 1) apression/Maximum /17 (3-second gust) EDL=6.0psf; h=25ft; C avelope) exterior zon ; end vertical left and 0 plate grip DOL=1.6 n the plane of the trus I (normal to the face) d Details as applicab gner as per ANSI/TP m chord bearing. r a 10.0 psf bottom ith any other live load or a live load of 20.0 where a rectangle fit between the botto SPF No.2.	8) Provide m bearing pla and 11 lb ( 9) This truss Internation R802.10.2 LOAD CASE( c cat. e; d b cat. e; d sss , le, 11. ds. psf m	echanical connection ate capable of withs uplift at joint 3. Is designed in acco al Residential Code and referenced sta 5) Standard	on (by oth standing 7 ordance w e sections andard AN	ers) of truss to ' Ib uplift at joir ith the 2018 ; R502.11.1 an ISI/TPI 1.	ht 1 ad				DONE-20001 GAR NUMI E-20001 SS/ON ICE 160 SS/ON Marc	MISSOLD NCIA BER 62101 ALENO 3ARCIANSEO952SASO $4ALENOALENOALENOALENO$

16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

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