



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

08/21/2020

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

Re: 400477  
Lot 74 RR - Raising Hope House 2021

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I42521635 thru I42521745

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193

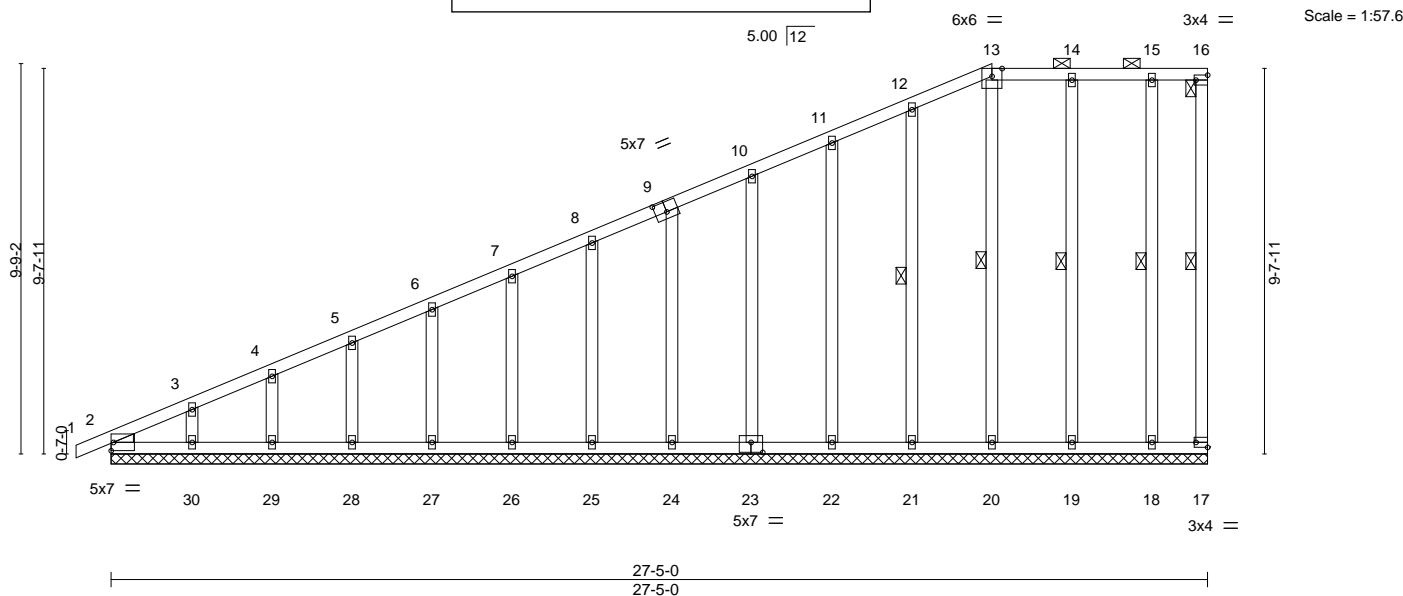


August 21, 2020

Sevier, Scott ,Engineer

**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 or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO 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.

Job 400477	Truss A1	Truss Type Half Hip Supported	<div style="text-align: center;"> <b>RELEASE FOR CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:45 2020 Page 1 ID:EjEWovY_94Pzt7UVy1gWAZ_t70-jTswsi2J4gJoyHLKfC76aCNTj8TOzj7zBKRkb8ylj5S
Wheeler Lumber, Waverly, KS 66871					
-0-10-8 0-10-8		22-0-5 22-0-5		27-5-0 5-4-11	



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.00	1	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	-0.01	17	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 160 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 13-16.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24.  
 WEBS 1 Row at midpt 16-17, 13-20, 12-21, 14-19, 15-18

#### REACTIONS.

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

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-364/37, 3-4=-315/30, 4-5=-291/28, 5-6=-266/25

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 19, 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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



16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> ID:EjEWovY_94Pzt7UVy1gWAZ_t70-BgPI323xr_RfaQwWDveL6QwZBYiui2W6P_At8aylj5R 08/21/2020		Ply	Lot 74 RR - Raising Hope House 2021	I42521636
400477	A2	Half Hip			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:46 2020 Page 1 13-2-12 08/21/2020 19-1-14 5-11-2 23-7-8 27-5-0 0-10-8 5-8-14 7-5-14 4-5-10 3-9-8				

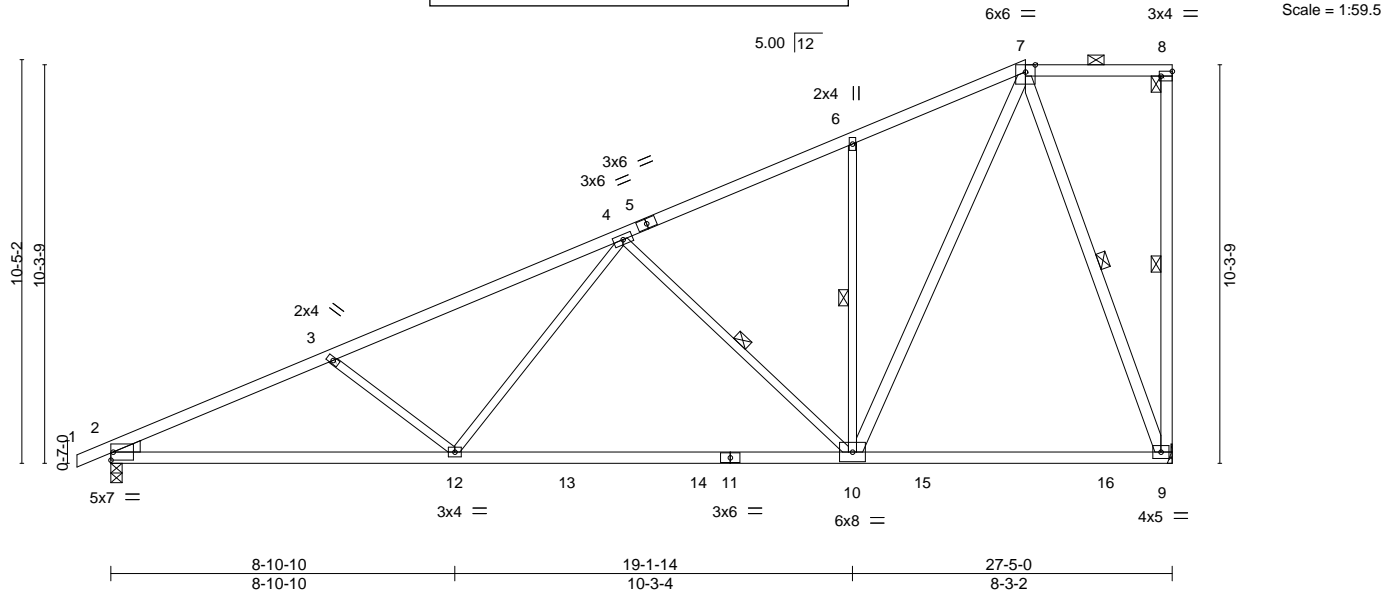


Plate Offsets (X,Y)-- [8:Edge,0-1-8]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.25 10-12	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.44 10-12	>737	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.05 9	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.08 12	>999	240
				<b>PLATES</b>	<b>GRIP</b>		
				MT20	197/144		
				Weight: 124 lb	FT = 10%		

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except*	WEBS 1 Row at midpt 8-9, 4-10, 6-10, 7-9
8-9,7-10,7-9: 2x4 SPF No.2	
<b>WEDGE</b>	
Left: 2x4 SPF No.2	

<b>REACTIONS.</b>	(size) 9=Mechanical, 2=0-3-8
	Max Horz 2=438(LC 5)
	Max Uplift 9=206(LC 8), 2=209(LC 8)
	Max Grav 9=1339(LC 2), 2=1351(LC 2)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2487/397, 3-4=-2228/319, 4-6=-1137/207, 6-7=-1098/296
BOT CHORD	2-12=-509/2212, 10-12=-296/1549, 9-10=-144/407
WEBS	3-12=-392/245, 4-12=-35/718, 4-10=-817/277, 6-10=-342/185, 7-10=-296/1386, 7-9=-1172/225

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=206, 2=209.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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			<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</div>					
Job	Truss	Truss Type	Ply			Lot 74 RR - Raising Hope House 2021		
400477	A3	Half Hip	1			I42521637		
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:47 2020 Page 1			Job Reference (optional)		
			ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-fszgHO4ZclZWBAUindAafdThVx1hRRtGeewRg1ylj5Q					
-0-10-8 2-3-8   7-1-13   13-4-0   9-1-13   25-2-11   27-5-0			08/21/2020					
0-10-8 2-3-8   4-10-5   6-2-4   5-9-13   6-0-15   2-2-5								

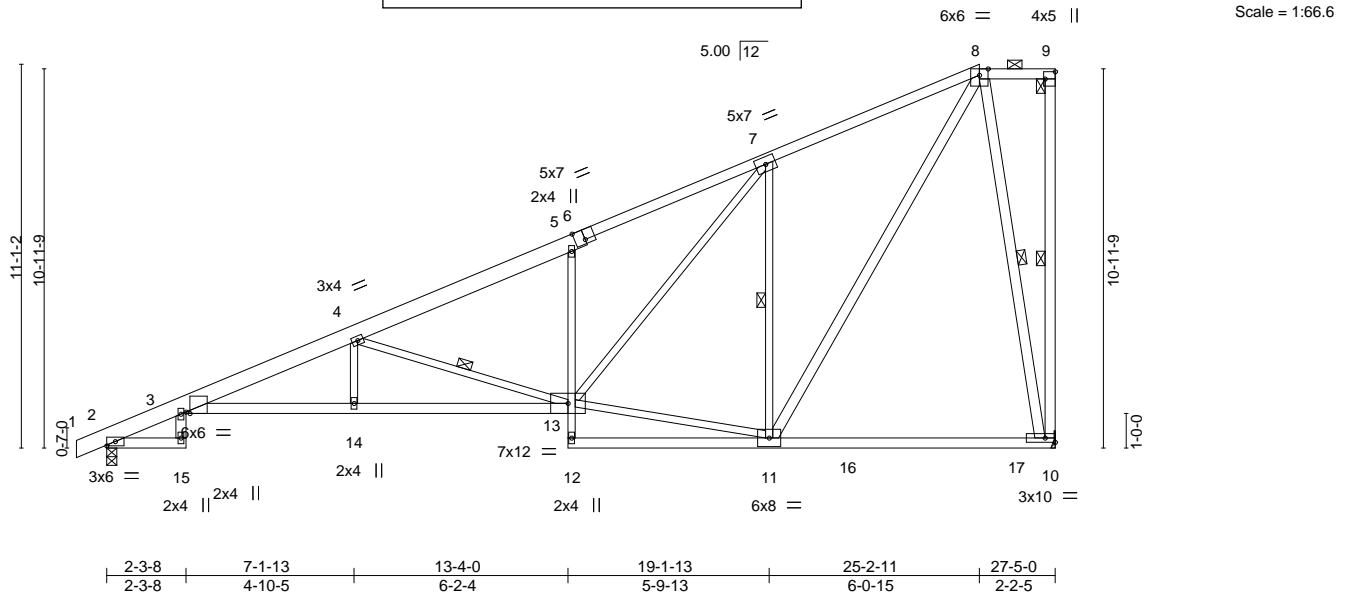


Plate Offsets (X,Y)-- [3:0-1-6,Edge], [6:0-3-8,Edge], [9:Edge,0-3-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.36 3-14	>909	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.63 3-14	>518	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.36 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.30 3-14	>999	240	Weight: 153 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2 *Except* 1-6: 2x6 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD 2x4 SPF No.2 *Except* 3-13: 2x4 SPF 2100F 1.8E, 5-12: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-4-4 oc bracing.
WEBS 2x3 SPF No.2 *Except* 9-10,3-15,8-11,8-10: 2x4 SPF No.2	WEBS 1 Row at midpt 9-10, 4-13, 7-11, 8-10

<b>REACTIONS.</b>	(size) 10=Mechanical, 2=0-3-8 Max Horz 2=470(LC 5) Max Uplift 10=-237(LC 8), 2=-207(LC 8) Max Grav 10=1317(LC 2), 2=1324(LC 2)
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<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-871/0, 3-4=-3439/567, 4-5=-2051/337, 5-7=-1994/441, 7-8=-1089/318
BOT CHORD	3-14=-695/3302, 13-14=-694/3302, 5-13=-335/193
WEBS	4-14=0/269, 4-13=-1586/384, 11-13=-149/919, 7-13=-349/1380, 7-11=-1145/407, 8-11=-350/1443, 8-10=-1144/247

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=237, 2=207.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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			<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/21/2020</div>					
Job	Truss	Truss Type	1	1	Lot 74 RR - Raising Hope House 2021			
400477	A4	Half Hip			I42521638			
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional)						
		ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-72X3Uk5CNbhNpk3vKKhpCr?rALMaAv3Ptlf_CTyIj5P 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:48 2020 Page 1						
-0-10-8 2-3-8   7-1-13   13-4-0   19-1-14   27-5-0 0-10-8 2-3-8   4-10-5   6-2-4   5-9-14   7-8-1   0-7-2								

Scale = 1:72.9

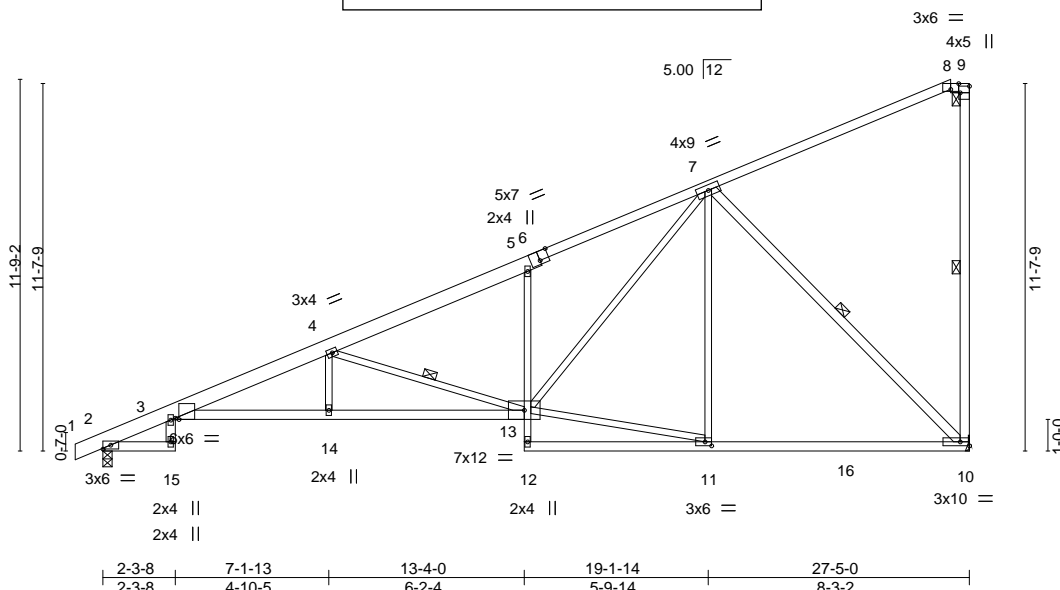


Plate Offsets (X,Y)-- [3:0-1-6,Edge], [6:0-3-8,Edge], [8:0-3-0,Edge], [9:Edge,0-3-8], [11:0-2-8,0-1-8]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b> <b>GRIP</b>	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.35 3-14 >920 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.62 3-14 >525 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.36 10 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.30 3-14 >999 240	Weight: 141 lb	FT = 10%

#### LUMBER-

TOP CHORD 2x4 SPF No.2 \*Except\*  
1-6: 2x6 SP 2400F 2.0E  
BOT CHORD 2x4 SPF No.2 \*Except\*  
3-13: 2x4 SPF 2100F 1.8E, 5-12: 2x3 SPF No.2  
WEBS 2x3 SPF No.2 \*Except\*  
9-10: 2x4 SPF 2400F 2.0E, 3-15, 7-10: 2x4 SPF No.2

#### REACTIONS.

(size) 10=Mechanical, 2=0-3-8  
Max Horz 2=498(LC 5)  
Max Uplift 10=-270(LC 8), 2=-202(LC 8)  
Max Grav 10=1304(LC 2), 2=1329(LC 2)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-897/0, 3-4=-3461/559, 4-5=-2058/324, 5-7=-1983/421, 7-8=-251/102  
BOT CHORD 3-14=-704/3325, 13-14=-703/3324, 5-13=-280/177, 10-11=-179/963  
WEBS 4-14=0/268, 4-13=-1607/392, 11-13=-157/948, 7-13=-334/1343, 7-11=0/299,  
7-10=-1348/334

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=270, 2=202.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

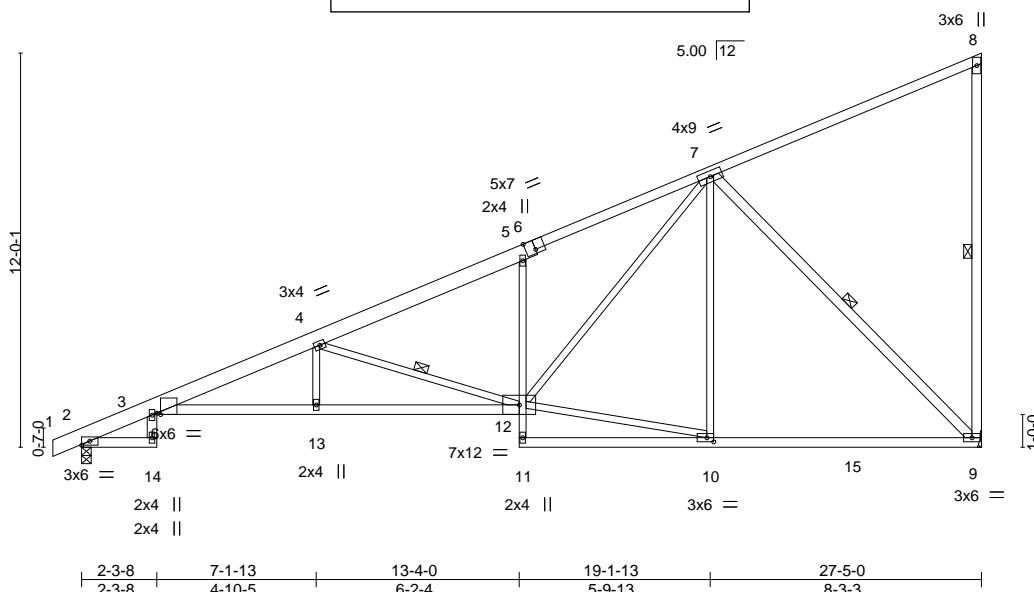
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017



Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> <b>08/21/2020</b>		Lot 74 RR - Raising Hope House 2021
400477	A5	Monopitch			I42521639
Wheeler Lumber, Waverly, KS 66871			ID: Ej7EWovY_94Pzt7Uvy1gWAZ_t70-cf5Ri46q8vpERue5u2C2k2Y0wliavLCZ6yPXkvylj5O 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:49 2020 Page 1		
0-10-8 2-3-8 7-1-13 13-4-0 19-1-13 27-5-0 0-10-8 2-3-8 4-10-5 6-2-4 5-9-13 8-3-3			Job Reference (optional)		



Scale = 1:70.2

Plate Offsets (X,Y)-- [3:0-1-6,Edge], [6:0-3-8,Edge], [10:0-2-8,0-1-8]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.35 3-13 >920 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.62 3-13 >525 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.36 9 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.33 3-13 >985 240	Weight: 142 lb	FT = 10%

#### LUMBER-

TOP CHORD 2x4 SPF No.2 \*Except\*  
 1-6: 2x6 SP 2400F 2.0E  
 BOT CHORD 2x4 SPF No.2 \*Except\*  
 3-12: 2x4 SPF 2100F 1.8E, 5-11: 2x3 SPF No.2  
 WEBS 2x3 SPF No.2 \*Except\*  
 8-9,3-14,7-9: 2x4 SPF No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 8-9, 4-12, 7-9

#### REACTIONS.

(size) 9=Mechanical, 2=0-3-8  
 Max Horz 2=481(LC 8)  
 Max Uplift 9=-329(LC 8), 2=-150(LC 8)  
 Max Grav 9=1304(LC 2), 2=1329(LC 2)

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

TOP CHORD 2-3=-714/0, 3-4=-3462/497, 4-5=-2057/220, 5-7=-1980/309  
 BOT CHORD 3-13=-895/3326, 12-13=-895/3325, 5-12=-273/159, 9-10=-245/966  
 WEBS 4-13=0/268, 4-12=-1610/448, 10-12=-221/952, 7-12=-364/1336, 7-10=0/302,  
 7-9=-1359/344

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=329, 2=150.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 21, 2020

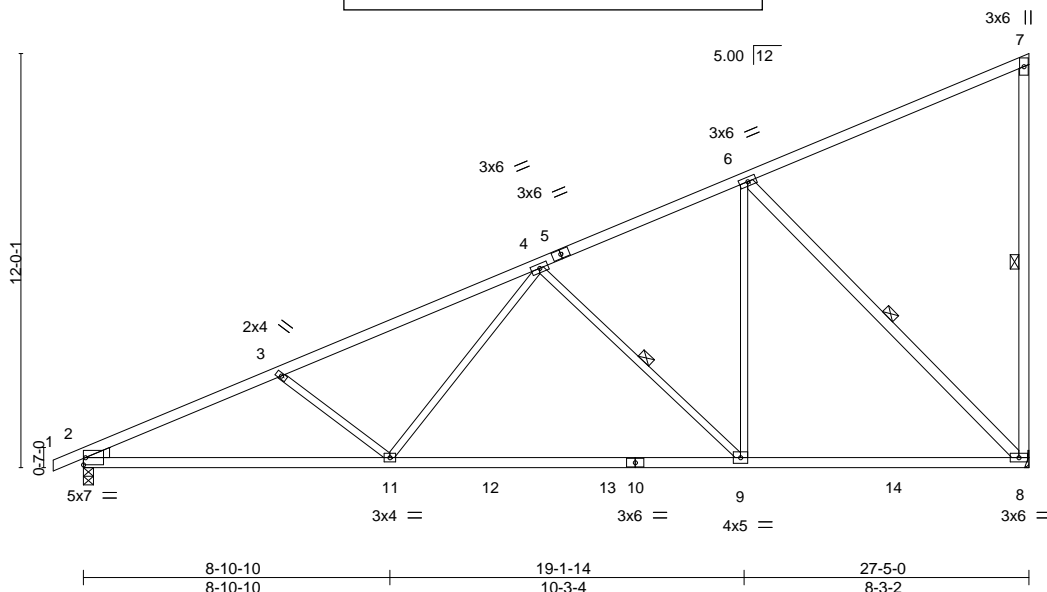
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>		Ply	Lot 74 RR - Raising Hope House 2021	I42521640
400477	A6	Monopitch			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871				ID: Ej7EWovY_94Pzt7UVV1gWAZ_t70-4RfpvQ6SvDx522DHSijHHG5Ev94yeoyIKc85HLyIj5N 08/21/2020		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:50 2020 Page 1 13-2-12 7-5-14 19-1-14 5-11-2 27-5-0 8-3-2	



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.26 9-11	>999	360	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.45 9-11	>720	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.06 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.08 9-11	>999	240		
								Weight: 115 lb	FT = 10%

#### LUMBER-

TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF 2100F 1.8E  
 WEBS 2x3 SPF No.2 \*Except\*  
 7-8,6-8: 2x4 SPF No.2

WEDGE  
 Left: 2x4 SPF No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 9-7-10 oc bracing.  
 WEBS 1 Row at midpt 7-8, 4-9, 6-8

#### REACTIONS.

(size) 8=Mechanical, 2=0-3-8  
 Max Horz 2=478(LC 8)  
 Max Uplift 8=329(LC 8), 2=150(LC 8)  
 Max Grav 8=1329(LC 2), 2=1354(LC 2)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2502/266, 3-4=-2238/181, 4-6=-1142/65  
 BOT CHORD 2-11=-656/2227, 9-11=-423/1549, 8-9=-239/1001  
 WEBS 3-11=-407/260, 4-11=-51/728, 4-9=-766/256, 6-9=-56/968, 6-8=-1411/336

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 8=329, 2=150.
- 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.



August 21, 2020

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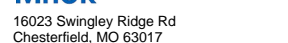
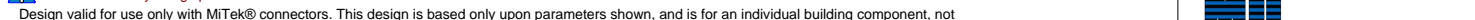
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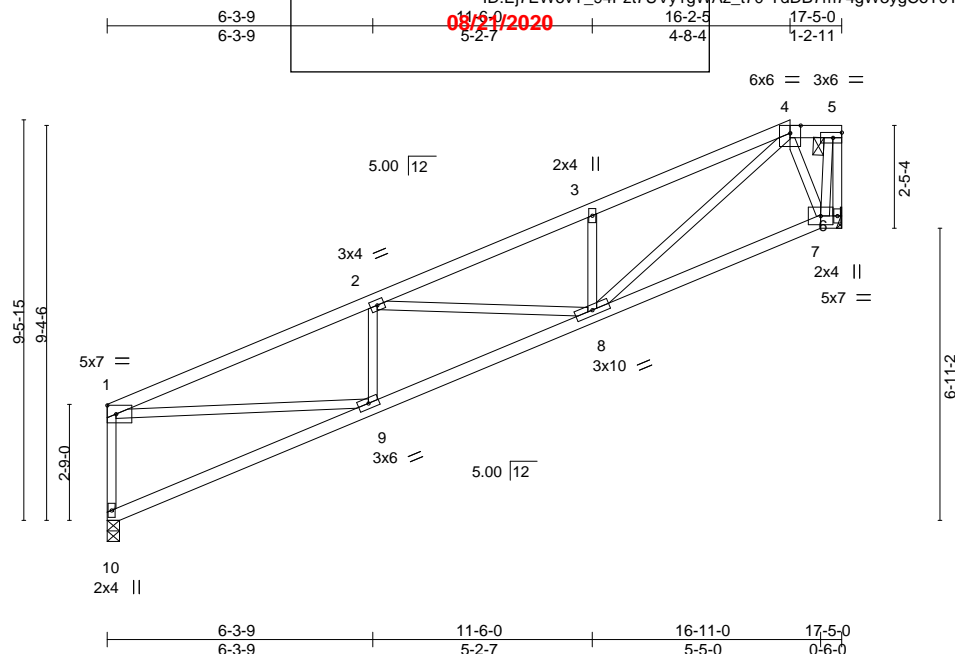
1) Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDI=-6.0psf; BCDI=-6.0psf; h=25ft; Cat. II; Exp. C; Enclosed;

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Job	Truss	Truss Type	<div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div>			Ply	Lot 74 RR - Raising Hope House 2021	I42521642
400477	B2	Half Hip				1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871					8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:51 2020 Page 1			
					ID:Ej7EWovY_94Pzt7UVy1gW3ygCoT0TEWpTdT_ZTCNMzrZGuepoylj5M			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.07	8-9	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.13	9-10	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.02	6	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05	8-9	>999	240	
								Weight: 67 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 10=0-3-8, 6=Mechanical  
Max Horz 10=211(LC 5)  
Max Uplift 6=74(LC 8)  
Max Grav 10=774(LC 1), 6=774(LC 1)

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

TOP CHORD 1-10=-731/84, 1-2=-1490/121, 2-3=-1405/129, 3-4=-1386/188, 5-6=-750/43  
BOT CHORD 8-9=-251/1435, 7-8=-54/393  
WEBS 1-9=-71/1266, 2-9=-404/106, 3-8=-320/101, 4-8=-176/1213, 4-7=-606/110, 5-7=-52/766

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



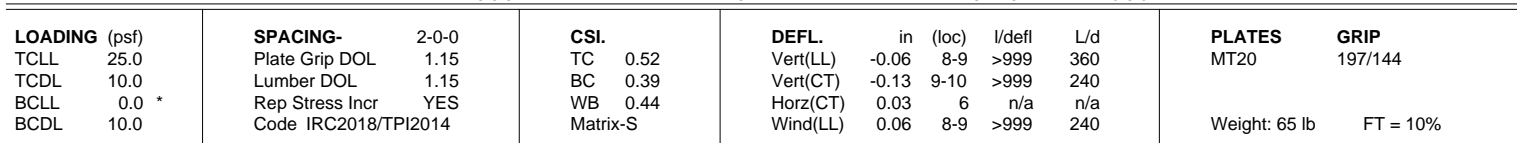
August 21, 2020

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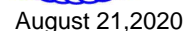
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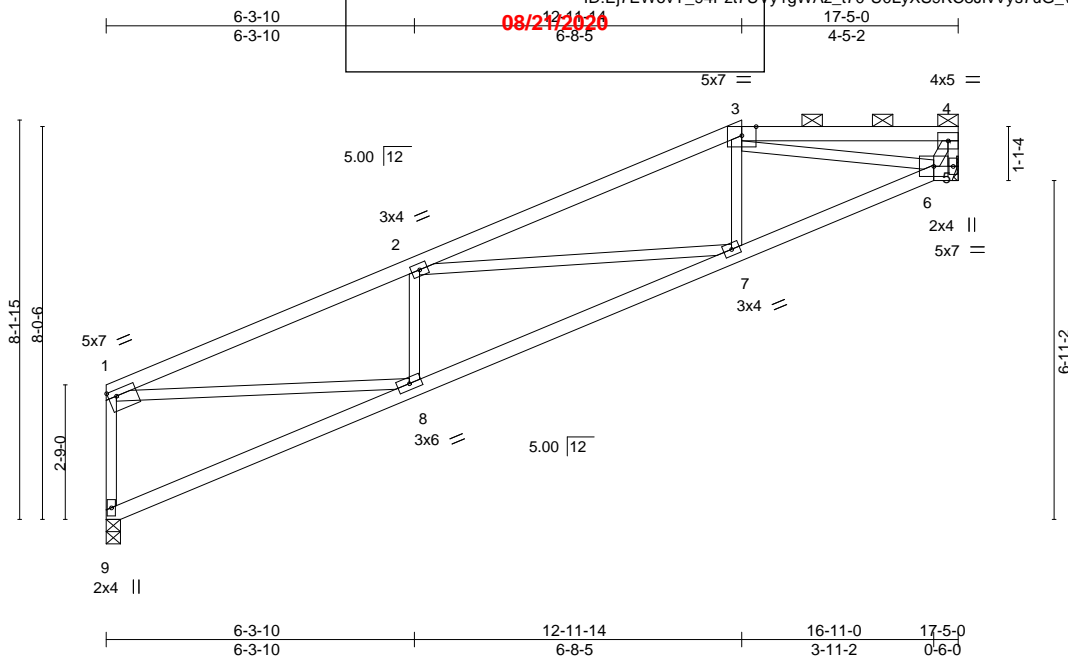
16023 Swingley Ridge Rd  
Chesterfield, MO 63017



- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 6=162.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:53 2020 Page 1  
94Pzt7UVv1qWAz t70-U0LyXS9KC8JfvVys7uG yujoEM8srFF81aNluqylj5K



Scale = 1:47.1

Plate Offsets (X,Y)-- [1:0-2-0,0-1-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.07	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.14	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.06	7-8	>999	240	Weight: 63 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD	2x4 SPF No.2		
WEBS	2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

**REACTIONS.** (size) 9=0-3-8, 5=Mechanical  
Max Horz 9=211(LC 5)  
Max Uplift 9=-80(LC 8), 5=-133(LC 8)  
Max Grav 9=774(LC 1), 5=774(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-9=-732/187, 1-2=-1524/320, 2-3=-1282/242, 3-4=-377/67, 4-5=-703/116  
 BOT CHORD 7-8=-489/1480, 6-7=-275/1190  
 WEBS 1-8=-247/1308, 2-8=-405/192, 3-7=-8/290, 3-6=-730/196, 4-6=-114/630

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 5=133.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21, 2020



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16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job 400477	Truss B5	Truss Type GABLE	<div style="text-align: center;"> <b>RELEASE FOR CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>	Ply 2	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:54 2020 Page 1 ID: EJEVovY_94Pzt7UVV1gWAZ_t70-yCuKln9yzRRWxfX2hboDR5F1YmWraioFD6lQ7ylj5J
Wheeler Lumber, Waverly, KS 66871		<div style="display: flex; justify-content: space-between;"> <span>6-1-6 6-1-6</span> <span>12-0-5 5-10-14</span> <span>17-8-0 5-7-11</span> </div>			

Scale = 1:49.8

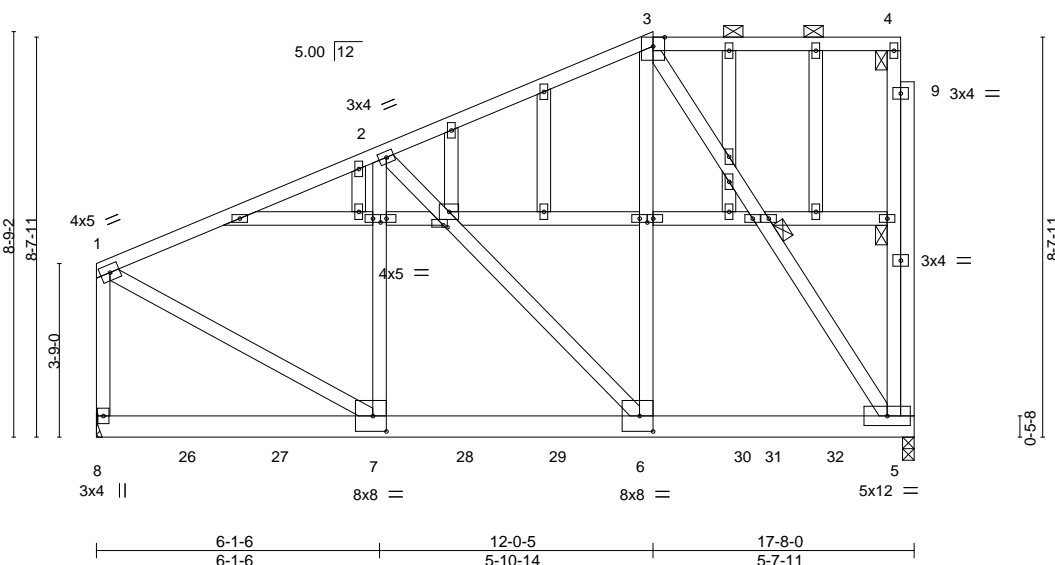


Plate Offsets (X,Y)--		[6:0-3-8,0-4-0], [7:0-3-8,0-4-0], [11:0-1-8,0-1-0], [12:0-1-1,0-0-8], [13:0-1-8,0-1-0]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.26	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(LL) -0.05 7-8 >999 360
BCLL 0.0 *	Rep Stress Incr NO	WB 0.49	Vert(CT) -0.08 7-8 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.01 5 n/a n/a
			Wind(LL) 0.03 7-8 >999 240
			<b>PLATES</b> <b>GRIP</b>
			MT20 197/144
			Weight: 296 lb FT = 10%

#### LUMBER-

TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x6 SP 2400F 2.0E  
 WEBS 2x4 SPF No.2  
 OTHERS 2x4 SPF No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-5, 3-5

#### REACTIONS.

(size) 5=0-3-0, 8=Mechanical  
 Max Horz 8=342(LC 5)  
 Max Uplift 5=393(LC 5), 8=318(LC 8)  
 Max Grav 5=3309(LC 1), 8=3182(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2764/287, 2-3=-1902/249, 1-8=-2603/299  
 BOT CHORD 7-8=-324/90, 6-7=-395/2485, 5-6=-264/1632  
 WEBS 2-7=-130/866, 2-6=-1152/209, 3-6=-262/2789, 3-5=-2946/341, 1-7=-248/2779

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;  
 MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=393, 8=318.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2



August 21, 2020

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> <b>08/21/2020</b>		Ply <b>2</b>	Lot 74 RR - Raising Hope House 2021 I42521645 Job Reference (optional)
400477	B5	GABLE				

Wheeler Lumber,
Waverly, KS 66871

8.410 s
May 22 2020
MiTek Industries, Inc.
Fri Aug 21 05:59:54 2020
Page 2
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- NOTES-**
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 619 lb down and 59 lb up at 2-0-0, 619 lb down and 63 lb up at 4-0-0, 619 lb down and 63 lb up at 6-0-0, 619 lb down and 63 lb up at 8-0-0, 619 lb down and 63 lb up at 10-0-0, 619 lb down and 63 lb up at 12-0-0, and 619 lb down and 63 lb up at 14-0-0, and 619 lb down and 63 lb up at 16-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Studding applied to ply: 1(Front)

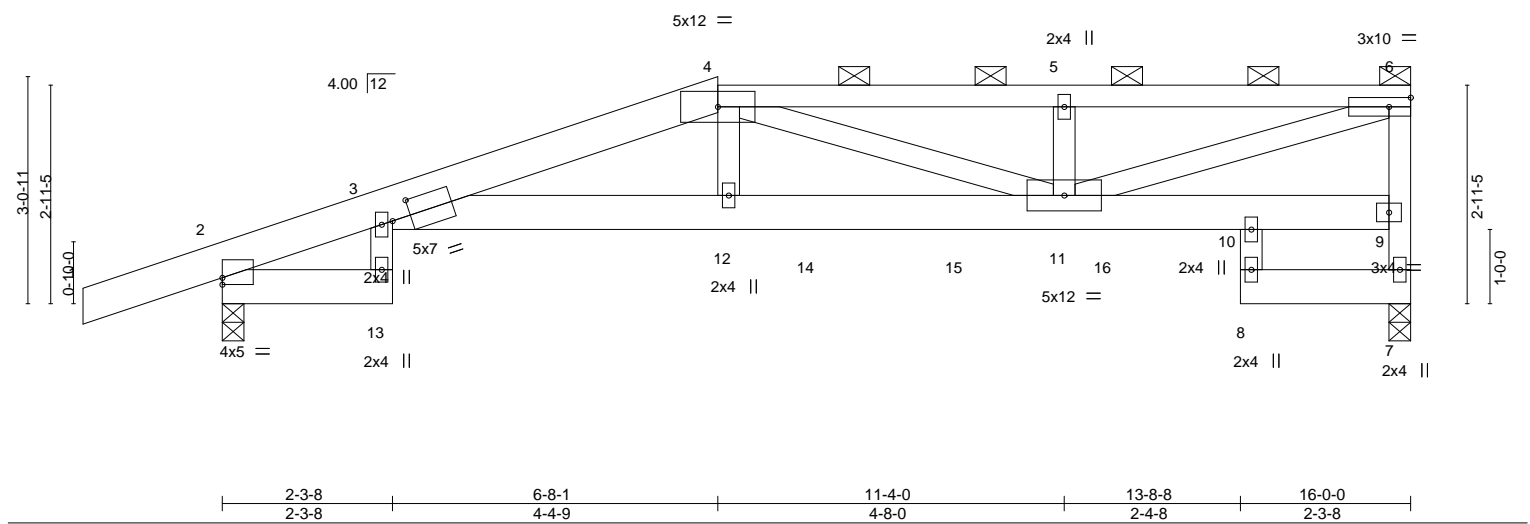
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-3=-70, 3-4=-70, 5-8=-20
- Concentrated Loads (lb)
- Vert: 7=-619(B) 6=-619(B) 26=-619(B) 27=-619(B) 28=-619(B) 29=-619(B) 30=-619(B) 32=-619(B)



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

Job 400477	Truss C1	Truss Type HALF HIP GIRDER	Ply <b>2</b>	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID:Ej7EWovY_94Pzt7UvY1gWAZ_t70-QOSiy7AbkIZN9p6FFIJS_Jo59AkLJALRUtssyZylj5l
Wheeler Lumber, Waverly, KS 66871			142521646	

8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:55 2020 Page 1  
 Scale = 1:31.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.16	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.28				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.19				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.14				
								Weight: 152 lb		FT = 10%	

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x6 SPF 1650F 1.4E *Except* 4-6: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD	2x6 SPF No.2 *Except* 8-10: 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SPF No.2		

<b>REACTIONS.</b>	
(size)	7=0-3-8, 2=0-3-8
Max Horz	2=120(LC 5)
Max Uplift	7=383(LC 4), 2=384(LC 4)
Max Grav	7=1518(LC 1), 2=1404(LC 1)

<b>FORCES.</b>	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-680/133, 3-4=-4260/1051, 4-5=-3373/876, 5-6=-3373/876, 7-9=-1474/388, 6-9=-1264/343
BOT CHORD	3-12=-1017/4090, 11-12=-1035/4183
WEBS	4-12=-196/985, 4-11=-855/221, 5-11=-317/164, 6-11=-853/3349

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=383, 2=384.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 449 lb down and 141 lb up at 6-8-1, 230 lb down and 81 lb up at 7-11-4, 230 lb down and 81 lb up at 9-11-4, and 230 lb down and 81 lb up at 11-11-4, and 230 lb down and 79 lb up at 13-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

**LOAD CASE(S)** Standard

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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

16023 Swingley Ridge Rd  
Chesterfield, MO 63017



Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> <b>08/21/2020</b>		Lot 74 RR - Raising Hope House 2021
400477	C1	HALF HIP GIRDER		<b>2</b>	I42521646
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:56 2020 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-ub04ATBDV3hEmzhRo0qhWWLGuZ4a2dbbjXbPU?ylj5H		

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-6=-70, 2-13=-20, 3-10=-20, 7-8=-20

Concentrated Loads (lb)

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

Job 400477	Truss C2	Truss Type Half Hip	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> ID:Ej7EWovY_94PztUVy1gWaz_t70-NnaSNpCrGmp5O7FdMjLw3ktRazRin1ukxBLz1Rylj5G 08/21/2020		Lot 74 RR - Raising Hope House 2021 I42521647 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:57 2020 Page 1 13-8-8 4-6-7 16-0-0 2-3-8
Wheeler Lumber, Waverly, KS 66871			9-2-1 6-10-9 1-10-8 1-10-8 2-3-8 2-3-8		

Scale = 1:30.8

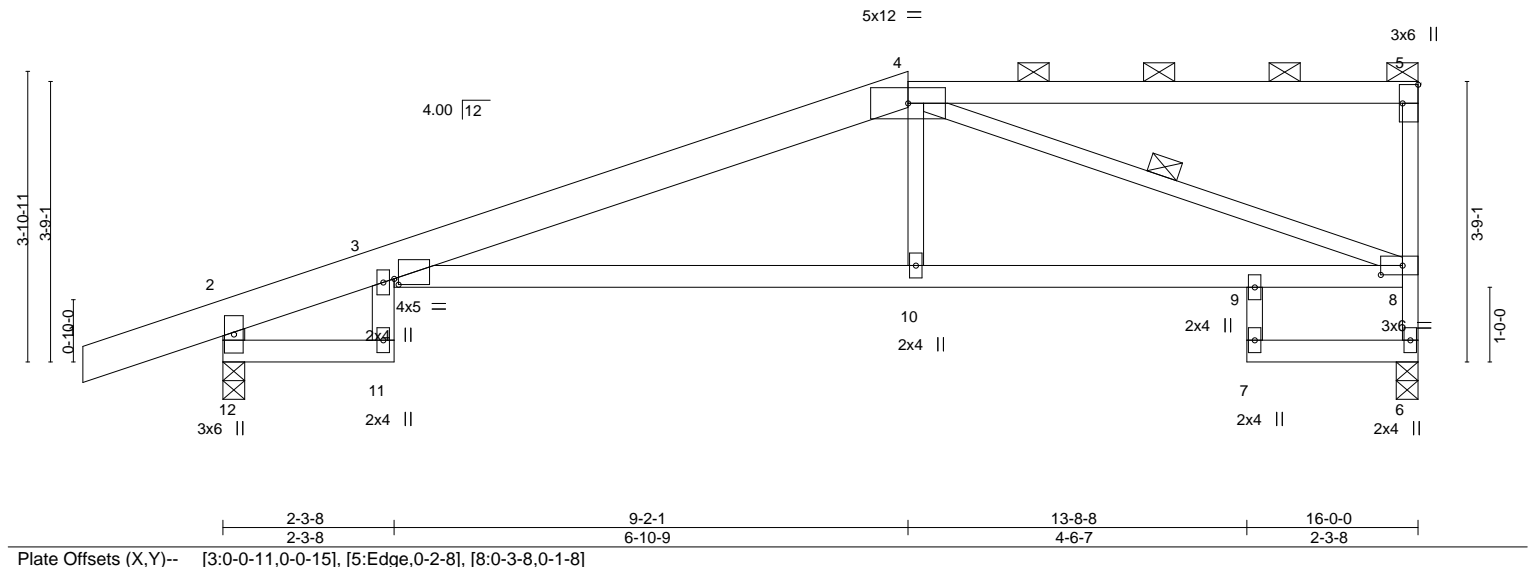


Plate Offsets (X,Y)--		[3:0-0-11,0-0-15], [5:Edge,0-2-8], [8:0-3-8,0-1-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.72
TCDL 10.0	Lumber DOL	1.15	BC 0.71
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
<b>DEFL.</b>	in (loc)	l/defl	L/d
Vert(LL)	-0.28 3-10	>670	360
Vert(CT)	-0.55 3-10	>342	240
Horz(CT)	0.32 6	n/a	n/a
Wind(LL)	0.24 3-10	>789	240
<b>PLATES</b>	<b>GRIP</b>		
MT20	197/144		
Weight: 61 lb		FT = 10%	

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SPF 1650F 1.4E *Except* 4-5: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x4 SPF No.2 *Except* 7-9: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 6-7.
WEBS 2x3 SPF No.2 *Except* 3-11,2-12: 2x4 SPF No.2	WEBS 1 Row at midpt 4-8

<b>REACTIONS.</b>	(size) 6=0-3-8, 12=0-3-8 Max Horz 12=166(LC 5) Max Uplift 6=-134(LC 4), 12=-216(LC 4) Max Grav 6=700(LC 1), 12=859(LC 1)
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<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-263/11, 3-4=-1296/218, 6-8=-673/147, 2-12=-857/235
BOT CHORD	3-10=-212/1223, 9-10=-207/1229, 8-9=-215/1232
WEBS	4-10=0/317, 4-8=-1250/226

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=134, 12=216.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21,2020

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b>  <b>08/21/2020</b> </div>		Ply	Lot 74 RR - Raising Hope House 2021	I42521648
400477	C3	Half Hip Girdler			2	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:58 2020 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-rz8rb9CT0gxy0GqqrRs9cxQigNpUWaOtAr4WZuyIj5F					
-1-10-8 1-10-8		5-9-13 5-9-13		11-5-1 5-7-5		12-8-0 1-2-15	
						16-0-0 3-4-0	

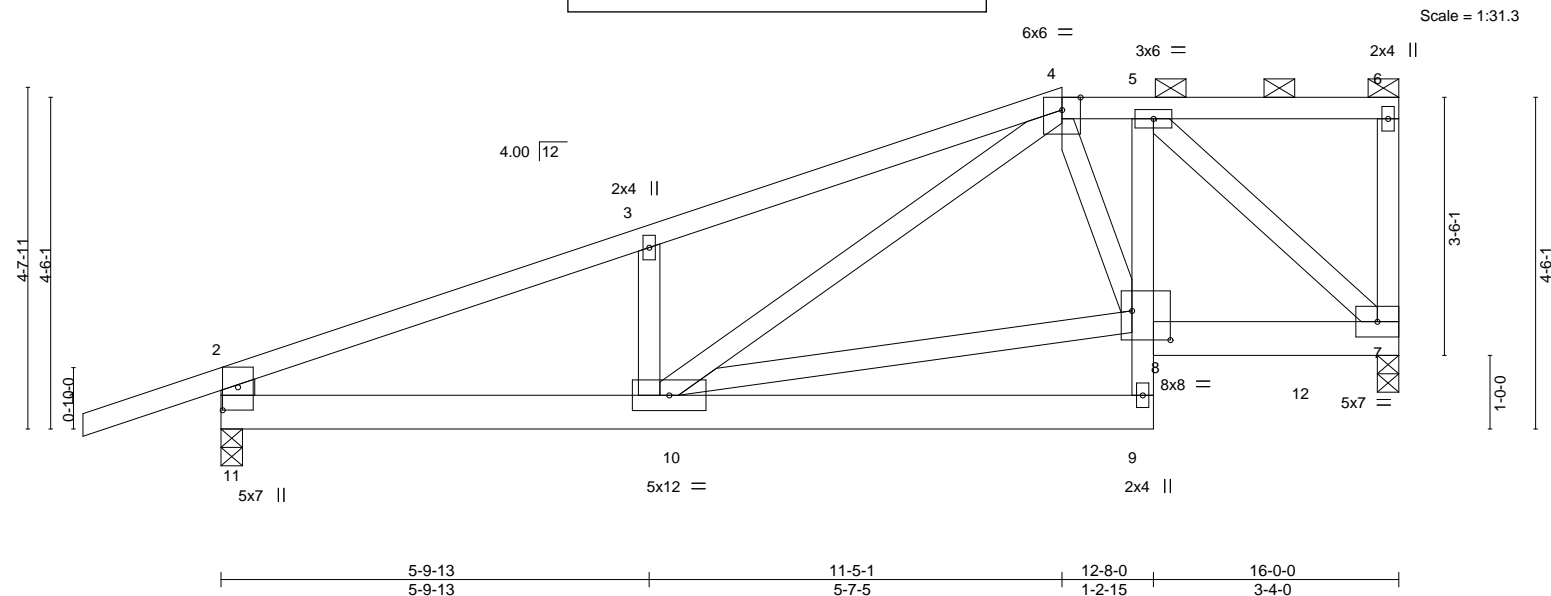


Plate Offsets (X,Y)--		[8:0-6-4,0-4-12], [11:0-3-12,0-2-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.38
TCDL 10.0	Lumber DOL	1.15	BC 0.55
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.20
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
<b>DEFL.</b>	in (loc)	L/defl	L/d
Vert(LL)	-0.04 9-10	>999	360
Vert(CT)	-0.08 9-10	>999	240
Horz(CT)	0.01 7	n/a	n/a
Wind(LL)	0.03 9-10	>999	240
<b>PLATES</b>	<b>GRIP</b>		
MT20	197/144		
Weight: 183 lb		FT = 10%	

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD 2x6 SP 2400F 2.0E *Except* 5-9: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.
WEBS 2x4 SPF No.2 *Except* 2-11: 2x6 SPF No.2	

**REACTIONS.** (size) 7=0-3-8, 11=0-3-8  
 Max Horz 11=178(LC 5)  
 Max Uplift 7=444(LC 4), 11=238(LC 4)  
 Max Grav 7=3641(LC 1), 11=1074(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1633/234, 3-4=-1560/283, 4-5=-1573/257, 2-11=-880/245  
 BOT CHORD 10-11=-253/1477, 5-8=-174/1327, 7-8=-233/1733  
 WEBS 3-10=-323/200, 4-10=-335/301, 8-10=-219/1518, 4-8=-124/472, 5-7=-2150/306

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-3-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=444, 11=238.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3162 lb down and 338 lb up at 14-9-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard  
 Continued on page 2



August 21, 2020

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

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 Chesterfield, MO 63017

Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> <b>08/21/2020</b>		Lot 74 RR - Raising Hope House 2021
400477	C3	Half Hip Girder		<b>2</b>	I42521648
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:58 2020 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t10-rz8rb9CT0gxy0GqqwRs9cxQigNpUWaOtAr4WZuyIj5F		

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
  - Vert: 1-2=-70, 2-4=-70, 4-6=-70, 9-11=-20, 7-8=-20
- Concentrated Loads (lb)
  - Vert: 12=-3162(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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 Chesterfield, MO 63017



Job 400477	Truss C4	Truss Type Half Hip	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:59 2020 Page 1 ID:Ej7EWovY_94PztUvy1gWAZ_170-JAiDoVD5n_4pdQP0U8NO89zlrn8iFxl1PVq35Kylj5E
Wheeler Lumber, Waverly, KS 66871			<div style="display: flex; justify-content: space-between;"> <div>             1-10-8 1-10-8           </div> <div>             2-3-8 2-3-8           </div> <div>             8-2-5 5-10-13           </div> <div> <b>08/21/2020</b> </div> <div>             14-2-1 5-11-12           </div> <div>             14-8-0 0-5-15           </div> </div>		

Scale = 1:34.4

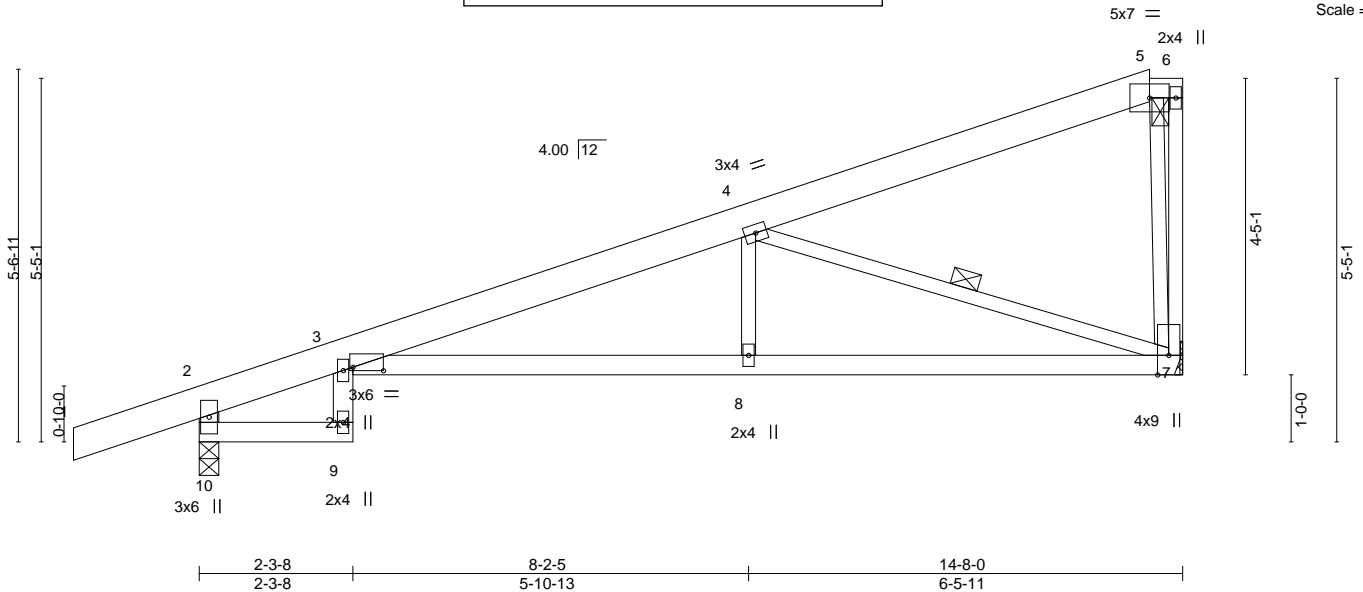


Plate Offsets (X, Y)--		[3:0-5-7,0-0-10]							
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>		<b>DEFL.</b>	in (loc)	L/defl	L/d
TCLL	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.19 3-8	>888	360
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.38 3-8	>461	240
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.21 7	n/a	n/a
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.13 3-8	>999	240
								<b>PLATES</b>	<b>GRIP</b>
								MT20	197/144
								Weight: 62 lb	FT = 10%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x6 SPF No.2 *Except* 5-6: 2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 3-9,2-10: 2x4 SPF No.2	WEBS	1 Row at midpt 4-7

**REACTIONS.** (size) 7=Mechanical, 10=0-3-8  
 Max Horz 10=168(LC 5)  
 Max Uplift 7=-39(LC 8), 10=-86(LC 4)  
 Max Grav 7=639(LC 1), 10=800(LC 1)

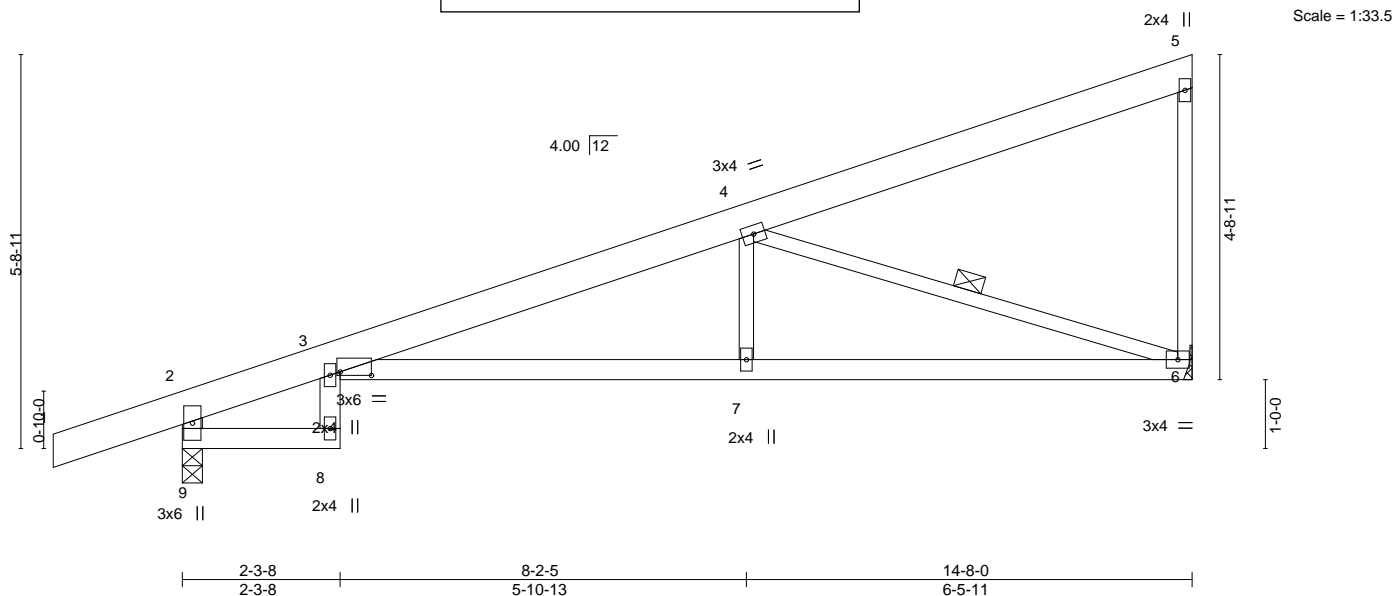
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-266/0, 3-4=-1338/61, 2-10=-795/103  
 BOT CHORD 3-8=-76/1271, 7-8=-75/1270  
 WEBS 4-8=0/287, 4-7=-1314/110

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21, 2020

Job	Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>ID:Ej7EWovY_94PztUVy1gWAZ_t70-nMGb?rEjYHCgFa_C1suhMVwbBUxzOnAe9addmylj5D</div> <div>08/21/2020</div>		Lot 74 RR - Raising Hope House 2021	I42521650
400477	C5	Monopitch	1		Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:00 2020 Page 1				
<div><div>-1-10-8</div><div>1-10-8</div></div>		<div><div>2-3-8</div><div>2-3-8</div></div>	<div><div>8-2-5</div><div>5-10-13</div></div>	<div><div>14-8-0</div><div>6-5-11</div></div>		



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL)	-0.19	3-7	>894	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.37	3-7	>463	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.21	6	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.13	3-7	>999	240	
				Weight: 59 lb				FT = 10%	

#### LUMBER-

TOP CHORD 2x6 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x3 SPF No.2 \*Except\*  
 3-8,2-9: 2x4 SPF No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-6

#### REACTIONS.

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

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

TOP CHORD 2-3=-271/0, 3-4=-1347/62, 2-9=-795/102  
 BOT CHORD 3-7=-79/1281, 6-7=-78/1280  
 WEBS 4-7=0/287, 4-6=-1345/118

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 21, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

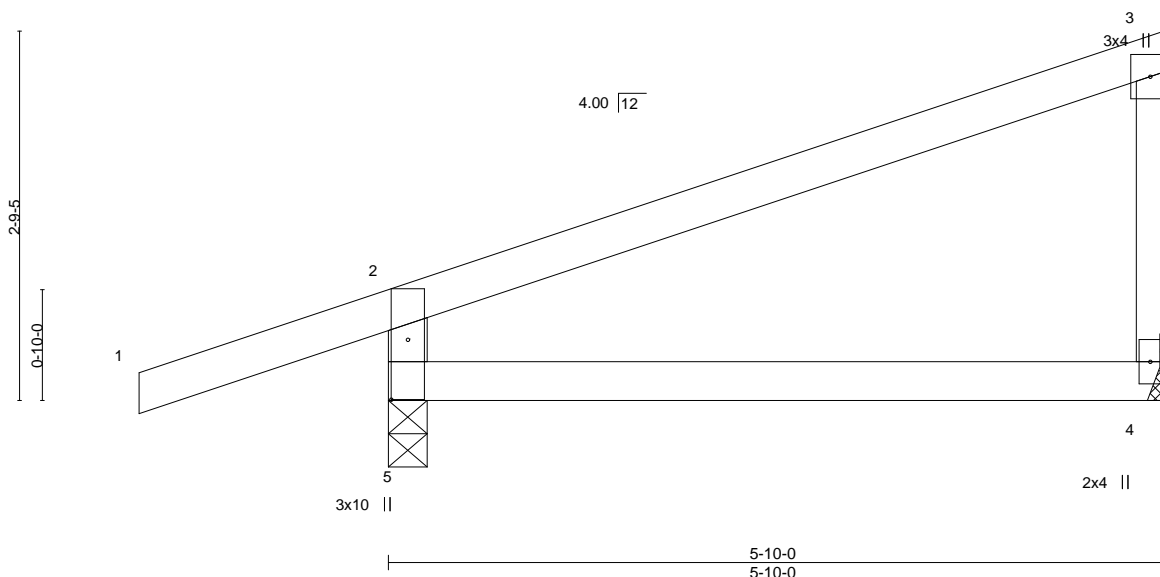
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Scale = 1:32.9

Job 400477	Truss C7	Truss Type Monopitch	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/21/2020</div> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-FYpzDBFLJbKXtkZPbZQsDa2DLawqi_EKspJAADylj5C
Wheeler Lumber,	Waverly, KS 66871				8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:01 2020 Page 1 WAZ_t70-FYpzDBFLJbKXtkZPbZQsDa2DLawqi_EKspJAADylj5C



Scale = 1:17.3

Plate Offsets (X,Y)--	[5:0-5-6,0-1-8]								
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>		<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 25.0		Plate Grip DOL	1.15	TC 0.36		Vert(LL)	-0.04 4-5	>999	360
TCDL 10.0		Lumber DOL	1.15	BC 0.25		Vert(CT)	-0.08 4-5	>846	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)	0.01 4-5	>999	240
								<b>PLATES</b>	<b>GRIP</b>
								MT20	197/144
								Weight: 18 lb	FT = 10%

#### 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 5-10-0 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 Horz 5=120(LC 5)  
 Max Uplift 4=-49(LC 8), 5=-138(LC 4)  
 Max Grav 4=226(LC 1), 5=418(LC 1)

#### FORCES.

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=138.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 21,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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



16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job 400477	Truss C8	Truss Type Half Hip	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b>  <b>08/21/2020</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521653 Job Reference (optional) ID:Ej7EWovY_94Pzt7UVy1gWAz_170-FYpzDBFLJbKXtkZPbZQsDa25vasWivjKspJAADylj5C
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:01 2020 Page 1 12-11-1 4-8-12 14-8-0 1-8-15		

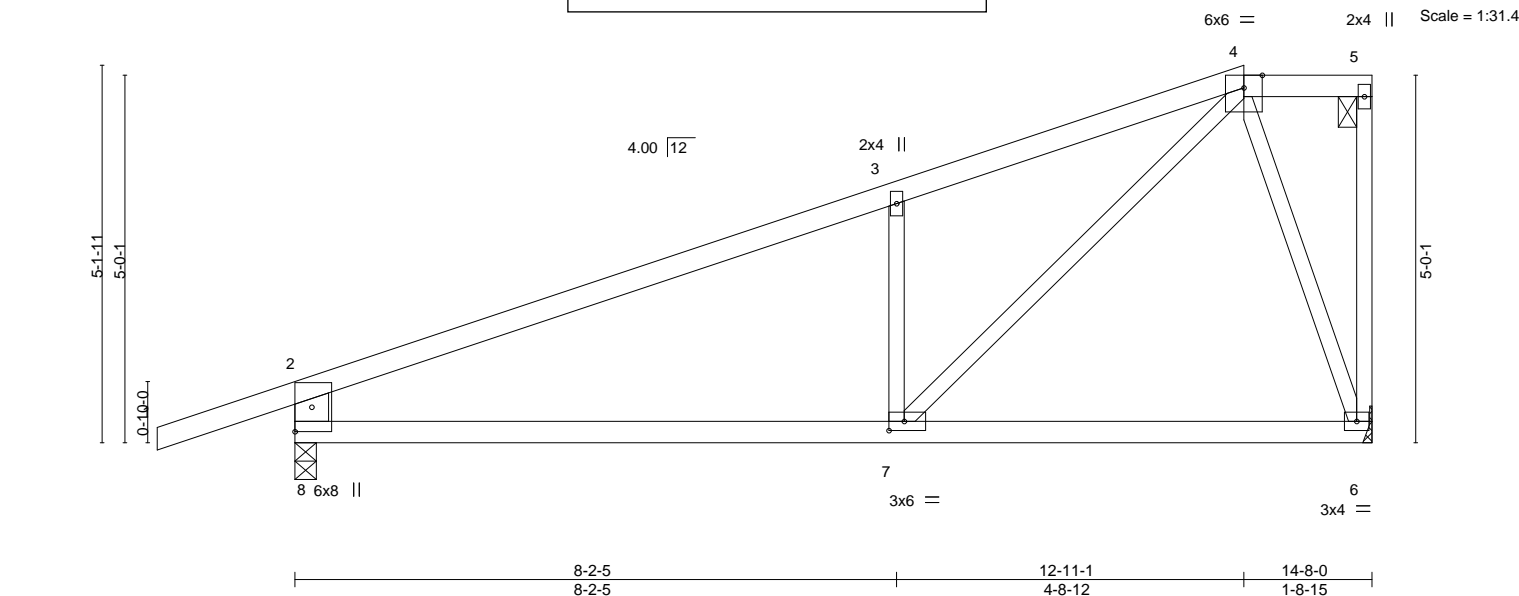


Plate Offsets (X,Y)--		[7:0-2-8,0-1-8]	
<b>LOADING</b> (psf)	<b>SPACING</b>	<b>CSI.</b>	<b>DEFL.</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.90	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(LL) -0.09 7-8 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.35	Vert(CT) -0.18 7-8 >933 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.01 6 n/a n/a
			Wind(LL) 0.03 6-7 >999 240
			<b>PLATES</b> MT20
			<b>GRIP</b> 197/144
			Weight: 52 lb FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-8: 2x6 SPF No.2	

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

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-913/142, 3-4=-873/232, 2-8=-718/247  
 BOT CHORD 7-8=-141/772  
 WEBS 3-7=-439/240, 4-7=-210/826, 4-6=-573/133

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=129, 8=201.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21, 2020



Job	Truss	Truss Type	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b>  <b>08/21/2020</b> </div>		Ply	Lot 74 RR - Raising Hope House 2021	I42521654
400477	C9	Roof Special			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			ID: Ej7EWovY_94Pzt7UVy1gWAZ_t70-jINLQWG_4vSOuU8b9Hx5mnbHo_9ARNqT5T3kifylJ5B 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:02 2020 Page 1 WAZ_t70-jINLQWG_4vSOuU8b9Hx5mnbHo_9ARNqT5T3kifylJ5B				

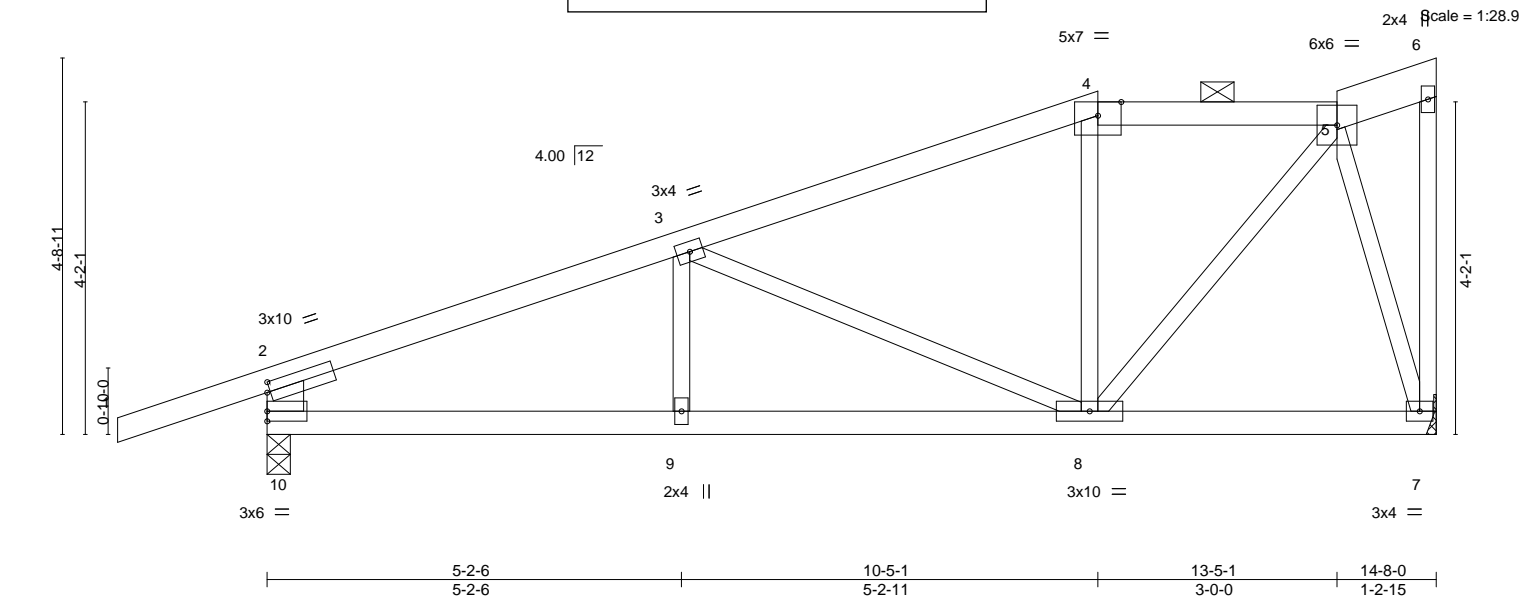


Plate Offsets (X,Y)-- [2:0-0-8,0-1-8]		5-2-6 5-2-6		10-5-1 5-2-11		13-5-1 3-0-0		14-8-0 1-2-15	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.09	8-9	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.16	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07	8-9	>999	Weight: 58 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2 *Except* 5-6: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-10: 2x6 SP DSS	

**REACTIONS.** (size) 7=Mechanical, 10=0-3-8  
 Max Horz 10=203(LC 5)  
 Max Uplift 7=130(LC 8), 10=204(LC 4)  
 Max Grav 7=634(LC 1), 10=803(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-998/169, 3-4=-584/119, 4-5=-522/138, 2-10=-697/219  
 BOT CHORD 9-10=-180/869, 8-9=-180/869  
 WEBS 3-8=-385/126, 5-8=-110/563, 5-7=-600/144

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=130, 10=204.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21, 2020

**RELEASE FOR CONSTRUCTION**  
**AS NOTED ON PLANS REVIEW**  
**DEVELOPMENT SERVICES**  
**LEE'S SUMMIT, MISSOURI**  
 ID: Ej7EWovY\_94Pzt7UVy1gWAZ\_t70-ub04ATBDV3hEmzhRo0qhWWLDXZ6?2XYbjXbPU?ylj5H  
 08/21/2020

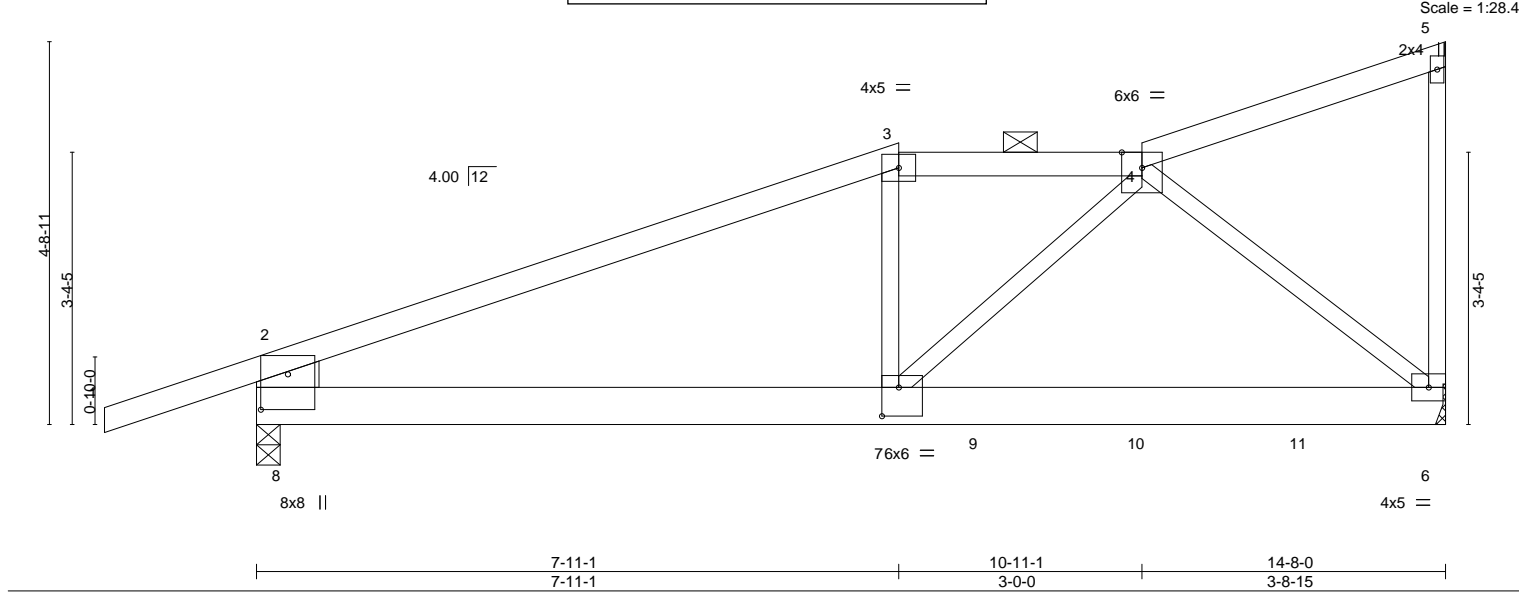
Job 400477	Truss C10	Truss Type Roof Special	Girder	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) 142521655
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:56 2020 Page 1 WAZ_t70-ub04ATBDV3hEmzhRo0qhWWLDXZ6?2XYbjXbPU?ylj5H		

-1-10-8  
1-10-8

7-11-1  
7-11-1

10-11-1  
3-0-0

14-8-0  
3-8-15



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	2-0-0	TC	0.94	Vert(LL)	-0.15	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.27	Weight: 60 lb FT = 10%			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.02				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.14				

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 1-3: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 3-8-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-13 max.): 3-4.
BOT CHORD	2x6 SPF 1650F 1.4E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 2-8: 2x10 SP DSS		

**REACTIONS.** (size) 6=Mechanical, 8=0-3-8  
 Max Horz 8=204(LC 22)  
 Max Uplift 6=381(LC 8), 8=345(LC 4)  
 Max Grav 6=1404(LC 1), 8=1219(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1995/494, 3-4=-1781/498, 2-8=-1098/378  
 BOT CHORD 7-8=-464/1791, 6-7=-284/1107  
 WEBS 3-7=-113/352, 4-7=-252/942, 4-6=-1415/419

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=381, 8=345.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 503 lb down and 181 lb up at 7-11-1, 211 lb down and 76 lb up at 8-11-13, and 238 lb down and 83 lb up at 10-11-4, and 238 lb down and 83 lb up at 12-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION		
400477	C10	Roof Special	Girder	Ply	1
Wheeler Lumber, Waverly, KS 66871			Lot 74 RR - Raising Hope House 2021 I42521655		
			Job Reference (optional)		
			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 05:59:57 2020 Page 2		
			ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-NnaSNpCrGMp5O7FdMjLw3ktOHZSEn_okxBLz1Rylj5G		
			08/21/2020		

**LOAD CASE(S)** Standard  
Concentrated Loads (lb)  
Vert: 7=-503(B) 9=-211(B) 10=-238(B) 11=-238(B)

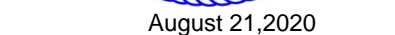


LUMBER	BRACING

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

- 

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

[illegible]

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/P11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



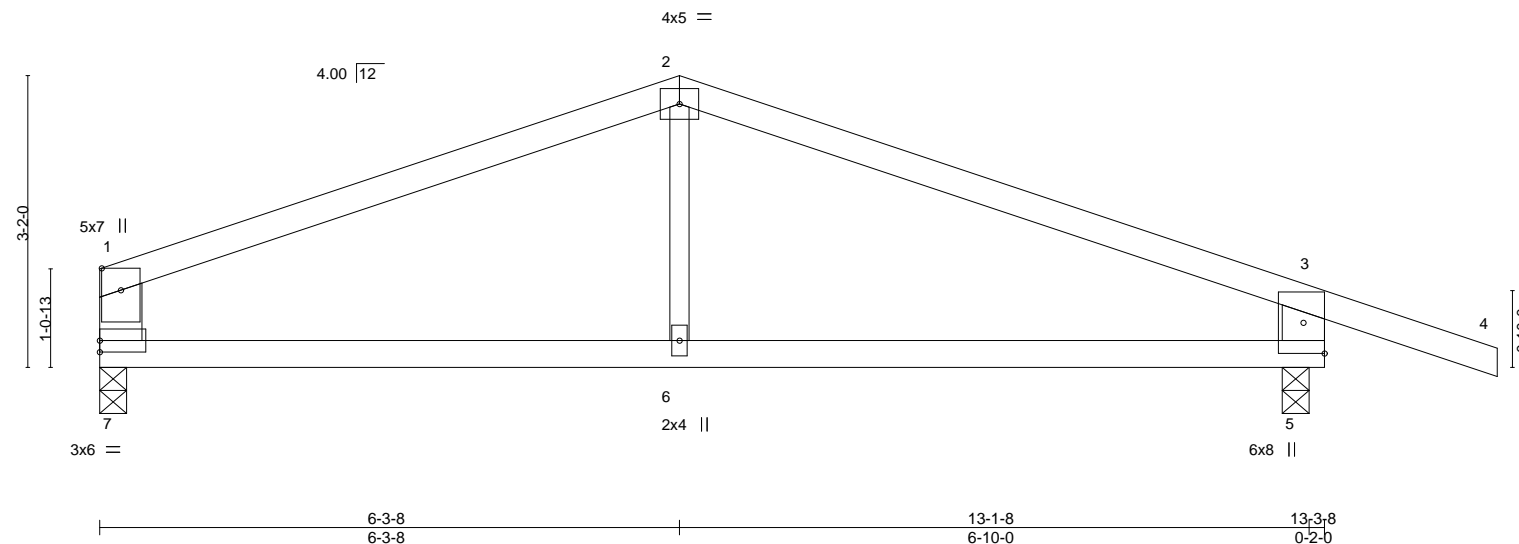
Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> <b>08/21/2020</b>		Ply	Lot 74 RR - Raising Hope House 2021	I42521656
400477	D1	Hip Girder			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:03 2020 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-BxxjesGcrCaF62jnj_SKJ?7T1OR5AtDdK7oHE5ylj5A				

**LOAD CASE(S)** Standard  
Uniform Loads (plf)  
Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 8-12=-20  
Concentrated Loads (lb)  
Vert: 10=-197(F) 9=-197(F) 13=-28(F) 14=-12(F)



Job	Truss	Truss Type	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>		Ply	Lot 74 RR - Raising Hope House 2021
400477	D2	Common			1	I42521657
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)
						8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:04 2020 Page 1
						ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-f7V6rCHEcWi6kBlzGhzZrCgeXosvKtmYnYqmYylj59
						08/21/2020
						13-3-8 15-2-0 1-10-8
						7-0-0 1-10-8

Scale = 1:25.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.10 5-6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.20 5-6	>760	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.06 5-6	>999	240	Weight: 38 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

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

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-744/98, 2-3=-756/104, 1-7=-462/113, 3-5=-646/220  
 BOT CHORD 6-7=-26/630, 5-6=-26/630

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 5=181.
- 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.



August 21, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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



16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job 400477	Truss D3	Truss Type Common	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b>  <b>08/21/2020</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID: Ej7EWovY_94Pzt7UVy1gWAZ_t70-8K3U3YIsNqgyMLtAqPUoOQDqrCFleovnRHOJ_ylj58
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:05 2020 Page 1 6-3-8 6-3-8 7-7-0 1-3-8		

Scale = 1:21.6

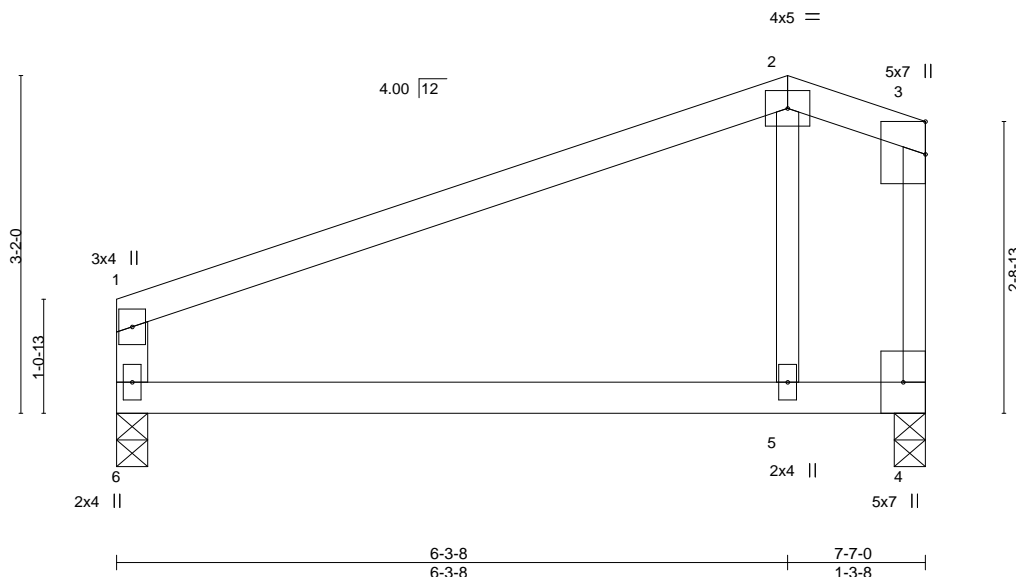


Plate Offsets (X,Y)--		[3:0-3-11,0-0-0]							
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>		<b>DEFL.</b>	in (loc)	L/defl	L/d
TCLL 25.0		Plate Grip DOL	1.15	TC 0.64		Vert(LL)	-0.07 5-6	>999	360
TCDL 10.0		Lumber DOL	1.15	BC 0.34		Vert(CT)	-0.17 5-6	>529	240
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.03		Horz(CT)	0.00 4	n/a	n/a
BCDL 10.0		Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.06 5-6	>999	240
								<b>PLATES</b>	<b>GRIP</b>
								MT20	197/144
								Weight: 23 lb	FT = 10%

#### LUMBER-

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

#### 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) 6=0-3-8, 4=0-3-8  
 Max Horz 6=100(LC 5)  
 Max Uplift 6=53(LC 4), 4=55(LC 4)  
 Max Grav 6=330(LC 1), 4=330(LC 1)

#### FORCES.

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

#### NOTES-

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



August 21, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div>		Lot 74 RR - Raising Hope House 2021
400477	D4	Common	1	1	I42521659
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)		
8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:05 2020 Page 1					
			ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-8K3U3YIsNqyMLtAqPUoOQDrkCGneopvnRHOJ_ylj58		
			08/21/2020		
			7-3-8		
			1-3-8		

Scale = 1:21.6

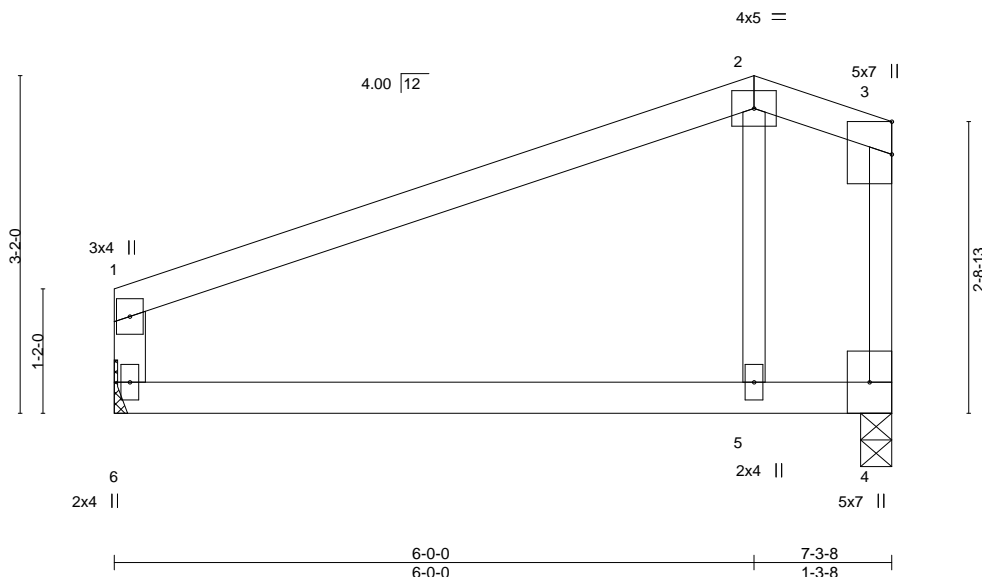


Plate Offsets (X,Y)--		[3:0-3-11,0-0-0]			
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.06 5-6 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.14 5-6 >594 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.05 5-6 >999 240	Weight: 22 lb	FT = 10%

#### LUMBER-

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

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

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

#### NOTES-

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



August 21,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

**08/21/2020**

Scale = 1:49.5



Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/21/2020		Ply	Lot 74 RR - Raising Hope House 2021
400477	E1	Roof Special	Girder		1	I42521660
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional)			
			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:07 2020 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-4iBETEJ6vR4gbf0YyqXGTriB1?q26W5CFImUNsylv56			

**LOAD CASE(S)** Standard  
Uniform Loads (plf)  
Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 10-16=-20  
Concentrated Loads (lb)  
Vert: 7=22(F) 11=57(F)

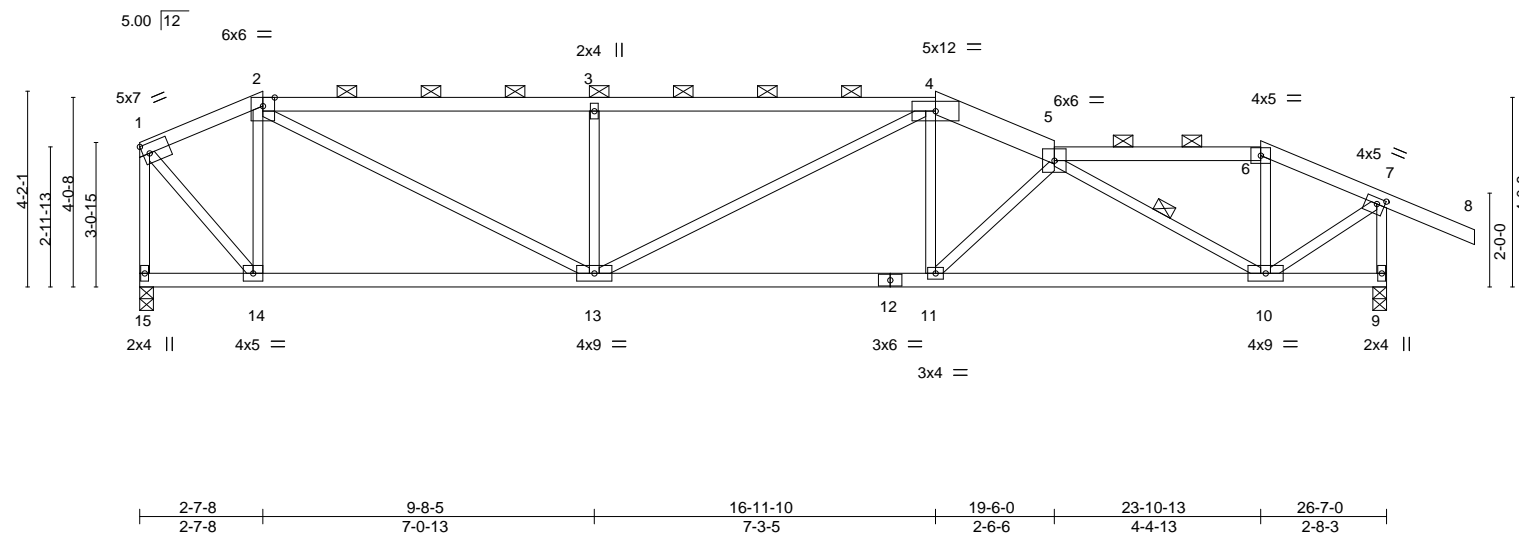
Job 400477	Truss E2	Truss Type Roof Special	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521661 Job Reference (optional)
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Wheeler Lumber, Waverly, KS 66871

18.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:08 2020 Page 1  
 ID:Ej7EWovY\_94Pzt7UVy1gWAZ\_t70-YulchaKkgICXDpblVX2V02qJpPCFr15MTPW2vJylj55

08/21/2020

Scale = 1:49.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.13 11-13 >999	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.25 11-13 >999				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.06 9 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.10 11-13 >999				
								Weight: 104 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 4-5: 2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals, and 2-0-0 oc purlins (2-11-8 max.): 2-4, 5-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x3 SPF No.2	WEBS	1 Row at midpt 5-10

REACTIONS.	
(size)	15=0-3-8, 9=0-3-8
Max Horz	15=-130(LC 4)
Max Uplift	15=-176(LC 5), 9=-235(LC 5)
Max Grav	15=1182(LC 1), 9=1331(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-805/156, 2-3=-2037/394, 3-4=-2035/392, 4-5=-2124/357, 5-6=-968/154, 6-7=-1088/161, 1-15=-1185/178, 7-9=-1327/232
BOT CHORD	13-14=-96/753, 11-13=-278/1956, 10-11=-349/2207
WEBS	2-14=-728/202, 2-13=-263/1469, 3-13=-590/240, 4-13=-73/266, 4-11=-12/434, 5-11=-377/140, 5-10=-1448/270, 1-14=-167/1122, 7-10=-137/1202

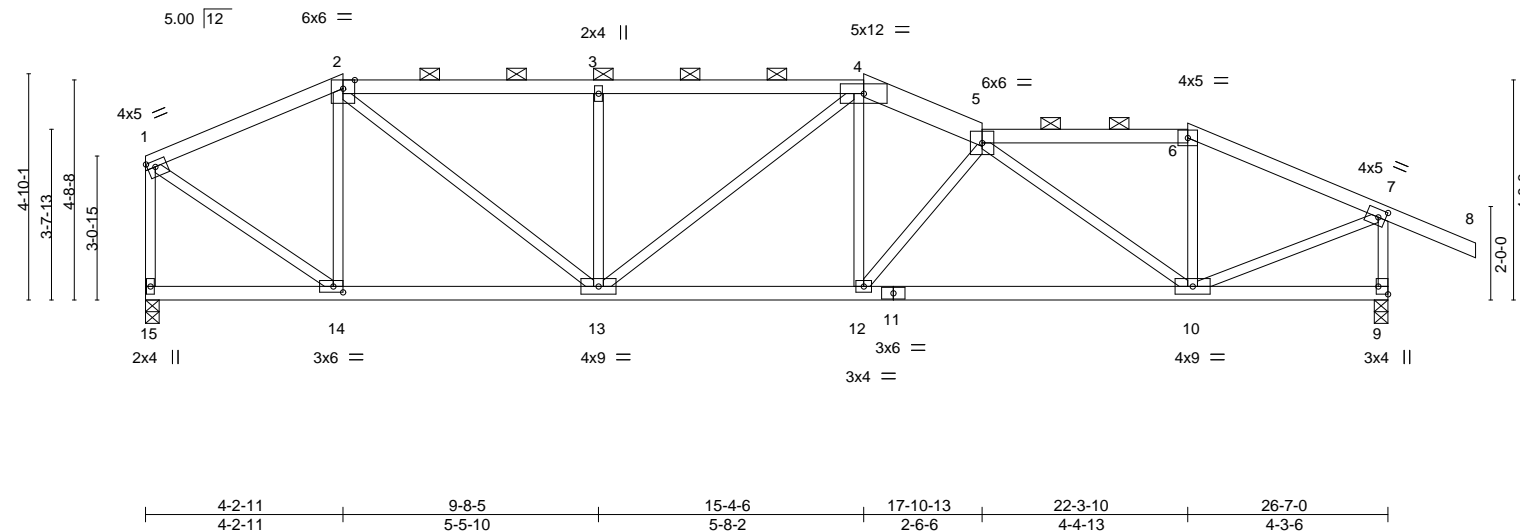
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=176, 9=235.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21, 2020



Scale = 1:49.3



<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc)	l/defl	L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0		Plate Grip DOL 1.15		TC 0.44		Vert(LL) -0.09 12-13	>999	360		MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.60		Vert(CT) -0.20 10-12	>999	240			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.80		Horz(CT) 0.05 9	n/a	n/a			
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S		Wind(LL) 0.07 12-13	>999	240		Weight: 108 lb	FT = 10%

**LUMBER-**

TOP CHORD 2x4 SPF No.2 \*Except\*  
4-5: 2x6 SPF No.2  
BOT CHORD 2x4 SPF No.2  
WEBS 2x3 SPF No.2

**BRACING-**

TOP CHORD	Structural wood sheathing directly applied or 4-10-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-5 max.): 2-4, 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 15=0-3-8, 9=0-3-8  
 Max Horz 15=-128(LC 4)  
 Max Uplift 15=-153(LC 5), 9=-218(LC 5)  
 Max Grav 15=1182(LC 1), 9=1331(LC 1)

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

TOP CHORD 1-2=-1053/187, 2-3=-1688/324, 3-4=-1686/323, 4-5=-1901/319, 5-6=-1203/194,  
6-7=-1364/195, 1-15=-1149/173, 7-9=-1302/231

BOT CHORD 13-14=-105/944, 12-13=-222/1741, 10-12=-292/2005

WEBS 2-14=-539/151, 2-13=-171/991, 3-13=-465/186, 4-12=-42/485, 5-12=-446/154,  
5-10=-1003/192, 6-10=0/264, 1-14=-147/1120, 7-10=-143/1304

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=153, 9=218.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21, 2020



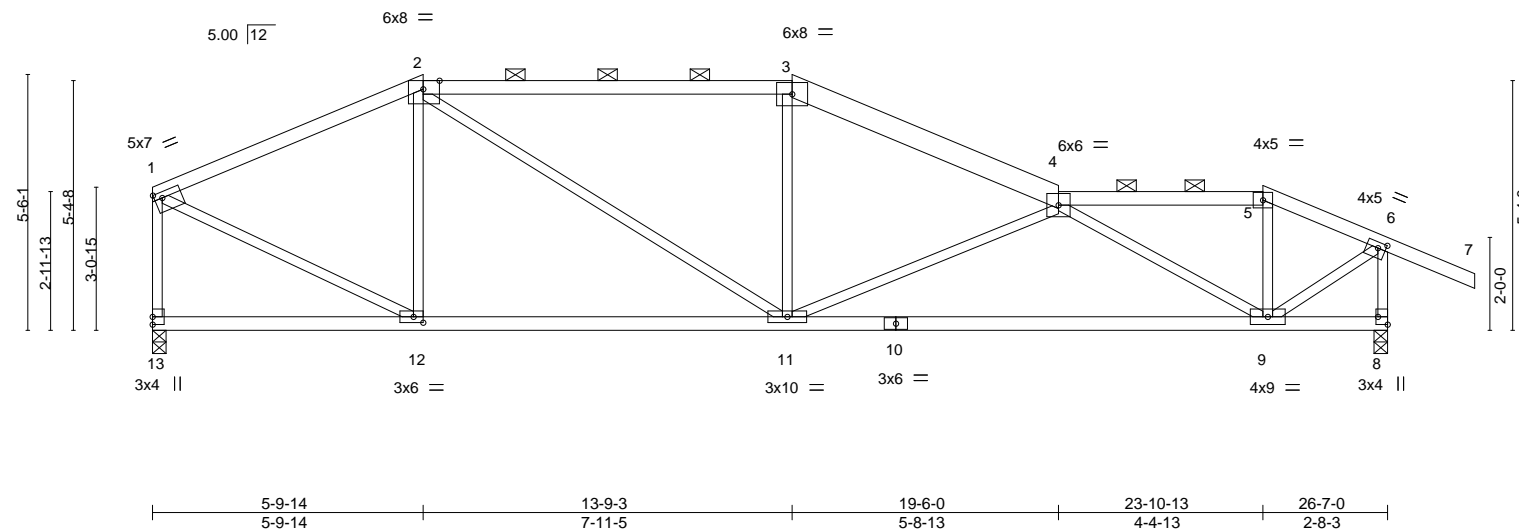
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16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job 400477	Truss E4	Truss Type Roof Special	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b>		Lot 74 RR - Raising Hope House 2021 142521663 Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:10 2020 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWaz_t70-UHsN6GM?CMSFS617dy4z5Twf4Dr4Jplxj?9_Bylj53		
5-9-14 5-9-14			13-9-3 7-11-5		
19-6-0 5-8-13			23-10-13 4-4-13		
26-7-0 2-8-3			28-5-8 1-10-8		

Scale = 1:49.6



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.24	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.50				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.05				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.06				

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied or 4-6-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-5 max.): 2-3, 4-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x3 SPF No.2		6-0-0 oc bracing: 8-9.

REACTIONS.	
(size)	13=0-3-8, 8=0-3-8
Max Horz	13=-126(LC 4)
Max Uplift	13=-124(LC 5), 8=-206(LC 5)
Max Grav	13=1182(LC 1), 8=1331(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-1221/188, 2-3=-1591/256, 3-4=-1784/248, 4-5=-998/117, 5-6=-1120/112, 1-13=-1134/152, 6-8=-1365/180
BOT CHORD	11-12=-93/1078, 9-11=-292/2188
WEBS	2-12=-390/142, 2-11=-94/681, 3-11=0/297, 4-11=-663/230, 4-9=-1391/256, 1-12=-129/1166, 6-9=-77/1246

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=124, 8=206.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21, 2020

**RELEASE FOR CONSTRUCTION**  
**AS NOTED ON PLANS REVIEW**  
**DEVELOPMENT SERVICES**  
**LEE'S SUMMIT, MISSOURI**  
ID: Ej7EWovY\_94Pzt7UVy1gWAz\_t70-yTQlJbNdzga64GKKbfbCdhSrUcCL2MJo9NkiWeylj52

Job 400477	Truss E5	Truss Type Roof Special	Girder	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871			<small>8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:11 2020 Page 1</small> <small>13-10-13 08/21/2020</small>		

7-5-2      10-2-0      11-10-13      13-10-13      21-1-3      25-6-0      26-7-0      28-5-8

7-5-2      2-8-14      1-8-13      2-0-0      7-2-6      4-4-13      1-1-0      1-10-8

Scale = 1:50.6

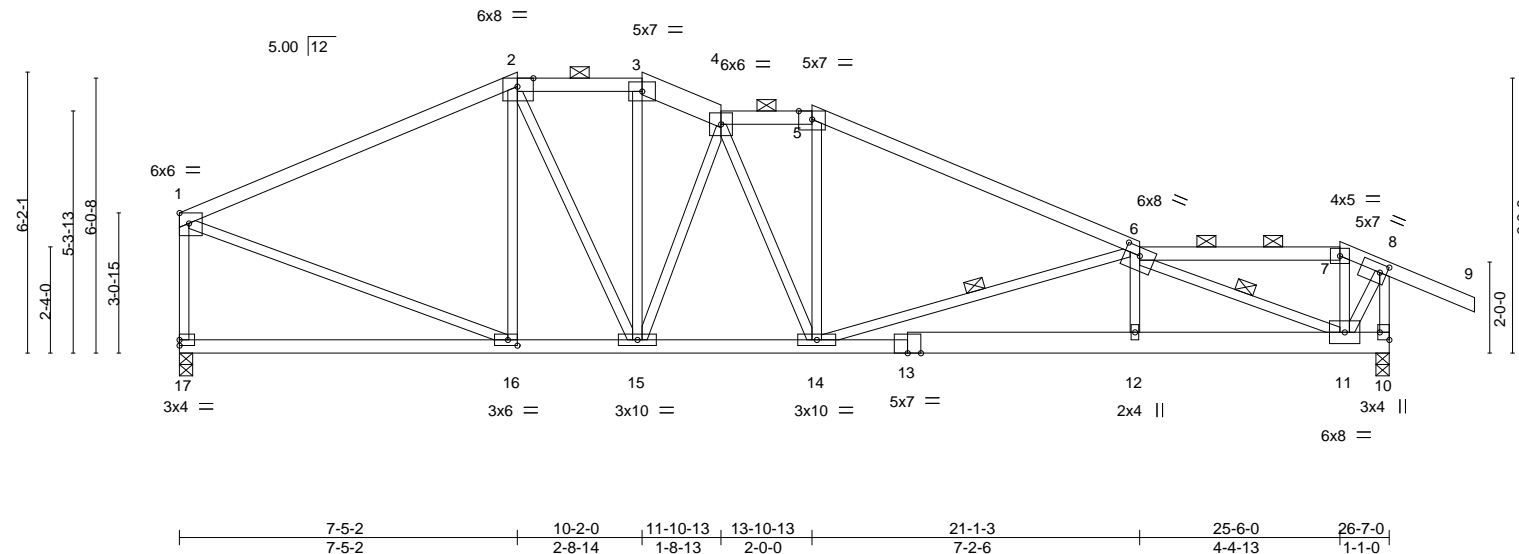


Plate Offsets (X,Y)--		[1:Edge,0-2-12], [2:0-4-3,Edge], [6:0-4-0,0-2-3], [8:0-1-13,0-2-3], [10:Edge,0-2-8], [16:0-2-8,0-1-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	<b>L/d</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.12 12-14	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.22 12-14	>999	240
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.60	Horz(CT)	0.05 10	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.09 12-14	>999	240
						Weight: 122 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2 *Except* 1-2,5-6: 2x4 SPF 2100F 1.8E, 3-4: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-12 max.): 2-3, 4-5, 6-7.
BOT CHORD 2x4 SPF No.2 *Except* 10-13: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x3 SPF No.2	WEBS 1 Row at midpt 6-14, 6-11

**REACTIONS.** (size) 17=0-3-8, 10=0-3-8  
 Max Horz 17=-124(LC 6)  
 Max Uplift 17=-101(LC 8), 10=-333(LC 9)  
 Max Grav 17=1179(LC 1), 10=1255(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1290/171, 2-3=-1262/228, 3-4=-1364/229, 4-5=-1561/291, 5-6=-1790/265, 6-7=-481/128, 7-8=-555/143, 1-17=-1112/137, 8-10=-1339/326  
 BOT CHORD 15-16=-57/1112, 14-15=-120/1502, 12-14=-373/2452, 11-12=-377/2447  
 WEBS 2-16=-274/114, 2-15=-116/468, 3-15=-60/367, 4-15=-722/179, 5-14=0/320, 6-14=-923/234, 6-11=-2182/305, 1-16=-83/1130, 8-11=-210/1032

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=101, 10=333.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 80 lb up at 25-6-0 on top chord, and 139 lb down and 746 lb up at 25-4-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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

  
 August 21,2020

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/21/2020</div> </div>			Ply	1	Lot 74 RR - Raising Hope House 2021	I42521664
400477	E5	Roof Special	Girder					Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			<div> <div>8.410 s</div> <div>May 22 2020</div> <div>MiTek Industries, Inc.</div> <div>Fri Aug 21 06:00:12 2020</div> <div>Page 2</div> </div> <div> <div>ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-Qg_7XxNFjzizhQvWkN6RAu?0E0YanpZxO1UF24ylj51</div> </div>						

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 10-17=-20

Concentrated Loads (lb)

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

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job

400477

Truss

G1

Truss Type

Half Hip Girder

Lot 74 RR - Raising Hope House 2021

I42521665

Wheeler Lumber,

Waverly, KS 66871

8.410 s May 22 2020

MiTek Industries, Inc.

Fri Aug 21 06:00:13 2020

Page 1

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20-2-3

6-7-8

25-7-0

5-4-13

26-5-8

0-10-8

6-10-0

6-10-0

13-6-11

6-8-12

20-2-3

6-7-8

25-7-0

5-4-13

26-5-8

0-10-8

08/21/2020

Scale = 1:46.0

RELEASE FOR

CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

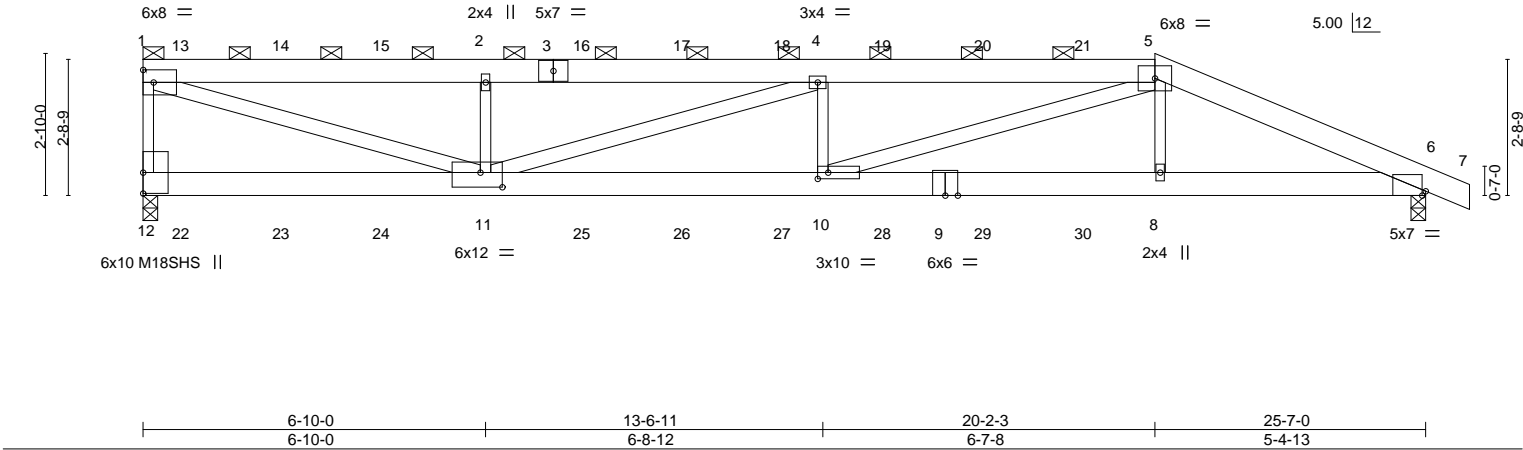


Plate Offsets (X,Y)--		[6:0-0-14,Edge], [10:0-2-8,0-1-8], [11:0-5-4,0-3-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.96
TCDL 10.0	Lumber DOL	1.15	BC 0.96
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.68
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
DEFL.	in (loc)	L/defl	L/d
Vert(LL)	-0.30 10-11	>999	360
Vert(CT)	-0.56 10-11	>546	240
Horz(CT)	0.09 6	n/a	n/a
Wind(LL)	0.26 10-11	>999	240
PLATES	GRIP		
MT20	197/144		
M18SHS	197/144		
Weight: 124 lb	FT = 10%		

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except* 3-5: 2x6 SPF 1650F 1.4E	TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-1 max.): 1-5.
BOT CHORD 2x6 SPF No.2 *Except* 9-12: 2x6 SPF 1650F 1.4E	BOT CHORD Rigid ceiling directly applied or 8-0-1 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-11,4-11,5-10: 2x4 SPF 2100F 1.8E	

REACTIONS.	(size) 12=0-3-8, 6=0-3-8 Max Horz 12=-103(LC 4) Max Uplift 12=-428(LC 4), 6=-397(LC 5) Max Grav 12=2125(LC 1), 6=2054(LC 1)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-12=-1971/487, 1-2=-4799/986, 2-4=-4799/986, 4-5=-6090/1255, 5-6=-4493/872
BOT CHORD	10-11=-1176/6086, 8-10=-745/4029, 6-8=-745/4054
WEBS	1-11=-1008/4983, 2-11=-874/405, 4-11=-1358/290, 4-10=-474/304, 5-10=-457/2277, 5-8=-3/588

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=428, 6=397.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 113 lb down and 88 lb up at 0-9-8, 108 lb down and 90 lb up at 2-9-8, 108 lb down and 90 lb up at 4-9-8, 108 lb down and 90 lb up at 6-9-8, 108 lb down and 90 lb up at 8-9-8, 108 lb down and 90 lb up at 10-9-8, 108 lb down and 90 lb up at 12-9-8, 108 lb down and 90 lb up at 14-9-8, and 108 lb down and 90 lb up at 16-9-8, and 108 lb down and 90 lb up at 18-9-8 on top chord, and 73 lb down at 0-9-8, 67 lb down at 2-9-8, 67 lb down at 4-9-8, 67 lb down at 6-9-8, 67 lb down at 8-9-8, 67 lb down at 10-9-8, 67 lb down at 12-9-8, 67 lb down at 14-9-8, 67 lb down at 16-9-8, and 67 lb down at 18-9-8, and 354 lb down and 117 lb up at 20-2-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- On the CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



August 21,2020

Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> <b>08/21/2020</b>		Lot 74 RR - Raising Hope House 2021
400477	G1	Half Hip Girder	Ply	1	I42521665
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:13 2020 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-vsYVkhOtUHqqJaUiI4dgi6Y6oQqUWFg5dhDpbWylj50		

**LOAD CASE(S)**
Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-5=-70, 5-7=-70, 6-12=-20
- Concentrated Loads (lb)
- Vert: 11=-43(F) 2=-103(F) 8=-354(F) 13=-113(F) 14=-103(F) 15=-103(F) 16=-103(F) 17=-103(F) 18=-103(F) 19=-103(F) 20=-103(F) 21=-103(F) 22=-46(F) 23=-43(F) 24=-43(F) 25=-43(F) 26=-43(F) 27=-43(F) 28=-43(F) 29=-43(F) 30=-43(F)


**WARNING** - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017



Job 400477

Truss G2

Truss Type Roof Special

Wheeler Lumber, Waverly, KS 66871

**RELEASE FOR CONSTRUCTION**

**AS NOTED ON PLANS REVIEW**

**DEVELOPMENT SERVICES**

**LEE'S SUMMIT, MISSOURI**

08/21/2020

Ply 1

Lot 74 RR - Raising Hope House 2021

Job Reference (optional)

Page 1

4-3-1

8-6-7

13-2-11

4-8-4

4-3-1

4-3-6

4-8-4

2-0-0

15-2-11

19-9-6

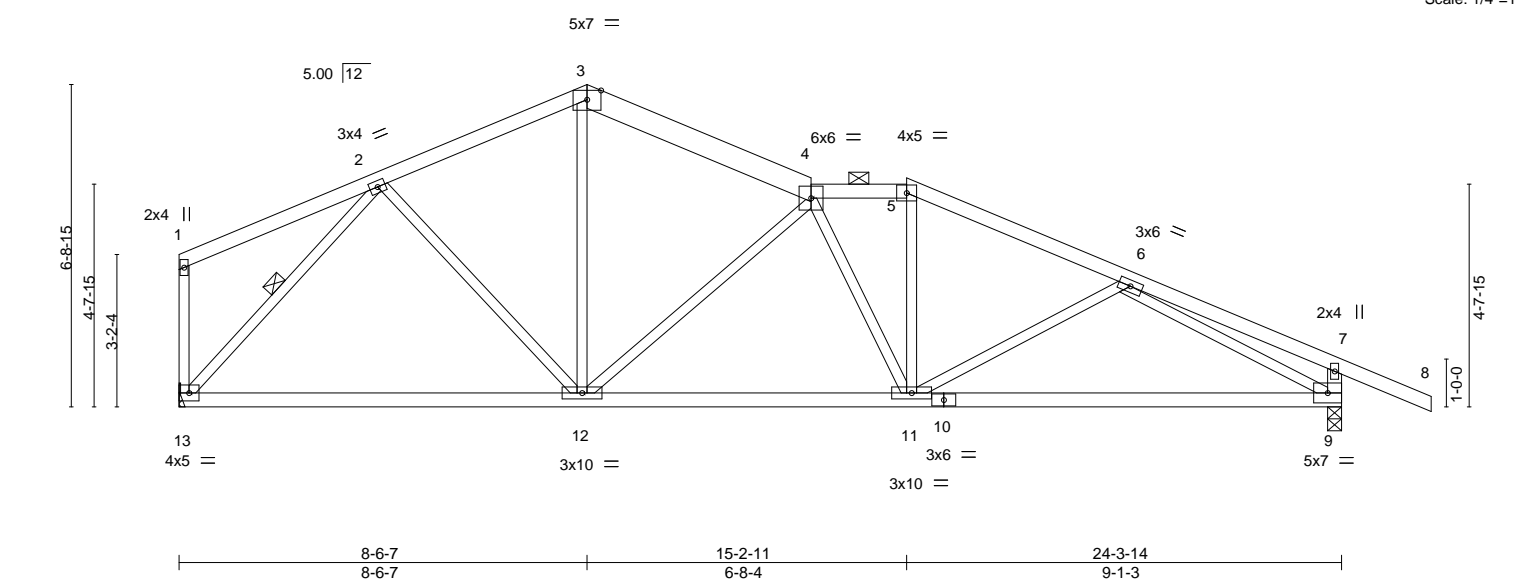
4-6-11

24-3-14

4-6-8

1-10-8

Scale: 1/4"=1'



Job  
400477

Truss  
G3

Truss Type  
Roof Special

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

08/21/2020

Ply  
1

Lot 74 RR - Raising Hope House 2021

142521667

Wheeler Lumber, Waverly, KS 66871

Job Reference (optional)

8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:17 2020 Page 1

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3-3-10  
3-3-10

8-1-6  
4-9-12

8-11-8  
0-10-2

11-9-14  
5-10-6

16-9-14  
2-0-0

24-3-14  
7-6-0

26-2-6  
1-10-8

Scale = 1:45.7

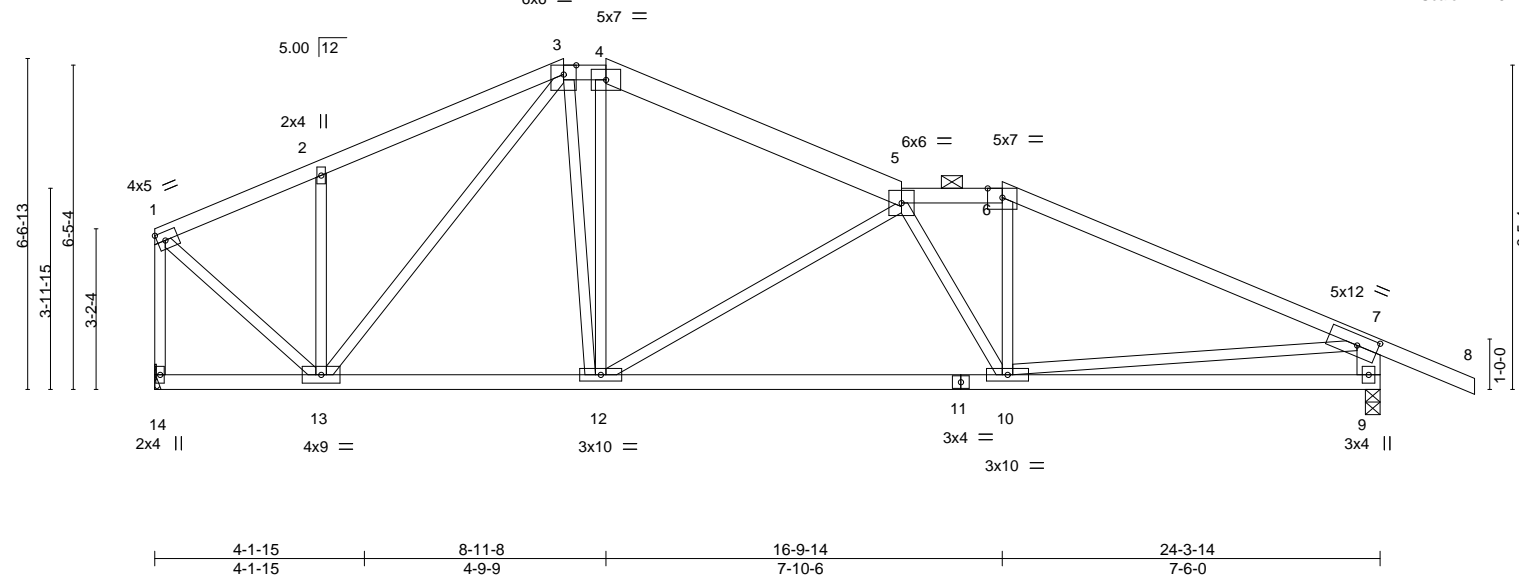


Plate Offsets (X,Y)--		[7:0-4-15,0-2-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.77
TCDL 10.0	Lumber DOL	1.15	BC 0.59
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			<b>DEFL.</b>
			in (loc) l/defl L/d
			Vert(LL) -0.10 10-12 >999 360
			Vert(CT) -0.22 10-12 >999 240
			Horz(CT) 0.03 9 n/a n/a
			Wind(LL) 0.03 10-12 >999 240
			<b>PLATES</b>
			MT20
			<b>GRIP</b>
			197/144
			Weight: 107 lb FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-12 max.): 3-4, 5-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 7-9: 2x6 SPF No.2	

**REACTIONS.** (size) 14=Mechanical, 9=0-3-8  
Max Horz 14=-110(LC 6)  
Max Uplift 9=-50(LC 9)  
Max Grav 14=1073(LC 1), 9=1233(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-813/27, 2-3=-852/63, 3-4=-994/65, 4-5=-1133/47, 5-6=-1471/62, 6-7=-1709/40,  
1-14=-1045/8, 7-9=-1165/88  
BOT CHORD 12-13=0/947, 10-12=0/1626, 9-10=-69/416  
WEBS 2-13=-318/101, 3-13=-398/0, 3-12=-20/506, 5-12=-747/89, 5-10=-317/30, 6-10=0/351,  
1-13=0/984, 7-10=0/1068

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21,2020

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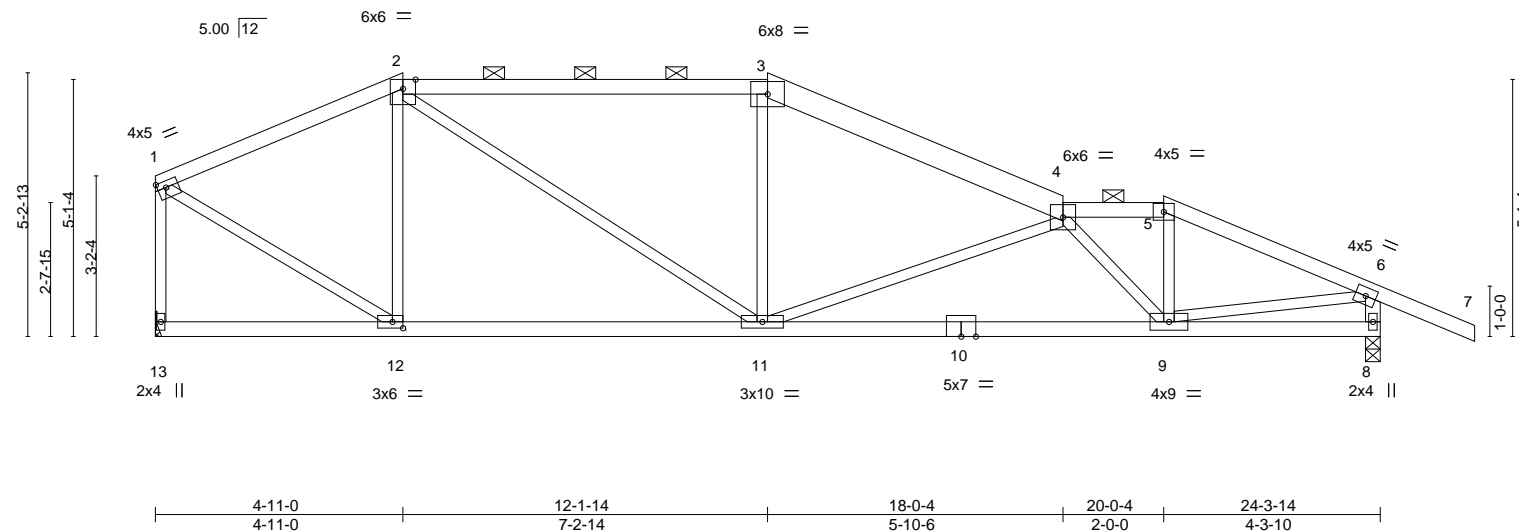


16023 Swingley Ridge Rd  
Chesterfield, MO 63017

16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>		Ply	Lot 74 RR - Raising Hope House 2021
400477	G5	Roof Special			1	I42521669
Wheeler Lumber, Waverly, KS 66871			Job Reference (optional) ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-FqLOn?S0JpT6PLMg5eDrP9F4xRcEBWTqmyxaFkyilj4x 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:18 2020 Page 1			
4-11-0 4-11-0			12-1-14 7-2-14		18-0-4 5-10-6	
20-0-4 2-0-0			24-3-14 4-3-10		26-2-6 1-10-8	

Scale = 1:45.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.11 9-11	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.25 9-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.04 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.04 9-11	>999	240	Weight: 98 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 4-2-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-15 max.): 2-3, 4-5.
2-3: 2x4 SPF 2100F 1.8E, 3-4: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x4 SPF No.2	
WEBS 2x3 SPF No.2 *Except*	
6-8: 2x4 SPF No.2	

<b>REACTIONS.</b>	(size) 13=Mechanical, 8=0-3-8
	Max Horz 13=-110(LC 6)
	Max Uplift 13=-3(LC 4), 8=-39(LC 5)
	Max Grav 13=1077(LC 1), 8=1231(LC 1)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1007/45, 2-3=-1396/48, 3-4=-1560/37, 4-5=-1489/21, 5-6=-1692/7, 1-13=-1040/22, 6-8=-1194/51
BOT CHORD	11-12=0/893, 9-11=0/2020
WEBS	2-12=-417/82, 2-11=-19/660, 4-11=-675/94, 4-9=-806/51, 5-9=0/459, 1-12=-8/1021, 6-9=0/1437

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



August 21,2020

Job: 400477

Truss: G6

Truss Type: Roof Special

**RELEASE FOR**

**CONSTRUCTION**

**AS NOTED ON PLANS REVIEW**

**DEVELOPMENT SERVICES**

**LEE'S SUMMIT, MISSOURI**

**08/21/2020**

Ply: 1

Lot 74 RR - Raising Hope House 2021

Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

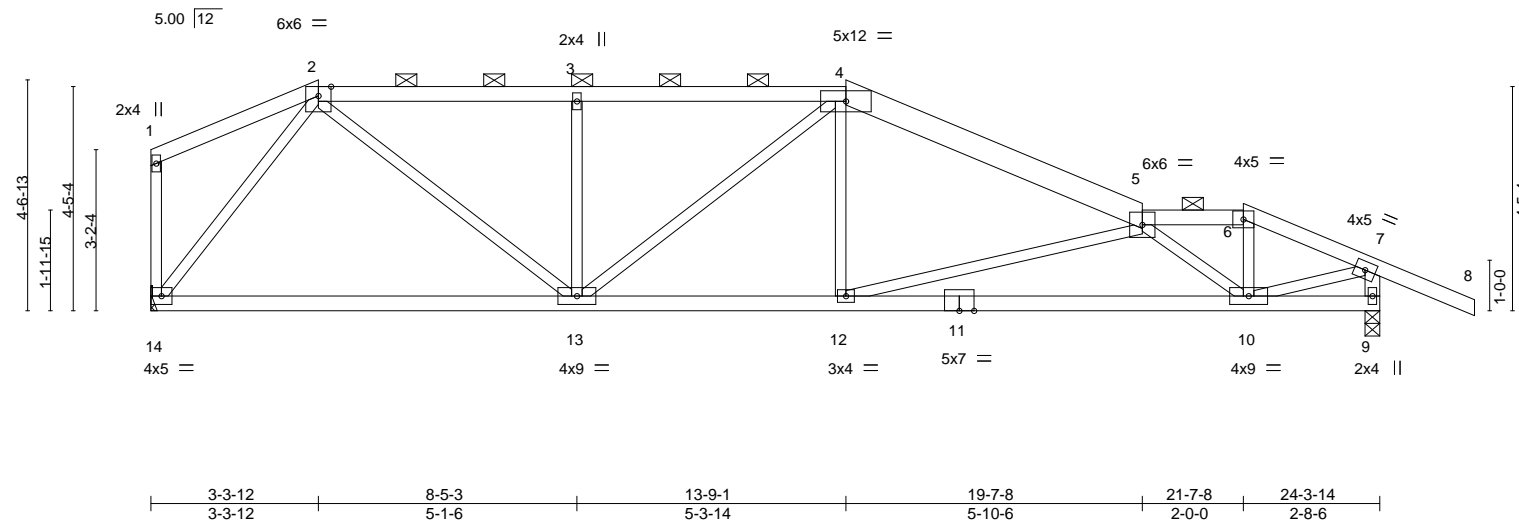
8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:19 2020 Page 1

ID: Ej7EWovY\_94Pzt7UvY1gWAZ\_t70-j0vn?LTte47bz1Vxsflk4yNolbrxWwxNz?cg7nAylj4w

3-3-12 8-5-3 13-9-1 19-7-8 21-7-8 24-3-14 26-2-6

3-3-12 5-1-6 5-3-14 5-10-6 2-0-0 2-8-6 1-10-8

Scale = 1:45.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.16 13-14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.34 13-14	>854	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.05 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.06 10-12	>999	240	Weight: 97 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-3 max.): 2-4, 5-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.
WEBS 2x3 SPF No.2 *Except* 7-9: 2x4 SPF No.2	

**REACTIONS.** (size) 14=Mechanical, 9=0-3-8  
 Max Horz 14=-139(LC 4)  
 Max Uplift 14=-143(LC 4), 9=-189(LC 5)  
 Max Grav 14=1077(LC 1), 9=1231(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1480/263, 3-4=-1478/261, 4-5=-1743/247, 5-6=-1321/122, 6-7=-1495/125, 7-9=-1223/173  
 BOT CHORD 13-14=-477/03, 12-13=-129/1564, 10-12=-244/2235  
 WEBS 2-13=-118/1025, 3-13=-429/173, 4-12=0/372, 5-12=-706/207, 5-10=-1182/227, 6-10=-17/450, 2-14=-1122/219, 7-10=-103/1417

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=143, 9=189.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21, 2020



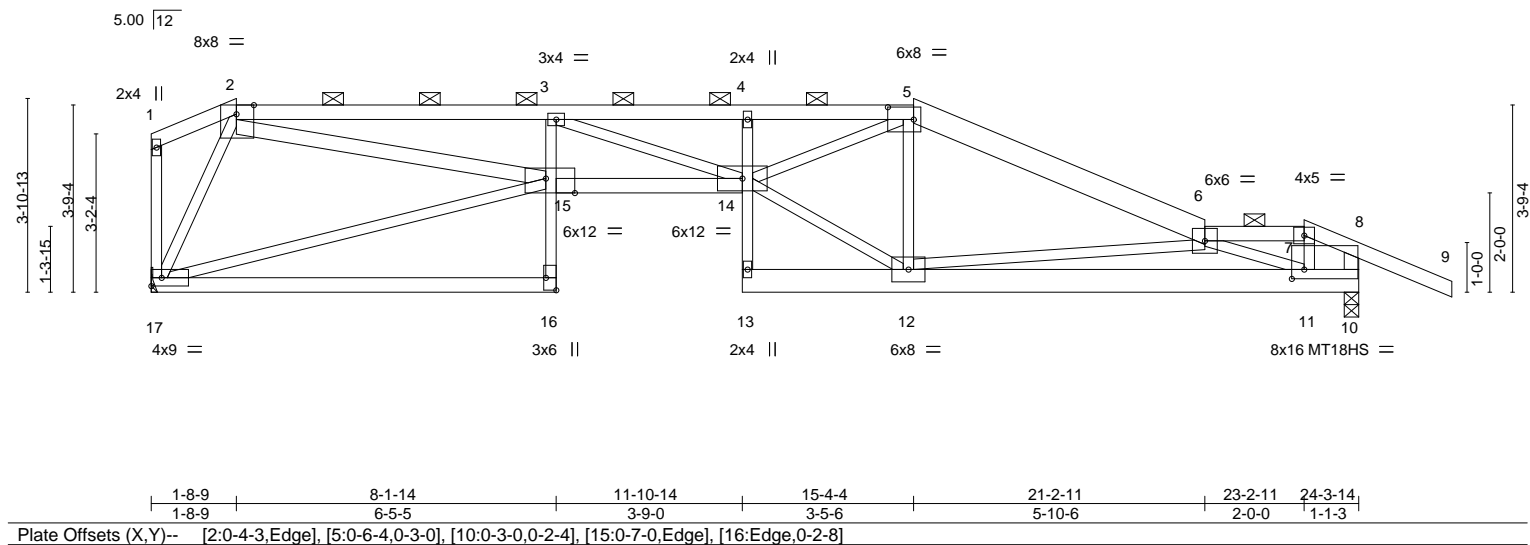
**RELEASE FOR CONSTRUCTION**  
**AS NOTED ON PLANS REVIEW**  
**DEVELOPMENT SERVICES**  
**LEE'S SUMMIT, MISSOURI**  
**08/21/2020**

Job 400477	Truss G7	Truss Type Roof Special	Girder	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871			<div style="text-align: right;">142521671</div> <div style="font-size: small;">             8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:21 2020 Page 1              ID:Ej7EWovY_94Pzt7UVy1gWAZ_i70-gP1XQ0UuckrhGp5FmmnY1otXdeeZOpIGTW9Es2ylj4u           </div>		

1-8-98-1-1411-10-1415-4-421-2-1123-2-1124-3-1426-2-6

1-8-96-5-53-9-03-5-65-10-62-0-01-1-31-10-8

Scale = 1:46.4



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.34	14-15	>854	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.61	14-15	>474	240	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.29	10	n/a	n/a	Weight: 114 lb FT = 10%	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.25	14-15	>999	240		

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 2-5: 2x4 SPF 2100F 1.8E, 5-6: 2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-8-13 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-14 max.): 2-5, 6-7.
BOT CHORD	2x3 SPF No.2 *Except* 16-17: 2x4 SPF No.2, 14-15: 2x4 SPF 2100F 1.8E 10-13: 2x6 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.
WEBS	2x3 SPF No.2 *Except* 2-15: 2x4 SPF No.2, 8-10: 2x4 SPF 2100F 1.8E		

REACTIONS.	
(size)	10=0-3-8, 17=Mechanical
Max Horz	17=-139(LC 6)
Max Uplift	10=-266(LC 5), 17=-171(LC 4)
Max Grav	10=1167(LC 1), 17=1075(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-4045/668, 3-4=-4295/641, 4-5=-4238/639, 5-6=-2008/294, 6-7=-534/79, 7-8=-701/100, 8-10=-649/131
BOT CHORD	3-15=-483/169, 14-15=-549/4094, 11-12=-349/2491, 10-11=-87/588
WEBS	15-17=-50/471, 2-15=-537/3592, 12-14=-204/1997, 5-14=-381/2691, 5-12=-742/162, 6-12=-697/243, 6-11=-2163/390, 7-11=-86/382, 2-17=-1238/274


- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=266, 17=171.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 12 lb up at 23-2-11 on top chord, and 167 lb down and 873 lb up at 23-1-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2


**LOAD CASE(S)** Standard

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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



August 21, 2020



16023 Swingley Ridge Rd  
Chesterfield, MO 63017



Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> <b>08/21/2020</b>			Ply	1	Lot 74 RR - Raising Hope House 2021	I42521671
400477	G7	Roof Special	Girder					Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:21 2020 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-gP1XQ0UuckrhGp5FmmnY1otXdeeZOplGTw9Es2ylj4u						

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 16-17=-20, 14-15=-20, 10-13=-20

Concentrated Loads (lb)

Vert: 11=66(B)



Job  
400477

Truss  
G8

Truss Type  
Half Hip

**RELEASE FOR**

**CONSTRUCTION**

**AS NOTED ON PLANS REVIEW**

**DEVELOPMENT SERVICES**

**LEE'S SUMMIT, MISSOURI**

08/21/2020

Ply  
1

Lot 74 RR - Raising Hope House 2021

142521672

Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:22 2020 Page 1

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5-7-14  
5-7-14

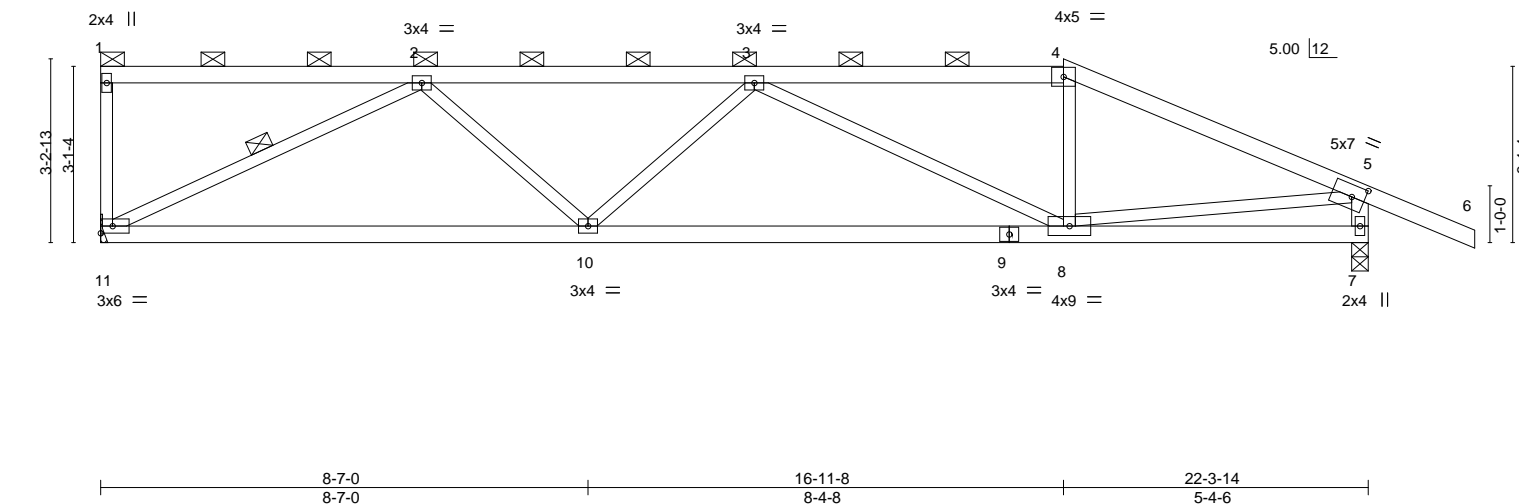
11-6-2  
5-10-4

16-11-8  
5-5-6

22-3-14  
5-4-6

24-2-6  
1-10-8

Scale = 1:40.6



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.14 10-11 >999 360	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.31 10-11 >859 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.05 7 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.05 8-10 >999 240			Weight: 79 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-3-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-11 max.): 1-4.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 5-7: 2x4 SPF No.2	WEBS	1 Row at midpt 2-11

**REACTIONS.** (size) 11=Mechanical, 7=0-3-8  
 Max Horz 11=-104(LC 6)  
 Max Uplift 11=-50(LC 4), 7=-60(LC 5)  
 Max Grav 11=987(LC 1), 7=1141(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1834/57, 3-4=-1381/48, 4-5=-1577/39, 5-7=-1096/81  
 BOT CHORD 10-11=-52/1505, 8-10=-57/1969  
 WEBS 2-11=-1649/122, 2-10=0/501, 3-8=-729/85, 4-8=0/316, 5-8=-9/1244

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 7.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21,2020

Scale = 1:41.3

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SPF No.2 *Except* 2-3,3-4: 2x6 SPF No.2, 4-6: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 4-6-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-0 max.): 1-2, 4-6.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 7-9: 2x4 SPF No.2		

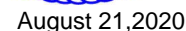
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

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

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

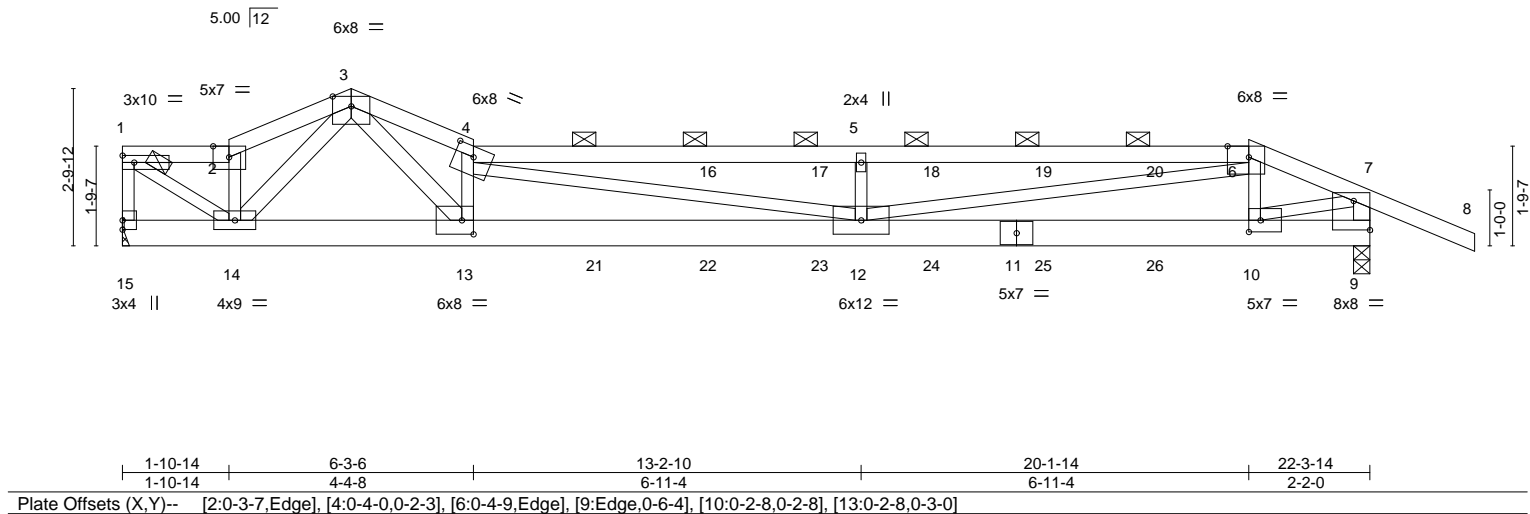
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate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



**RELEASE FOR CONSTRUCTION**  
**AS NOTED ON PLANS REVIEW**  
**DEVELOPMENT SERVICES**  
**LEE'S SUMMIT, MISSOURI**  
 ID: E7EWovY\_94PztUVy1gWAZ\_t70-rFgG9zQ70u5YYud5QVg8oXds7EaD\_4RO4?iwlPylj5\_

Job 400477	Truss G10	Truss Type Roof Special	Girder	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:15 2020 Page 1 13-2-10 08/21/2020 20-1-14 22-3-14 24-2-6 6-11-4 6-11-4 2-2-0 1-10-8		

Scale = 1:41.2



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.35 12-13 >766 360	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.63 12-13 >418 240				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.05 9 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.30 12-13 >880 240	Weight: 95 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 4-6: 2x4 SPF 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied or 2-7-14 oc purlins, except end verticals, and 2-0-0 oc purlins (2-9-7 max.): 1-2, 4-6.
BOT CHORD	2x6 SPF 1650F 1.4E *Except* 9-11: 2x6 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.
WEBS	2x3 SPF No.2 *Except* 3-14,3-13,7-9: 2x4 SPF No.2		

REACTIONS.	
(size)	15=Mechanical, 9=0-3-8
Max Horz	15=-73(LC 4)
Max Uplift	15=-177(LC 9), 9=-305(LC 9)
Max Grav	15=1143(LC 1), 9=1230(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-15=-1051/170, 1-2=-1295/223, 2-3=-1380/251, 3-4=-4208/844, 4-5=-4374/949, 5-6=-4374/949, 6-7=-1676/370, 7-9=-1311/307
BOT CHORD	13-14=-237/1594, 12-13=-723/3941, 10-12=-323/1585
WEBS	1-14=-252/1563, 2-14=-609/119, 3-14=-572/139, 3-13=-687/3358, 4-13=-2157/522, 4-12=-185/542, 5-12=-537/258, 6-12=-587/2846, 6-10=-434/134, 7-10=-360/1681


- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=177, 9=305.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 41 lb up at 10-6-7, 65 lb down and 41 lb up at 14-6-7, 65 lb down and 41 lb up at 16-6-7, and 65 lb down and 41 lb up at 18-6-7 on top chord, and 250 lb down and 74 lb up at 8-6-2, 19 lb down at 10-6-7, 19 lb down at 12-6-7, 19 lb down at 14-6-7, 19 lb down at 16-6-7, and 19 lb down at 18-6-7, and 97 lb down and 287 lb up at 20-1-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2


**LOAD CASE(S)** Standard

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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August 21, 2020



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/21/2020</div> </div>			Ply	1	Lot 74 RR - Raising Hope House 2021	I42521674
400477	G10	Roof Special	Girder					Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			<div> <div>8.410 s</div> <div>May 22 2020</div> <div>MiTek Industries, Inc.</div> <div>Fri Aug 21 06:00:15 2020</div> <div>Page 2</div> <div>ID:Ej7EWovY_94PztUVy1gWAz_t70-rFgG9zQ70u5YYud5QVg8oXdS7EaD_4RO4?iwfPylj5_</div> </div>						

LOAD CASE(S) Standard

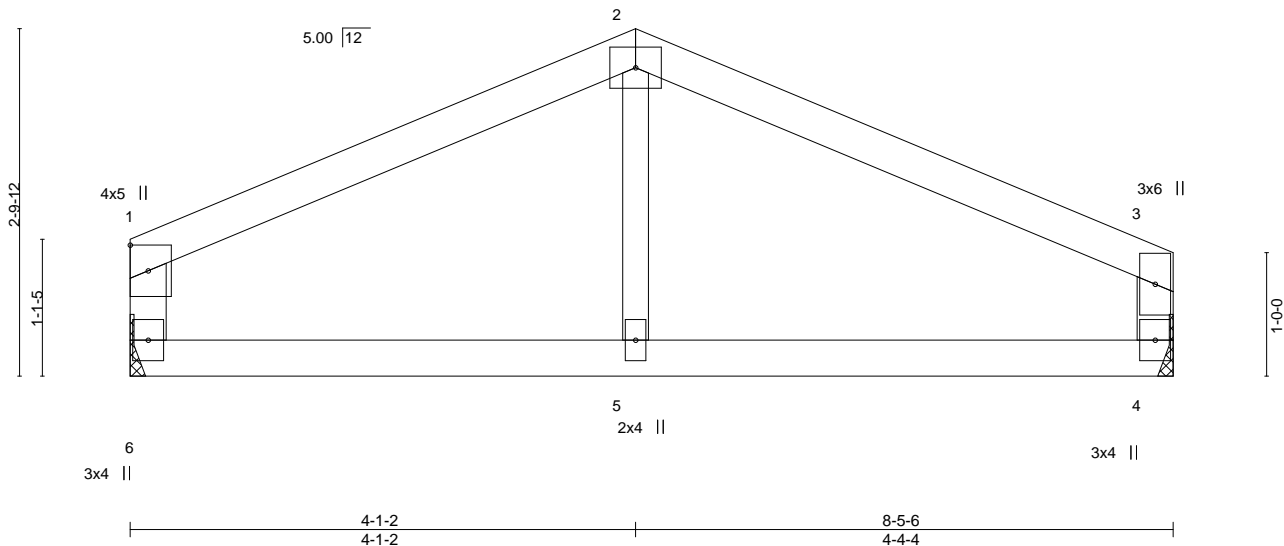
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
  - Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 6-7=-70, 7-8=-70, 9-15=-20
- Concentrated Loads (lb)
  - Vert: 10=14(B) 16=-2(B) 17=-2(B) 18=-2(B) 19=-2(B) 20=-2(B) 21=-250(B) 22=-0(B) 23=-0(B) 24=-0(B) 25=-0(B) 26=-0(B)



Job 400477	Truss H1	Truss Type Common	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b>  <b>08/21/2020</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID: Ej7EWovY_94Pzt7UVy1gWAz_170-cn9HqiW98M5PW6FduBp06Dy0XSP3sx5ZwEeLwxyli4s
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Wheeler Lumber, Waverly, KS 66871

Scale = 1:18.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.03	5	>999	360	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.06	5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	5	>999	240	Weight: 23 lb	FT = 10%

<b>LUMBER-</b>				<b>BRACING-</b>	
TOP CHORD	2x4 SPF No.2			TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2			BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except*				
	2-5: 2x3 SPF No.2				

<b>REACTIONS.</b>	(size) 6=Mechanical, 4=Mechanical
	Max Horz 6=-27(LC 6)
	Max Uplift 6=-4(LC 8), 4=-5(LC 9)
	Max Grav 6=367(LC 1), 4=367(LC 1)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-371/21, 2-3=-373/19, 1-6=-285/29, 3-4=-289/32
BOT CHORD	5-6=0/284, 4-5=0/284

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



August 21,2020



Job: 400477

Truss: H2

Truss Type: Common

Wheeler Lumber, Waverly, KS 66871

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

08/21/2020

Ply: 1

Lot 74 RR - Raising Hope House 2021

Job Reference (optional)

8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:24 2020 Page 1

ID: Ej7EWovY\_94Pzt7UVV1gWAZ\_t70-4zig22XnvfDG7GqpRuKFfQV7bsmhbOFi9uOuTNylj4r

-1-10-8

1-10-8

4-4-4

4-4-4

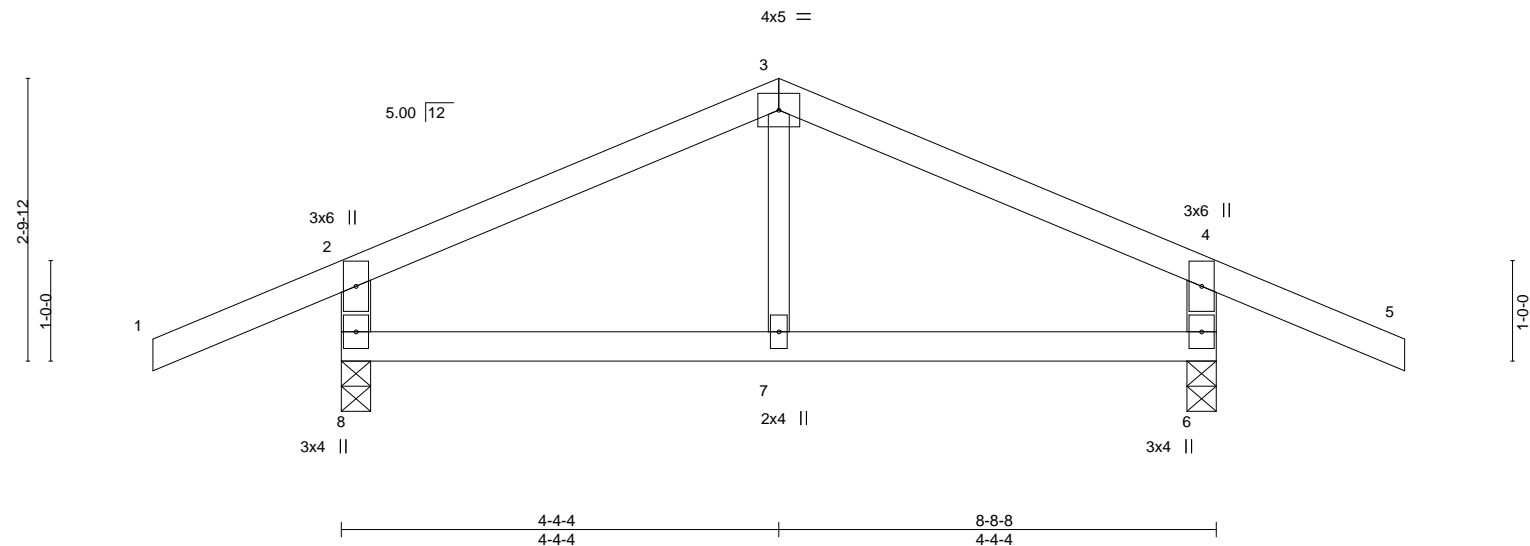
8-8-8

4-4-4

10-7-0

1-10-8

Scale = 1:22.9



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

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except*	
3-7: 2x3 SPF No.2	

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

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-343/51, 3-4=-343/51, 2-8=-447/123, 4-6=-447/123

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 21,2020

Job	Truss	Truss Type	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>		Ply	Lot 74 RR - Raising Hope House 2021	I42521677
400477	H3	Hip	<div style="text-align: center;"> <b>08/21/2020</b> </div>		1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		ID:Ej7EWovY_94Pzt7UVy1gWAz_i70-YAG2FOXPgZL7IQO0?crUCe2IWG5gKqnsNY7R?ylij4q		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:25 2020 Page 1			
-1-10-8 1-10-8		2-10-0 2-10-0		5-10-8 3-0-8		8-8-8 2-10-0	
						10-7-0 1-10-8	

Scale = 1:23.7

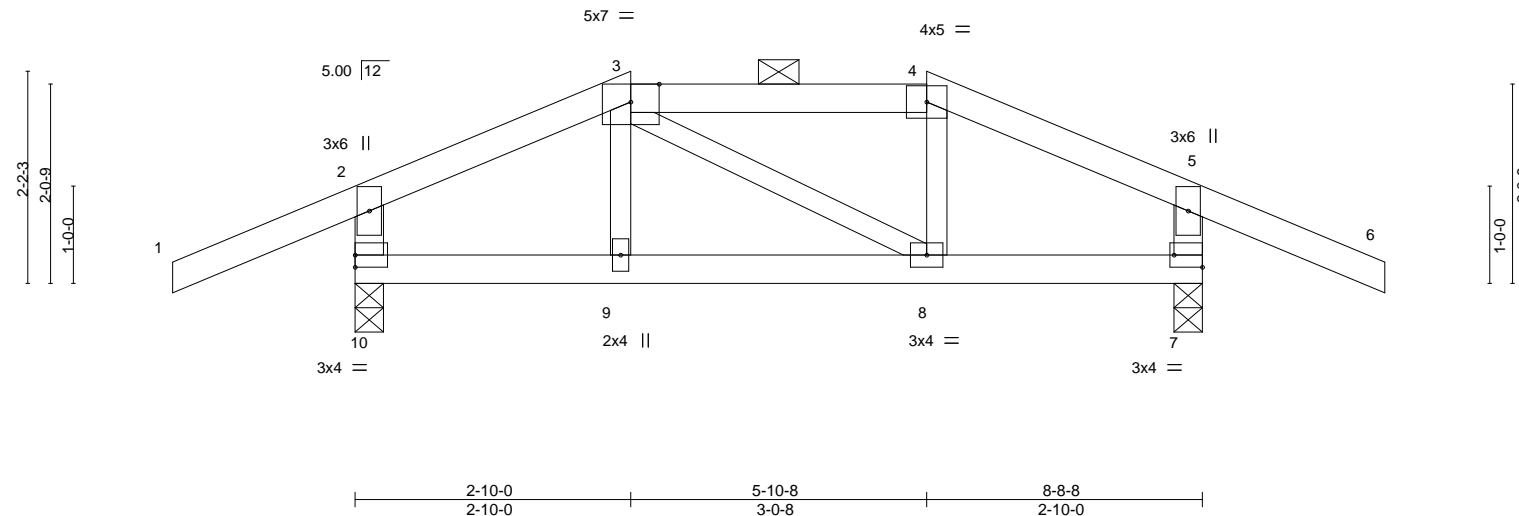


Plate Offsets (X,Y)-- [7:Edge,0-1-8]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	L/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.04 8-9	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.07 8-9	>999	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)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

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-10,5-7: 2x4 SPF No.2	

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

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-360/48, 3-4=-272/54, 4-5=-360/48, 2-10=-434/113, 5-7=-434/113
BOT CHORD	9-10=0/272, 8-9=0/272, 7-8=0/272

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=107, 7=107.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21, 2020

Job 400477	Truss H4	Truss Type Hip Girder	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b>  <b>08/21/2020</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521678 Job Reference (optional) ID:Ej7EWovY_94PztUVy1gWAZ_t70-0MqQTkY1QHT_NazCZJMjkrQ1fTc3G??cCt?XGylj4p
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Wheeler Lumber, Waverly, KS 66871

1-10-8 1-10-8 1-2-13 1-2-13 7-5-11 7-5-11 6-2-14 6-2-14 8-8-8 8-8-8 10-7-0 10-7-0 1-10-8 1-10-8

Scale = 1:23.7

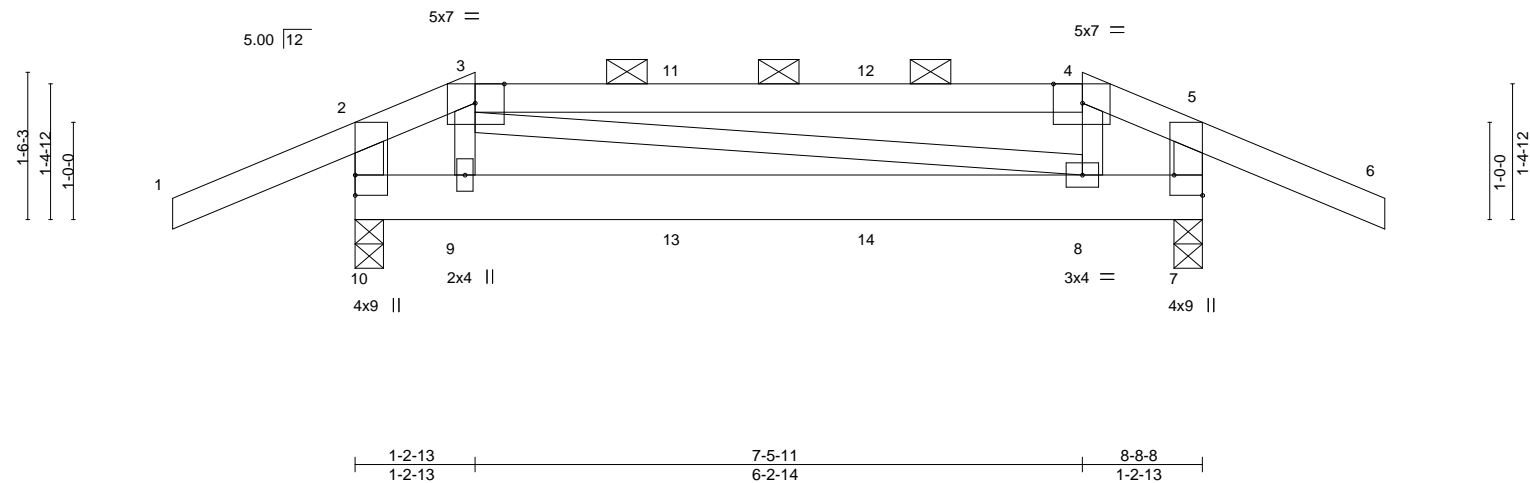


Plate Offsets (X,Y)--		[3:0-3-9,Edge], [4:0-3-9,Edge], [7:Edge,0-3-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.61
TCDL 10.0	Lumber DOL	1.15	BC 0.19
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.09
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			<b>DEFL.</b>
			in (loc)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

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-10,5-7: 2x4 SPF No.2	

<b>REACTIONS.</b>	(size) 10=0-3-8, 7=0-3-8
	Max Horz 10=24(LC 7)
	Max Uplift 10=-397(LC 29), 7=-397(LC 28)
	Max Grav 10=499(LC 45), 7=499(LC 44)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-401/415, 3-4=-350/289, 4-5=-395/413, 2-10=-303/225, 5-7=-309/232
BOT CHORD	9-10=-348/375, 8-9=-297/380, 7-8=-336/362
WEBS	3-9=-500/127, 4-8=-517/139

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 10=397, 7=397.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 45 lb down and 12 lb up at 1-2-13, 50 lb down and 12 lb up at 3-4-4, and 50 lb down and 12 lb up at 5-4-4, and 45 lb down and 12 lb up at 7-5-11 on top chord, and 141 lb down and 737 lb up at 1-2-13, 14 lb down and 16 lb up at 3-4-4, and 14 lb down and 16 lb up at 5-4-4, and 141 lb down and 737 lb up at 7-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

<b>LOAD CASE(S)</b> Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Continued on page 2



August 21, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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

**MiTek**  
16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/21/2020</div> </div>		Lot 74 RR - Raising Hope House 2021
400477	H4	Hip Girder	Ply	1	I42521678
Wheeler Lumber, Waverly, KS 66871			<div> <div>8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:26 2020 Page 2</div> <div>ID:Ej7EWovY_94Pzt7UVytgWAZ_t70-0MqQTkY1QHT_NazCZJMjkraQ1fTc3G??cCt?XGylj4p</div> </div>		

**LOAD CASE(S)** Standard  
 Concentrated Loads (lb)  
 Vert: 9=53(B) 8=53(B)



Job 400477	Truss J2	Truss Type Jack-Open	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> ID: Ej7EWovY_94Pzt7UVy1gWAZ_170-nvJS8Te2YkUrKoak1?Wc3Xvu5uDIxvBBSSpQpoylj4h 08/21/2020	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521680 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:34 2020 Page 1 1gWAZ_170-nvJS8Te2YkUrKoak1?Wc3Xvu5uDIxvBBSSpQpoylj4h
Wheeler Lumber, Waverly, KS 66871					

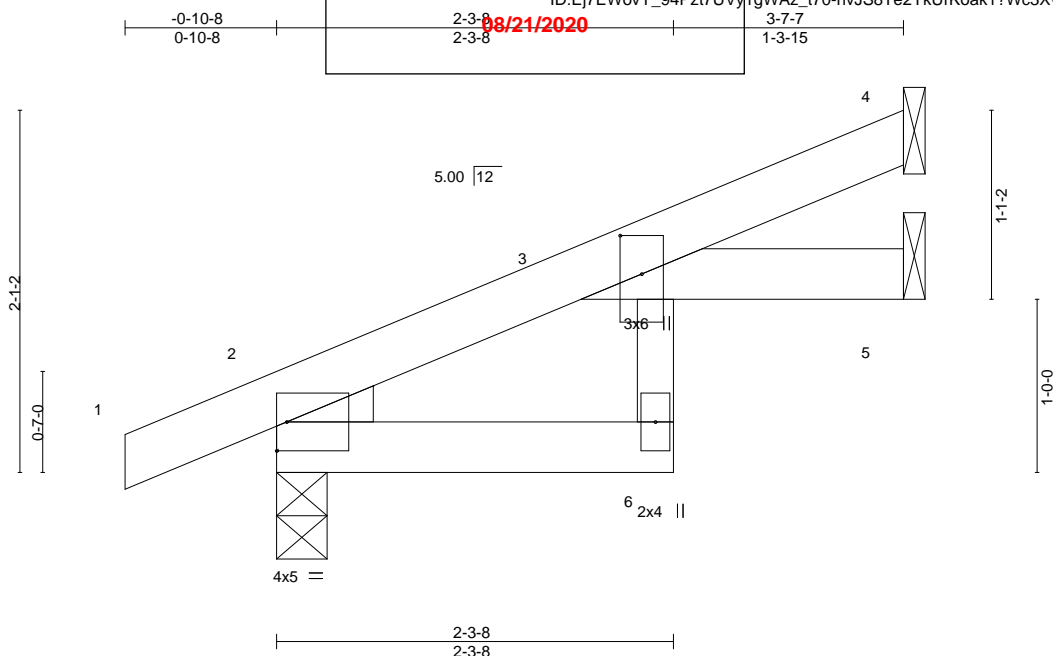


Plate Offsets (X,Y)--		[3:0-2-11,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.22
TCDL 10.0	Lumber DOL	1.15	BC 0.07
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.02 6 >999 360
			Vert(CT) -0.04 6 >925 240
			Horz(CT) 0.02 5 n/a n/a
			Wind(LL) 0.03 6 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 11 lb FT = 10%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x3 SPF No.2  
 WEDGE  
 Left: 2x3 SPF No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical  
 Max Horz 2=75(LC 8)  
 Max Uplift 4=-52(LC 8), 2=-34(LC 8)  
 Max Grav 4=129(LC 1), 2=240(LC 1), 5=37(LC 3)

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

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



August 21, 2020

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

**MiTek**  
 16023 Swingley Ridge Rd  
 Chesterfield, MO 63017



Job 400477	Truss J3	Truss Type Jack-Open	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID: Ej7EWovY_94Pzt7UVy1gWAZ_170-4FE5cskRuuMsgtd5xz8Fr0i3RicF44uD31?IZuyIj4a
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:41 2020 Page 1 Scale = 1:13.8			

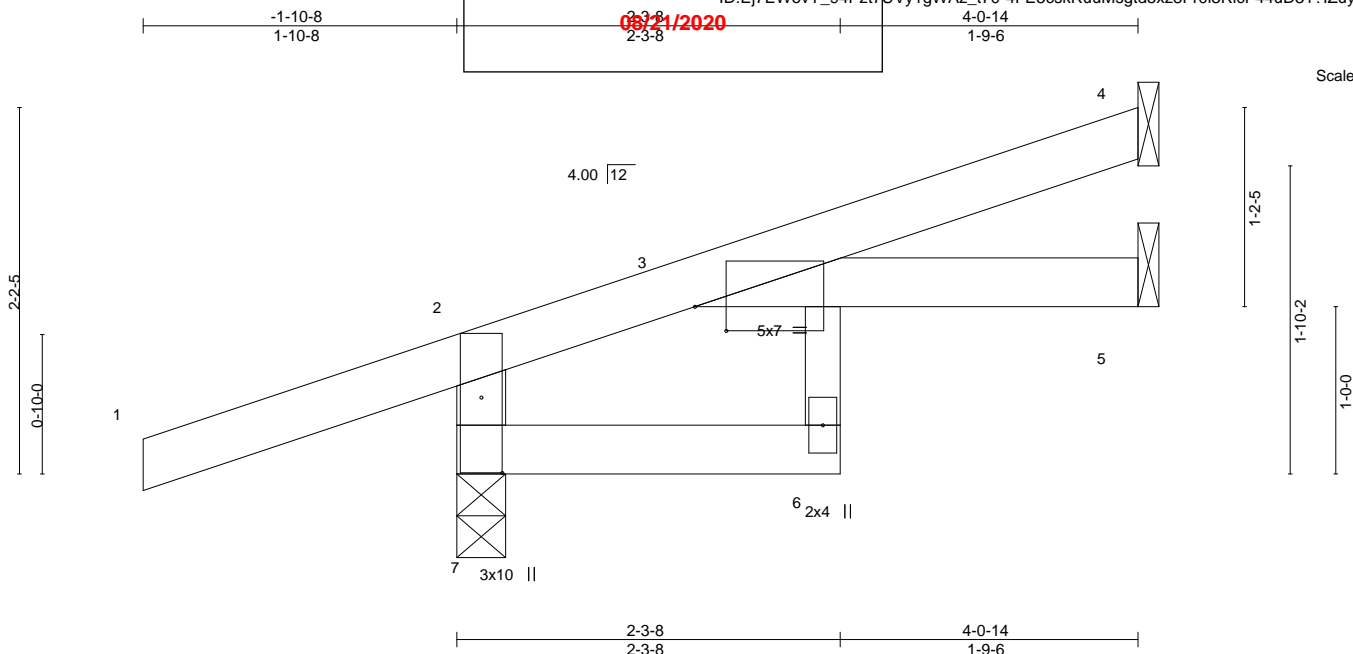


Plate Offsets (X,Y)--		[3:0-2-4,0-1-12], [7:0-5-6,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(LL) -0.02 6 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Vert(CT) -0.04 6 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) 0.02 5 n/a n/a
			Wind(LL) 0.02 6 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 14 lb FT = 10%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-0-14 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 7=117.
  - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 21, 2020

			<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</div>			
Job	Truss	Truss Type	On	Ply	Lot 74 RR - Raising Hope House 2021	
400477	J4	Jack-Open	1	1	I42521682	
Wheeler Lumber,		Waverly, KS 66871	Job Reference (optional)			
8,410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:47 2020 Page 1						
ID:EJ7EWovY_94Pzt7UVy1gWAZ_t70-vPbMtvoCuk7?Oo4EIDEf5Hy5w7fHUnd5RzScnYylj4U						
		-1-10-8	08/21/2020		1-6-14	
		1-10-8			1-6-14	

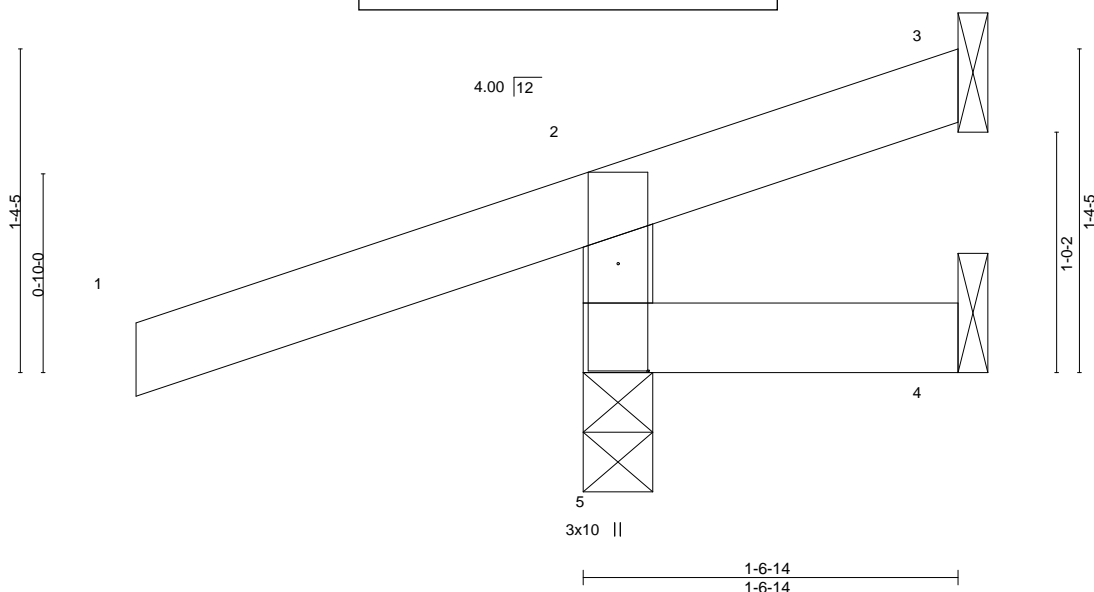


Plate Offsets (X,Y)--		[5:0-5-6,0-1-8]			
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) 0.00 5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.00 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) -0.00 5 >999 240	Weight: 6 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-6-14 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

**REACTIONS.** (size) 5=0-3-8, 3=Mechanical, 4=Mechanical  
 Max Horz 5=46(LC 4)  
 Max Uplift 5=143(LC 4), 3=22(LC 1), 4=16(LC 1)  
 Max Grav 5=306(LC 1), 3=16(LC 4), 4=18(LC 4)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=143.
  - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 21, 2020

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

**MiTek**  
 16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job 400477	Truss J5	Truss Type Jack-Open	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b>		Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-kZzd7ztz3at96jXOeUL3KYC4FYeguV6_qvww_Cylj40
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:53 2020 Page 1 08/21/2020		

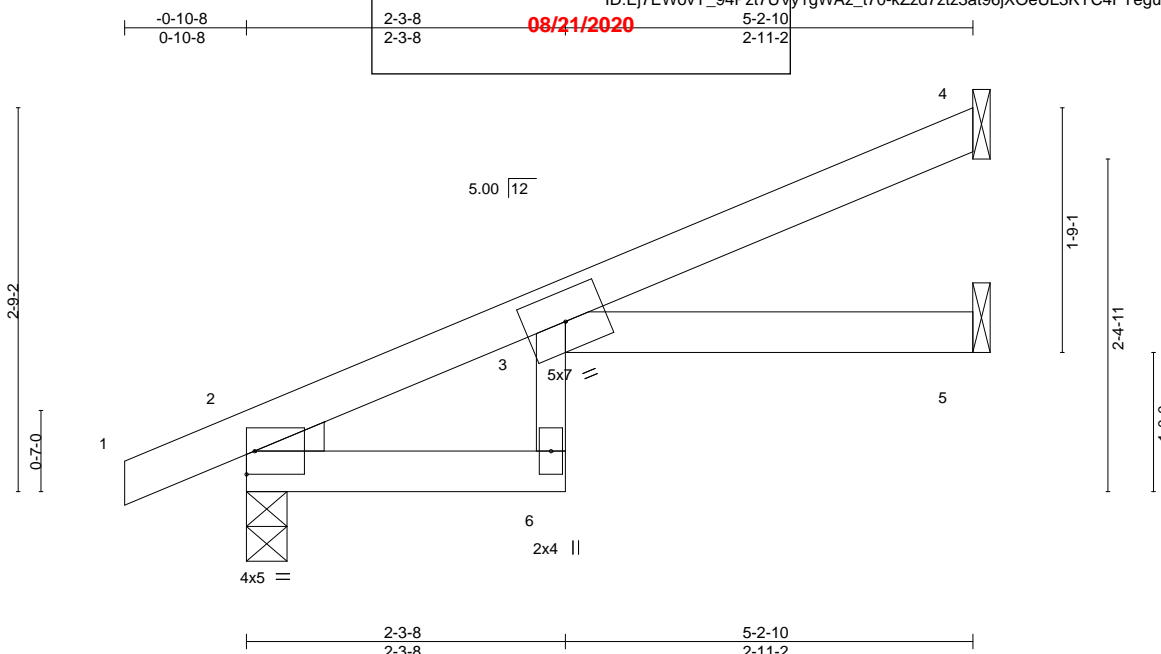


Plate Offsets (X,Y)--		[3:0-0-0,0-0-1]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.48	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(LL) -0.06 3 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.10 3 >583 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.07 5 n/a n/a
			Wind(LL) 0.06 3 >966 240
			<b>PLATES</b> MT20
			<b>GRIP</b> 197/144
			Weight: 15 lb FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-10 oc purlins.
BOT CHORD 2x4 SPF No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
3-6: 2x3 SPF No.2	
<b>WEDGE</b>	
Left: 2x3 SPF No.2	

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical  
 Max Horz 2=102(LC 8)  
 Max Uplift 4=-58(LC 8), 2=-44(LC 8), 5=-6(LC 8)  
 Max Grav 4=135(LC 1), 2=304(LC 1), 5=87(LC 3)

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

#### NOTES-

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



August 21, 2020

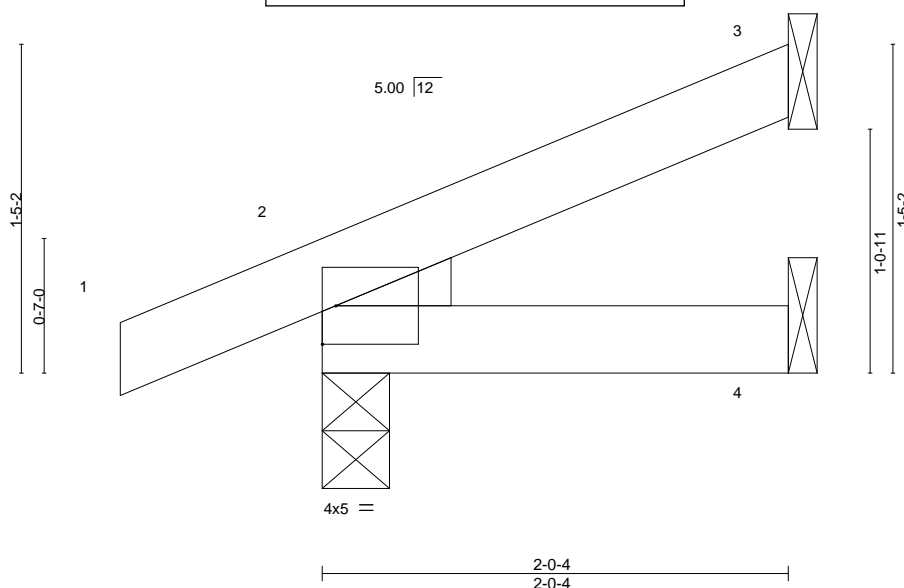
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> 08/21/2020		Lot 74 RR - Raising Hope House 2021	I42521684
400477	J6	Jack-Open			Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:53 2020 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-kZzd7ztz3at96jXOeUL3KYCAmYjRuV6_qvww_Cylj40			
			-0-10-8 0-10-8			
			2-0-4 2-0-4			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	2-4	>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-P	Wind(LL)	0.00	2	****	240	Weight: 6 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
Max Horz 2=48(LC 8)  
Max Uplift 3=33(LC 8), 2=36(LC 4)  
Max Grav 3=43(LC 1), 2=173(LC 1), 4=36(LC 3)

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

#### NOTES-

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



August 21, 2020

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16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job 400477	Truss J7	Truss Type Jack-Closed	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> 08/21/2020		Ply 1 Lot 74 RR - Raising Hope House 2021 I42521685 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:54 2020 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-CIW?LLubqt?0kt6aCBsItlkDBY_zdyM72ZfUWeylj4N
Wheeler Lumber, Waverly, KS 66871					

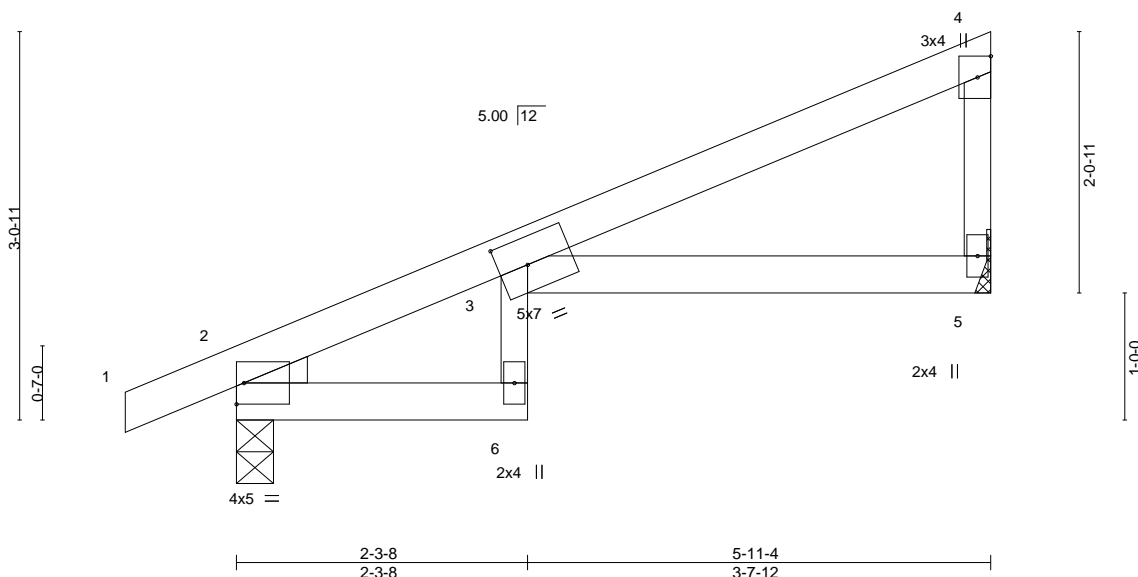


Plate Offsets (X,Y)--		[3:0-2-12,0-2-9]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.60	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(LL) -0.10 6 >711 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.17 6 >397 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.11 5 n/a n/a
			Wind(LL) 0.10 6 >705 240
			<b>PLATES</b> MT20
			<b>GRIP</b> 197/144
			Weight: 18 lb FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 3-6: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	
WEDGE Left: 2x3 SPF No.2	

<b>REACTIONS.</b>	(size) 5=Mechanical, 2=0-3-8
	Max Horz 2=104(LC 5)
	Max Uplift 5=61(LC 8), 2=58(LC 8)
	Max Grav 5=250(LC 1), 2=334(LC 1)

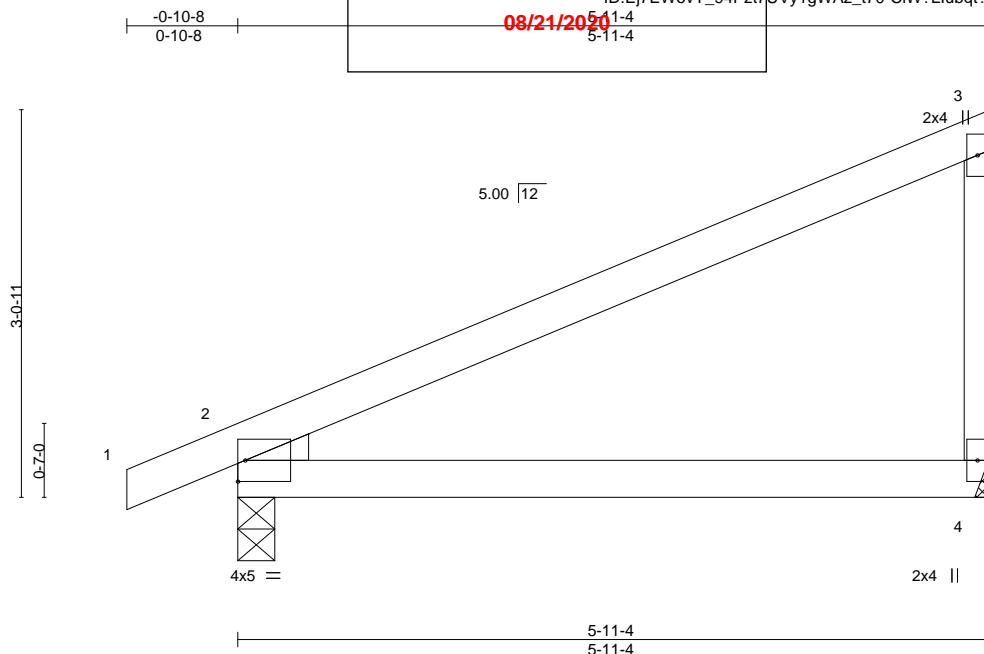
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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



August 21, 2020

Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b>		Ply	Lot 74 RR - Raising Hope House 2021
400477	J8	Jack-Closed			1	I42521686
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) ID:EJ7EWovY_94Pzt7UVy1gWAZ_t70-CIW?Llubqt?0kt6aCBsItlkDAY_jdyM72ZfUWeylj4N				



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.06	2-4	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.13	2-4	>544	240	197/144
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-P	Wind(LL)	0.00	2	****	240	
									Weight: 18 lb FT = 10%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8  
 Max Horz 2=120(LC 5)  
 Max Uplift 4=-59(LC 8), 2=-60(LC 8)  
 Max Grav 4=250(LC 1), 2=334(LC 1)

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

#### NOTES-

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



August 21, 2020

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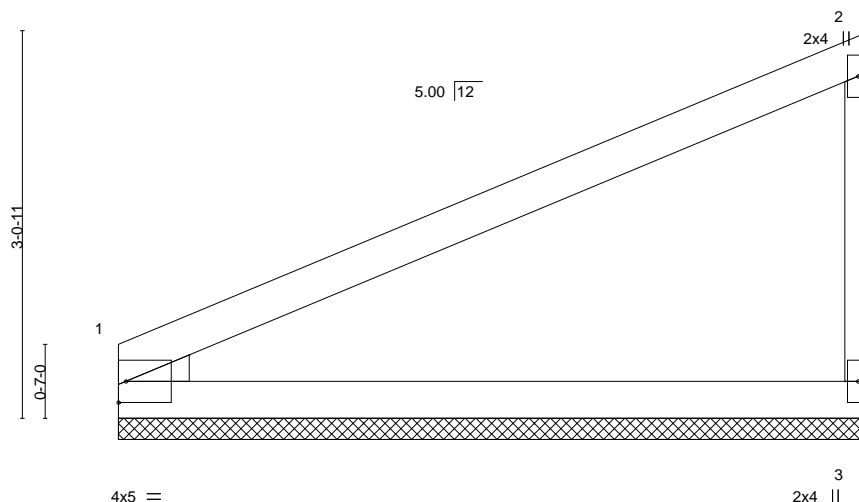


16023 Swingley Ridge Rd  
 Chesterfield, MO 63017



Job	Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</div>		Lot 74 RR - Raising Hope House 2021	I42521687
400477	J9	Jack-Closed	1	1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871		ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-gx4OYevDb7sL1hnmvOXpZHNkMJfMPcGHDO134ylj4M 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:55 2020 Page 1 08/21/2020 5-11-4				

Scale = 1:18.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 17 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

#### NOTES-

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



August 21, 2020

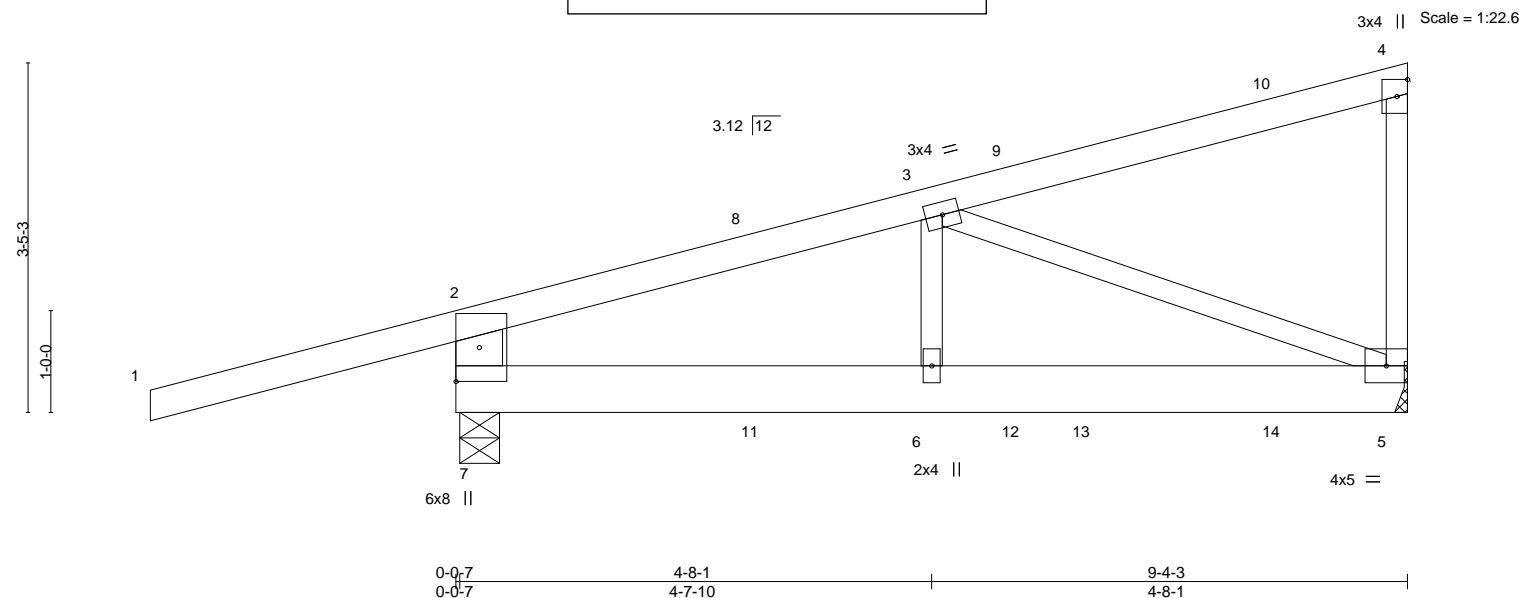
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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

			<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/21/2020</div>					
Job	Truss	Truss Type	Girder	Ply		Lot 74 RR - Raising Hope House 2021		
400477	J10	Diagonal Hip		1	1	I42521688		
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)		
						ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-zlyAuPaHyujct7bgkPBpGfiYT41X7L4WM6c8ylj4n		
-3-0-0						4-8-1		
3-0-0						4-8-1		
						9-4-3		
						4-8-1		



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL)	-0.05 5-6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.08 5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.29	Horz(CT)	0.00 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.04 5-6	>999	240	Weight: 39 lb	FT = 10%

#### LUMBER-

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

#### 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) 7=0-4-11, 5=Mechanical  
 Max Horz 7=145(LC 5)  
 Max Uplift 7=-266(LC 4), 5=-149(LC 8)  
 Max Grav 7=715(LC 1), 5=535(LC 1)

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

TOP CHORD 2-7=-554/247, 2-3=-563/132  
 BOT CHORD 6-7=-165/481, 5-6=-165/481  
 WEBS 3-5=-490/167

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=266, 5=149.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 94 lb up at 2-11-15, 78 lb down and 36 lb up at 3-0-9, and 79 lb down and 54 lb up at 5-6-11, and 102 lb down and 86 lb up at 8-1-6 on top chord, and 10 lb down and 16 lb up at 2-11-15, 9 lb down and 7 lb up at 3-0-9, 16 lb down and 2 lb up at 5-6-11, and 168 lb down and 75 lb up at 6-2-15, and 40 lb down at 8-1-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-70, 2-4=-70, 5-7=-20  
 Concentrated Loads (lb)  
 Vert: 8=26(B) 10=-54(B) 11=7(F) 12=2(B) 13=-168(F) 14=-25(B)



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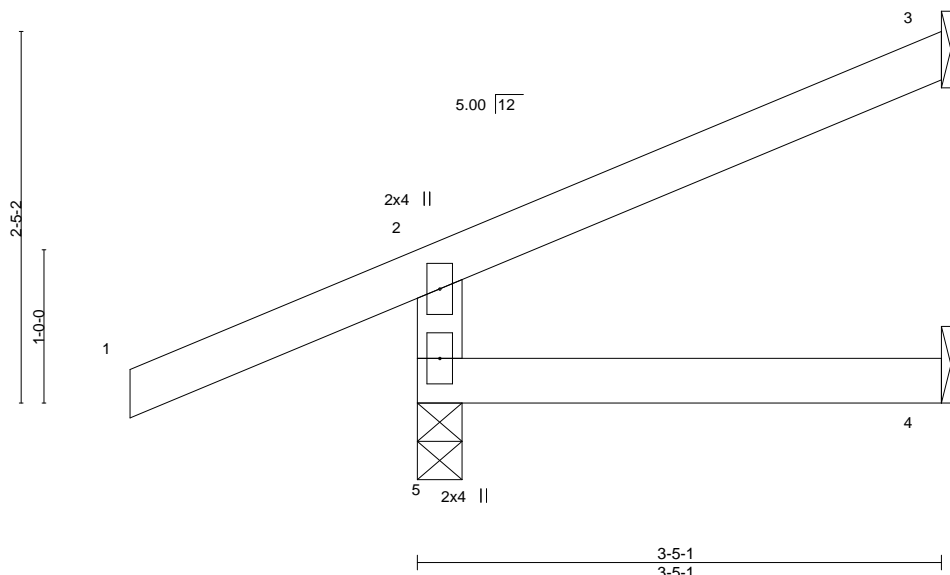


16023 Swingley Ridge Rd  
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Job 400477	Truss J12	Truss Type Jack-Open	<b>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</b>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521690
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:29 2020 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-RxWZ5lavjCrZE1nERwQMUC0PtW3GeARIA5f8bylj4m		Job Reference (optional)
			-1-10-8 1-10-8	08/21/2020	3-5-1 3-5-1

Scale = 1:15.0



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

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-1 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 5=0-3-8, 3=Mechanical, 4=Mechanical  
Max Horz 5=73(LC 8)  
Max Uplift 5=71(LC 4), 3=-48(LC 8)  
Max Grav 5=330(LC 1), 3=77(LC 1), 4=57(LC 3)

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

#### NOTES-

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



August 21, 2020

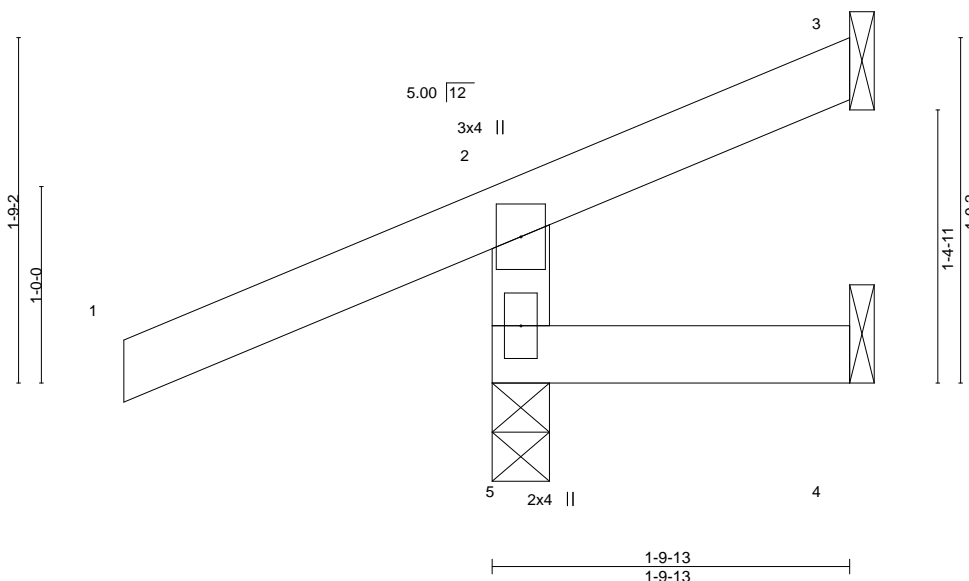
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Job 400477	Truss J13	Truss Type Jack-Open	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b>		Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-v74x15bYUVzPrBHzo9RfvhlB9HrK?5QbXqrCg1ylj4l
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:30 2020 Page 1 08/21/2020			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	-0.00	5	>999	240	Weight: 7 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

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

**REACTIONS.** (size) 5=0-3-8, 3=Mechanical, 4=Mechanical  
 Max Horz 5=53(LC 5)  
 Max Uplift 5=87(LC 4), 3=-14(LC 8), 4=-7(LC 1)  
 Max Grav 5=302(LC 1), 3=4(LC 4), 4=24(LC 3)

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

#### NOTES-

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



August 21, 2020

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Job 400477	Truss J14	Truss Type Jack-Closed	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> <b>08/21/2020</b>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID: Ej7EWovY_94Pzt7UVy1gWAZ_t70-v74x15bYUVzPrBHzo9RfvhlB2HpM?5QbXqrCg1ylj4l
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Wheeler Lumber, Waverly, KS 66871

Scale = 1:16.5

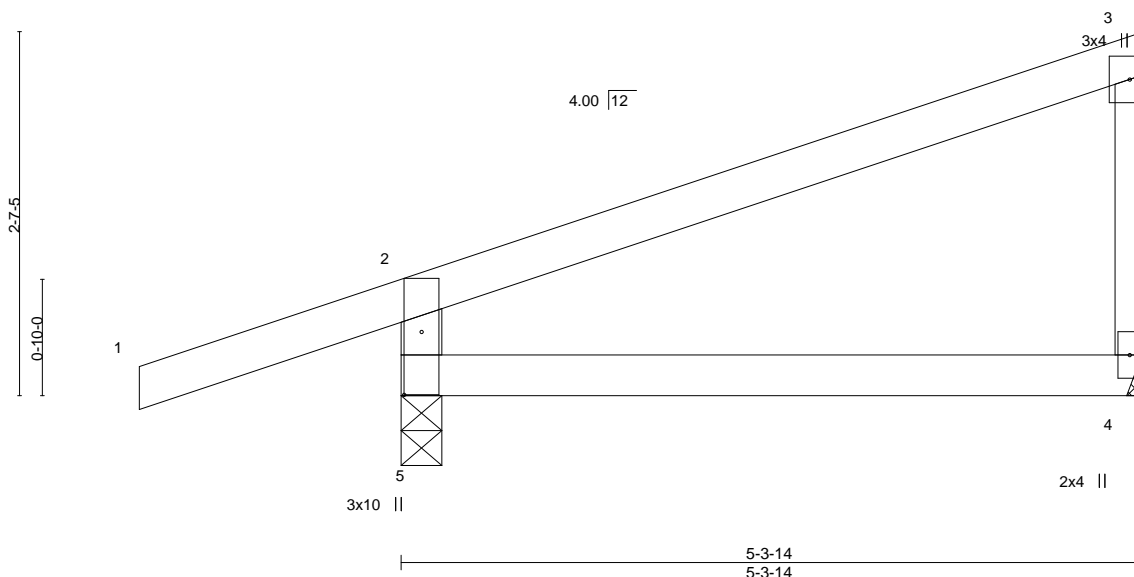


Plate Offsets (X,Y)--		[5:0-5-6,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.29	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(LL) -0.03 4-5 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.05 4-5 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) -0.00 4 n/a n/a
			Wind(LL) 0.01 4-5 >999 240
			PLATES MT20 GRIP 197/144
			Weight: 17 lb FT = 10%

**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 5-3-14 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=136.
  - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 21, 2020

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 Chesterfield, MO 63017



<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

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

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



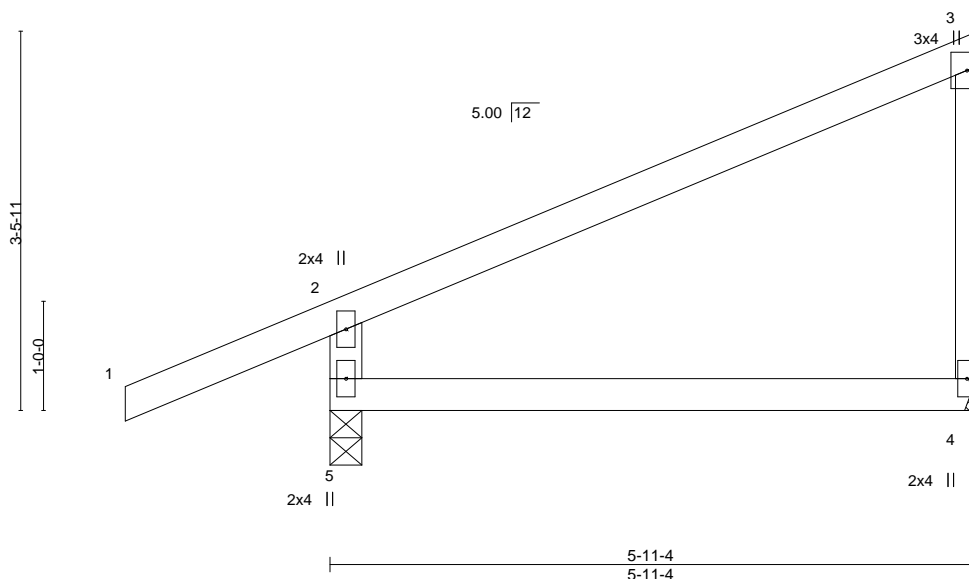
August 21, 2020

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16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b>		Ply	Lot 74 RR - Raising Hope House 2021
400477	J16	Jack-Closed			1	I42521694
Wheeler Lumber, Waverly, KS 66871		ID: Ej7EWovY_94Pzt7UVy1gWAZ_t70-NKdJWRcAFp6GTLsAMsyuRvHLLg8ckYgkmUamCTylj4k 08/21/2020				



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

#### 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 5-11-4 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 5=0-3-8, 4=Mechanical  
 Max Horz 5=150(LC 5)  
 Max Uplift 5=-85(LC 8), 4=-56(LC 8)  
 Max Grav 5=423(LC 1), 4=231(LC 1)

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

TOP CHORD 2-5=-373/129

#### NOTES-

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



August 21, 2020

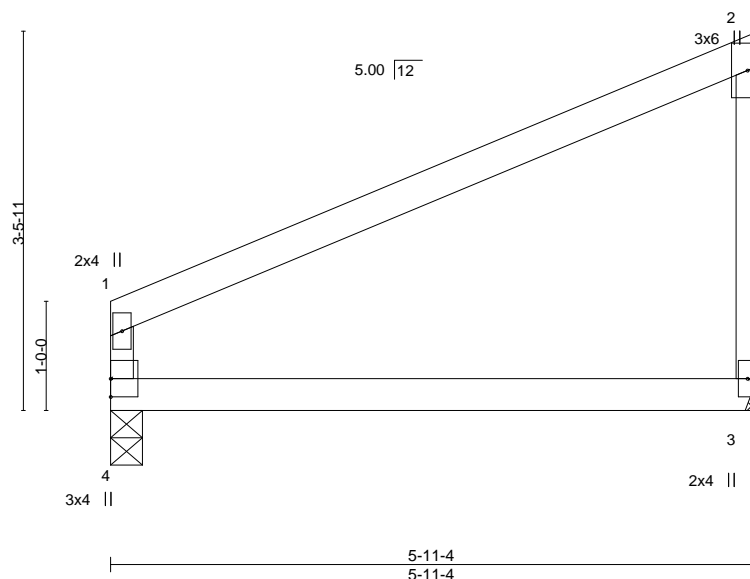
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 Chesterfield, MO 63017

Job	Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</div>		Ply	Lot 74 RR - Raising Hope House 2021	I42521695
400477	J17	Jack-Closed			2 1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:32 2020 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-rWBhndo07E75VRMvaT7_6qUC4UYT?wu_8KJlwyIj4j			
				08/21/2020			



Scale = 1:21.1

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

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 4=0-3-8, 3=Mechanical  
 Max Horz 4=133(LC 5)  
 Max Uplift 4=-33(LC 8), 3=-63(LC 8)  
 Max Grav 4=258(LC 1), 3=258(LC 1)

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

#### NOTES-

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



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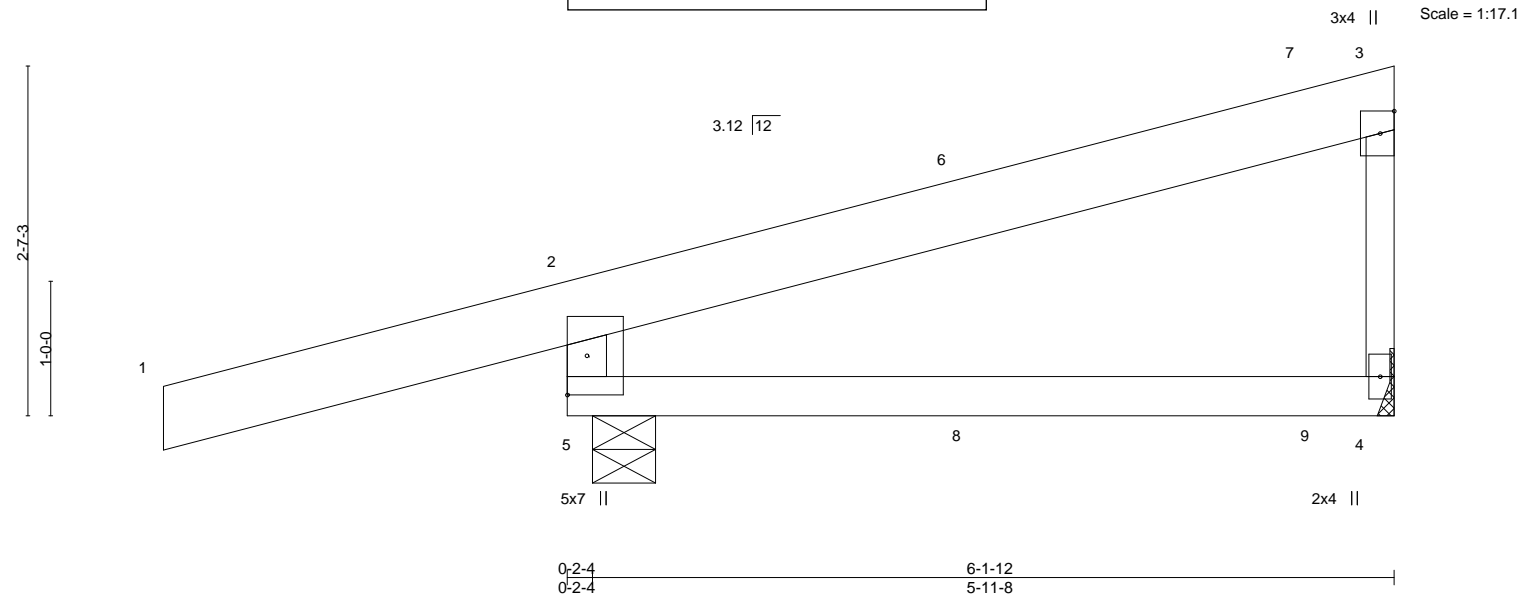
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> <b>08/21/2020</b>		Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-Jil3x7eQnQM_if0YTH_MWKNaKUqcCS91Do3tHMyIj4i
400477	J18	Diagonal Hip Girder	Ply	1	142521696
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:33 2020 Page 1 6-1-12 6-1-12			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.05 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.09 4-5	>764	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	-0.02 4-5	>999	240	Weight: 26 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SPF 1650F 1.4E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except*	
3-4: 2x3 SPF No.2	

**REACTIONS.** (size) 5=0-5-10, 4=Mechanical  
 Max Horz 5=108(LC 5)  
 Max Uplift 5=-212(LC 4), 4=-54(LC 8)  
 Max Grav 5=926(LC 41), 4=229(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=212.
  - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 7) Load case(s) 40, 41 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 36 lb up at 3-0-9, and 68 lb down and 65 lb up at 3-0-14, and 67 lb down and 54 lb up at 5-7-10 on top chord, and 9 lb down and 7 lb up at 3-0-9, and 10 lb down and 16 lb up at 3-0-14, and 24 lb down at 5-7-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard Except:

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



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Continued on page 2

Job	Truss	Truss Type	<div> <div>RELEASE FOR</div> <div>CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/21/2020</div> </div>			Ply	Lot 74 RR - Raising Hope House 2021	I42521696
400477	J18	Diagonal Hip	Girder			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			<div> <div>8.410 s</div> <div>May 22 2020</div> <div>MiTek Industries, Inc.</div> <div>Fri Aug 21 06:00:33 2020</div> <div>Page 2</div> <div>ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-Jil3x7eQnQM_if0YTH_MWKNaKUqcCS91Do3tHMyIj4i</div> </div>					

LOAD CASE(S)

- 40) Reversal: User defined: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F)
- Concentrated Loads (lb)
- Vert: 1=-250 6=1(B) 7=-20(B) 8=22(F=7, B=16) 9=-8(B)
- 41) User defined: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F)
- Concentrated Loads (lb)
- Vert: 1=-250 7=-20(B) 8=7(F) 9=-8(B)

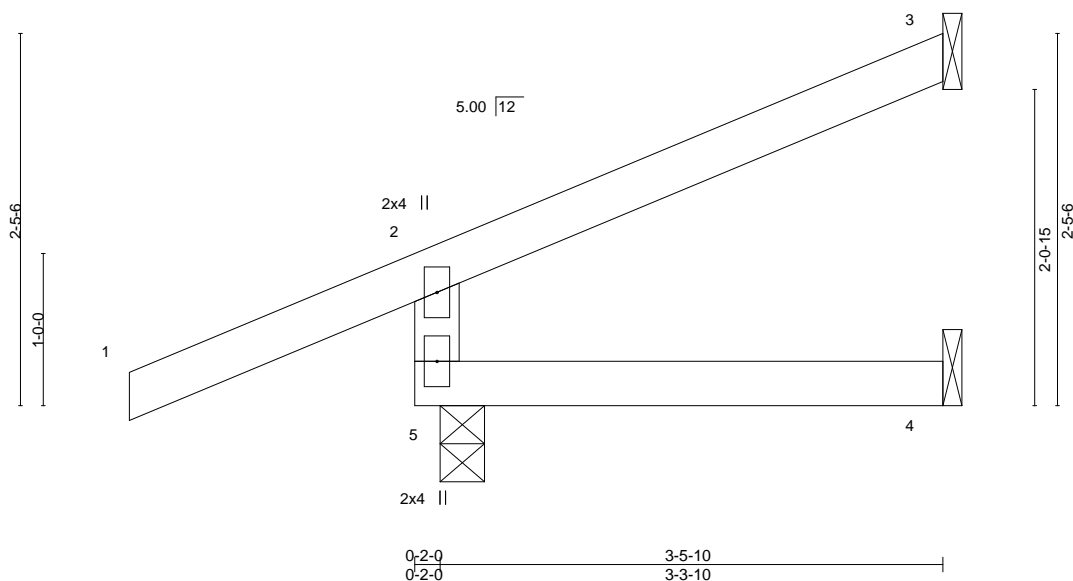
 **WARNING** - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Job 400477	Truss J19	Truss Type Jack-Open	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> 08/21/2020		Ply 1 Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-Jil3x7eQnQM_if0YTH_MWKNiPUtyCS91Do3tHMyIj4i
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:33 2020 Page 1 Scale = 1:15.1			



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

#### LUMBER-

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

#### BRACING-

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

**REACTIONS.** (size) 5=0-3-8, 3=Mechanical, 4=Mechanical  
 Max Horz 5=74(LC 8)  
 Max Uplift 5=71(LC 4), 3=49(LC 8)  
 Max Grav 5=332(LC 1), 3=79(LC 1), 4=58(LC 3)

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

#### NOTES-

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



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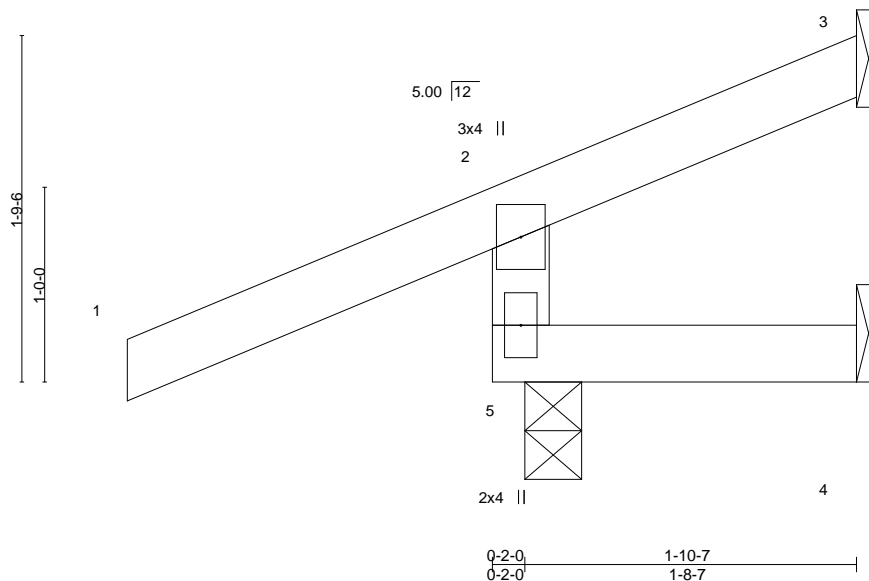


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Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-nvJS8Te2YkUrKoak1?Wc3Xvt9uDGxvPBSSpQpoylj4h		Lot 74 RR - Raising Hope House 2021	I42521698
400477	J20	Jack-Open			Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:34 2020 Page 1 1-10-8 08/21/2020 1-10-7 1-10-7			

Scale = 1:11.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	0.00	4-5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	-0.00	5	>999	240	
								Weight: 7 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

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

**REACTIONS.** (size) 3=Mechanical, 4=Mechanical, 5=0-3-8  
Max Horz 5=53(LC 5)  
Max Uplift 3=16(LC 8), 4=6(LC 1), 5=86(LC 4)  
Max Grav 3=5(LC 19), 4=25(LC 3), 5=302(LC 1)

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

#### NOTES-

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



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Job 400477	Truss J21	Truss Type Jack-Open	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b>		Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID:Ej7EWovY_94Pz17UVy1gWaz_t70-F5tqMpfGJ2ciyy9xbi1rclS2aIV4gMfKh6YzMFylj4g
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:35 2020 Page 1 08/21/2020			

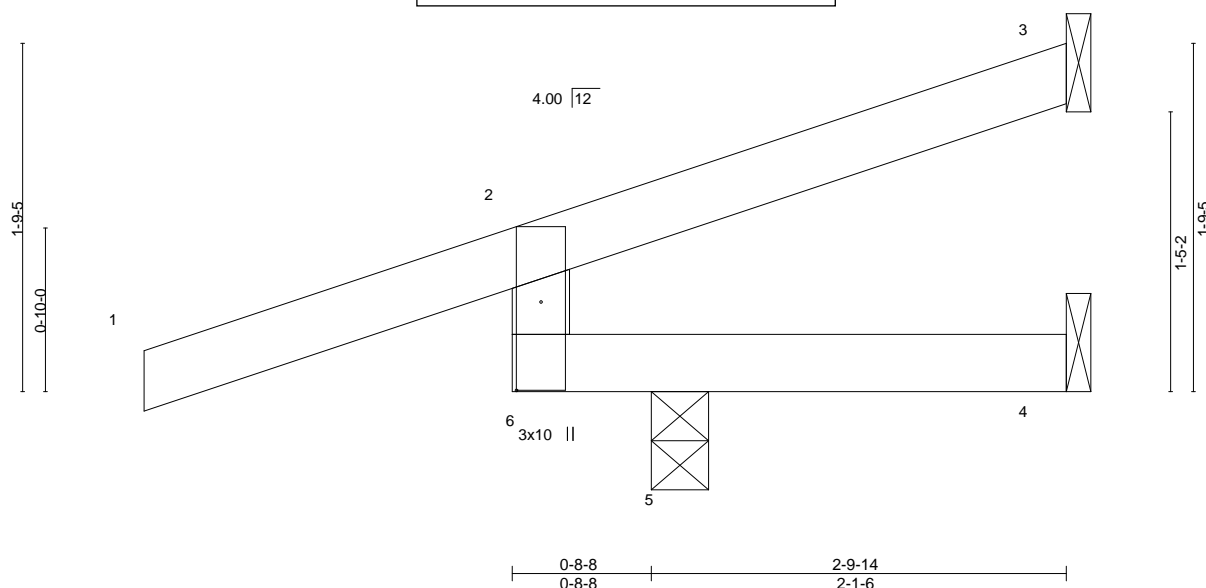


Plate Offsets (X,Y)--		[6:0-5-6,0-1-8]								
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc)	<b>L/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0		Plate Grip DOL 1.15		TC 0.30		Vert(LL) 0.01 4-5	>999	360	MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.36		Vert(CT) 0.01 4-5	>999	240		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.00		Horz(CT) -0.03 3	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-R		Wind(LL) -0.01 4-5	>999	240	Weight: 9 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

**REACTIONS.** (size) 3=Mechanical, 4=Mechanical, 5=0-3-8  
 Max Horz 5=62(LC 4)  
 Max Uplift 3=-25(LC 8), 4=-78(LC 1), 5=-187(LC 4)  
 Max Grav 3=25(LC 1), 4=55(LC 4), 5=430(LC 1)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=187.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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



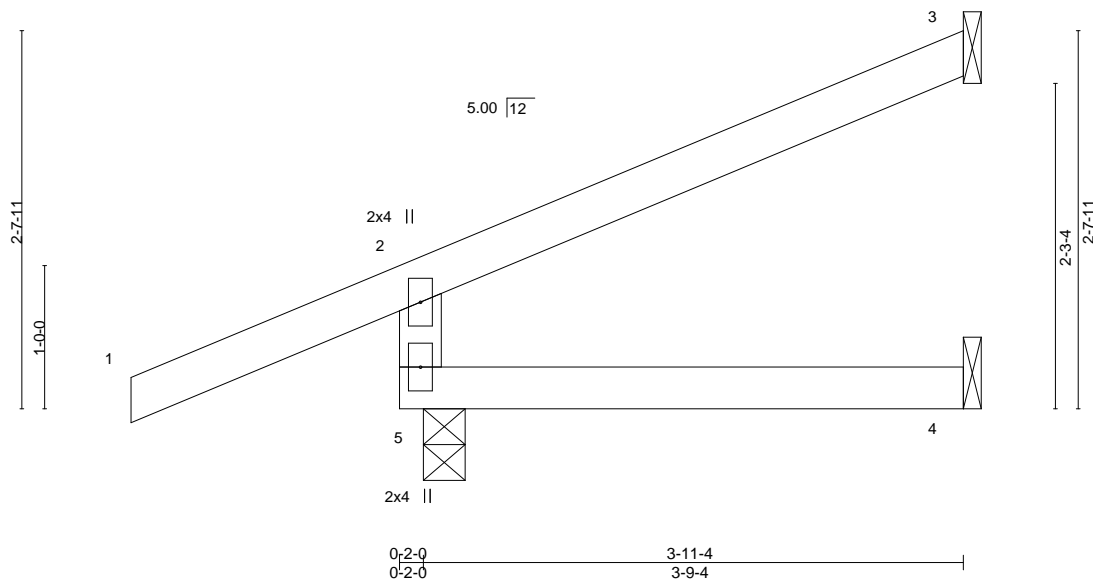
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Job 400477	Truss J23	Truss Type Jack-Open	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID: Ej7EWovY_94Pzt7UVy1gWAZ_t70-kHRCZ9gl4LkZa6k78QY48y?DehuAPpvTvmIXuhylj4f
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:36 2020 Page 1 08/21/2020			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.01 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.02 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01 4-5	>999	240	Weight: 12 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

#### NOTES-

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



August 21, 2020

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b>  <b>08/21/2020</b> </div>		Ply	Lot 74 RR - Raising Hope House 2021
400477	J24	Diagonal Hip	Girder		1	I42521702
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) ID: E7EWovY_94Pzt7UVy1gWAZ_t70-CU?amUhxrfSQBGGJi73JhAXJu5Ca8G9d8Q14Q7ylj4e 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:37 2020 Page 1 5-6-6 5-6-6				

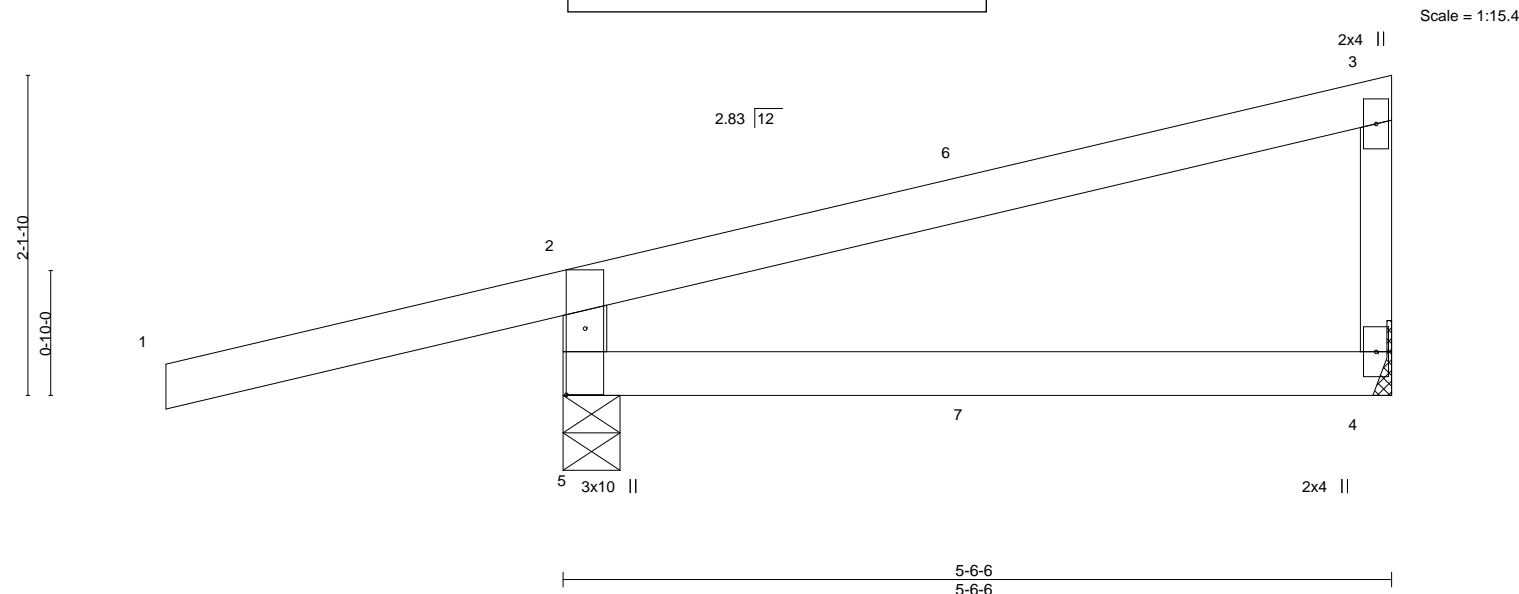


Plate Offsets (X,Y)--		[5:0-5-5,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 2-0-0	TC 0.63	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(LL) -0.03 4-5 >999 360
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Vert(CT) -0.06 4-5 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.00 4 n/a n/a
			Wind(LL) -0.02 4-5 >999 240
			Weight: 18 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except*	
3-4: 2x3 SPF No.2	

**REACTIONS.** (size) 5=0-4-9, 4=Mechanical  
 Max Horz 5=88(LC 5)  
 Max Uplift 5=186(LC 4), 4=31(LC 8)  
 Max Grav 5=485(LC 1), 4=186(LC 1)

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

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

**LOAD CASE(S)** Standard

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



August 21, 2020

Job 400477	Truss J25	Truss Type Jack-Open	<div> <div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/21/2020</div> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-CU?amUhxrf5QBGJi73JhAXOR5Et8G9d8Q14Q7ylj4e
Wheeler Lumber,	Waverly, KS 66871				8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:37 2020 Page 1 1-10-8 1-10-8 1-10-15 1-10-15

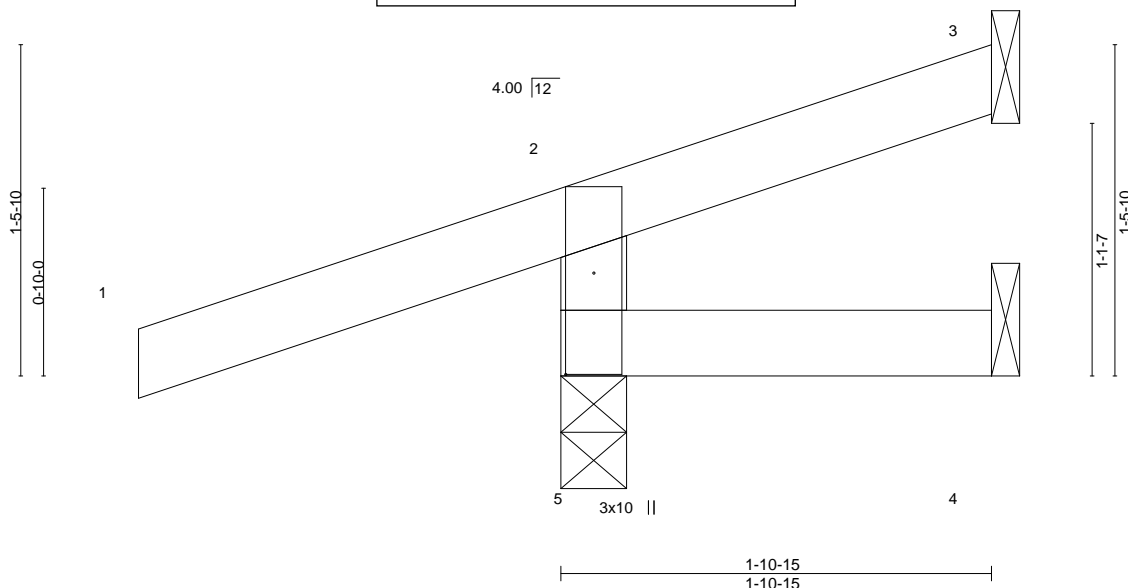


Plate Offsets (X,Y)--	[5:0-5-6,0-1-8]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	0.00 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	-0.00 5	>999	240	Weight: 7 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical  
 Max Horz 5=51(LC 4)  
 Max Uplift 5=134(LC 4), 3=13(LC 8), 4=7(LC 1)  
 Max Grav 5=302(LC 1), 3=5(LC 18), 4=26(LC 3)

#### FORCES.

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

TOP CHORD 2-5=260/138

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=134.
- 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.



August 21, 2020

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Structural diagram of a roof truss system. The diagram shows a side elevation of a truss with the following components and dimensions:

- Member 1:** The left vertical support member, labeled "1".
- Member 2:** The left vertical support member, labeled "2".
- Member 3:** The top chord member, labeled "3".
- Member 4:** The bottom chord member, labeled "4".
- Member 5:** The vertical support member at the right end, labeled "5".

Dimensions and material specifications:

- Vertical dimensions on the left: "2-2-0" (total height) and "0-10-0" (height from base to the top of member 2).
- Horizontal dimensions at the bottom: "4-0-0" (total length) and "4-0-0" (length from the left support to the right support).
- Material specifications: "3x10" for member 5, "2x4" for members 3 and 4, and "4x12" for member 2.

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	3-4: 2x3 SPF No.2		

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

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=132.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job 400477	Truss J27	Truss Type Jack-Closed	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID: Ej7EWovY_94Pzt7UVY1gWAZ_t70-8s6LBAiBNG68RaTiqY5nmbdkvxqcAfwbkWBV0ylj4c
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:39 2020 Page 1 08/21/2020			

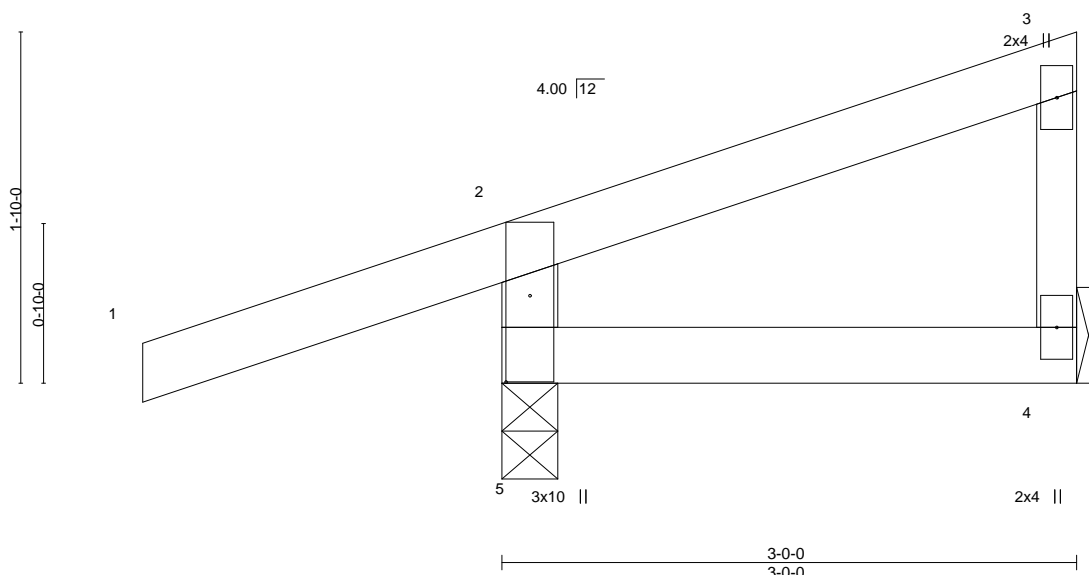


Plate Offsets (X,Y)--		[5:0-5-6,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(LL) -0.00 4-5 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.00 4-5 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) -0.00 4 n/a n/a
			Wind(LL) -0.00 5 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 11 lb FT = 10%

**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 3-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 5=0-3-8, 4=Mechanical  
 Max Horz 5=78(LC 5)  
 Max Uplift 5=133(LC 4), 4=17(LC 5)  
 Max Grav 5=317(LC 1), 4=72(LC 1)

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

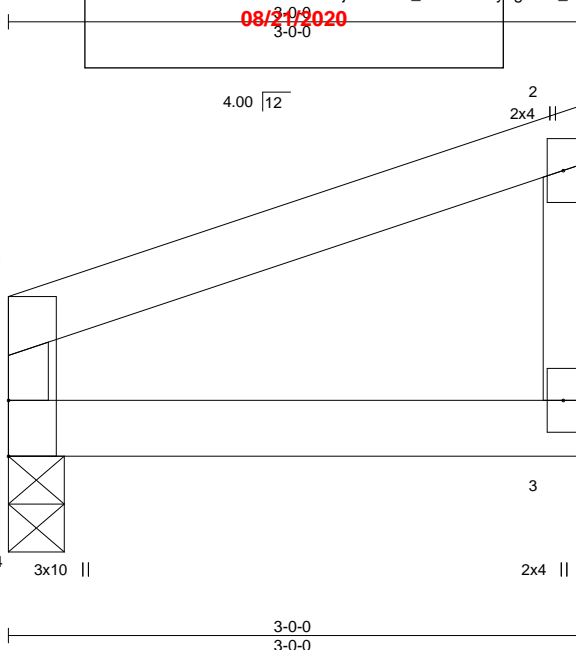
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=133.
  - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job	Truss	Truss Type	Release for Construction AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply	Lot 74 RR - Raising Hope House 2021
400477	J28	Jack-Closed	08/21/2020	1	I42521706

Wheeler Lumber, Waverly, KS 66871



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	3-4	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	3-4	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4	>999	240	
								Weight: 8 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

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

**REACTIONS.** (size) 4=0-3-8, 3=Mechanical  
Max Horz 4=63(LC 5)  
Max Uplift 4=-19(LC 4), 3=-29(LC 8)  
Max Grav 4=126(LC 1), 3=126(LC 1)

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

#### NOTES-

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



August 21, 2020

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Chesterfield, MO 63017

Job	Truss	Truss Type	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>		Ply	Lot 74 RR - Raising Hope House 2021	I42521707
400477	J29	Jack-Closed Girder			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871				8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:40 2020 Page 1		ID:Ej7EWovY_94PztUVy1gWAZ_t70-c2gjPWjp7aE?2j2uNFc0Jo9t2JG1LdT3qNGk1Sylj4b	
-1-10-8 1-10-8		2-0-0 2-0-0		4-0-0 2-0-0		5-0-0 1-0-0	
		08/21/2020					

Scale = 1:13.4

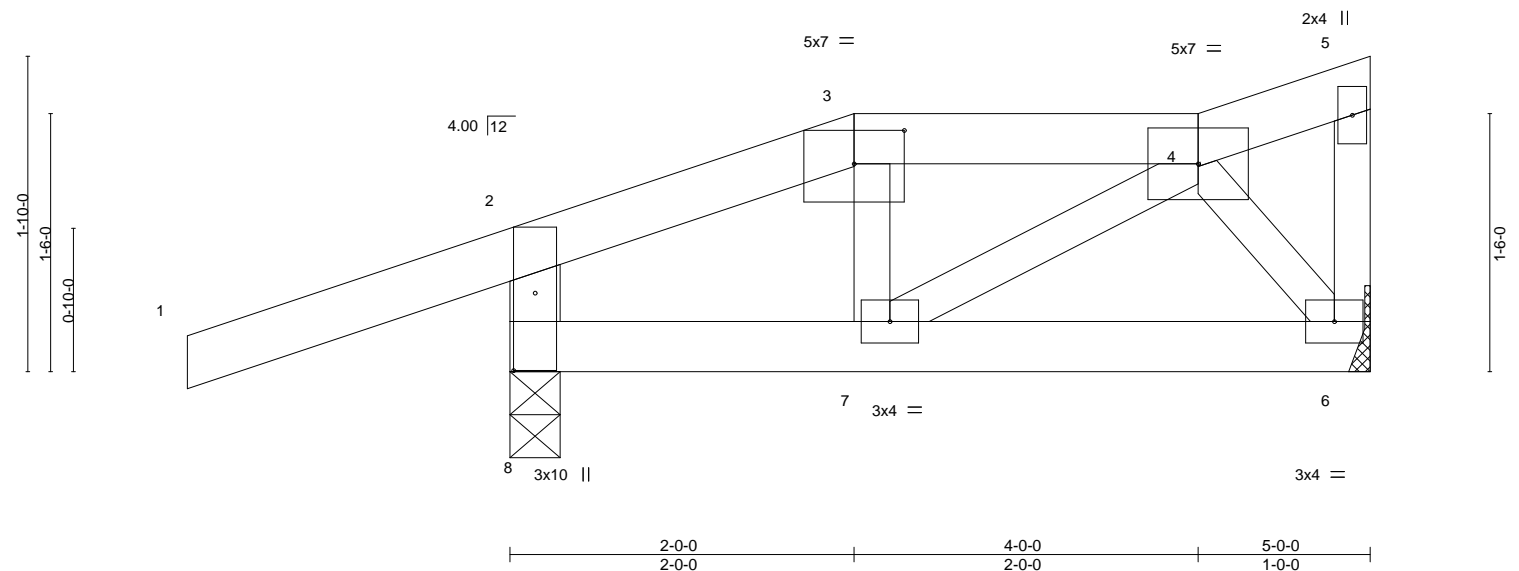


Plate Offsets (X,Y)--	[3:0-3-8,0-2-5], [8:0-5-6,0-1-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 10.0	Lumber DOL	1.15
BCLL 0.0 *	Rep Stress Incr	NO
BCDL 10.0	Code IRC2018/TPI2014	
<b>CSI.</b>	<b>DEFL.</b>	in (loc) l/defl L/d
TC 0.32	Vert(LL) -0.01	7 >999 360
BC 0.12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

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-313/160

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=166.
  - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 126 lb up at 2-0-0 on top chord, and 29 lb down and 60 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20  
Concentrated Loads (lb)  
Vert: 3=35(B)



August 21, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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Job 400477	Truss J30	Truss Type Jack-Closed	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> <b>08/21/2020</b>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-4FE5cskRuuMsgtd5xz8Fr0i3Ribs44vD31?IzuyIj4a
Wheeler Lumber, Waverly, KS 66871					8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:41 2020 Page 1 Scale = 1:15.3

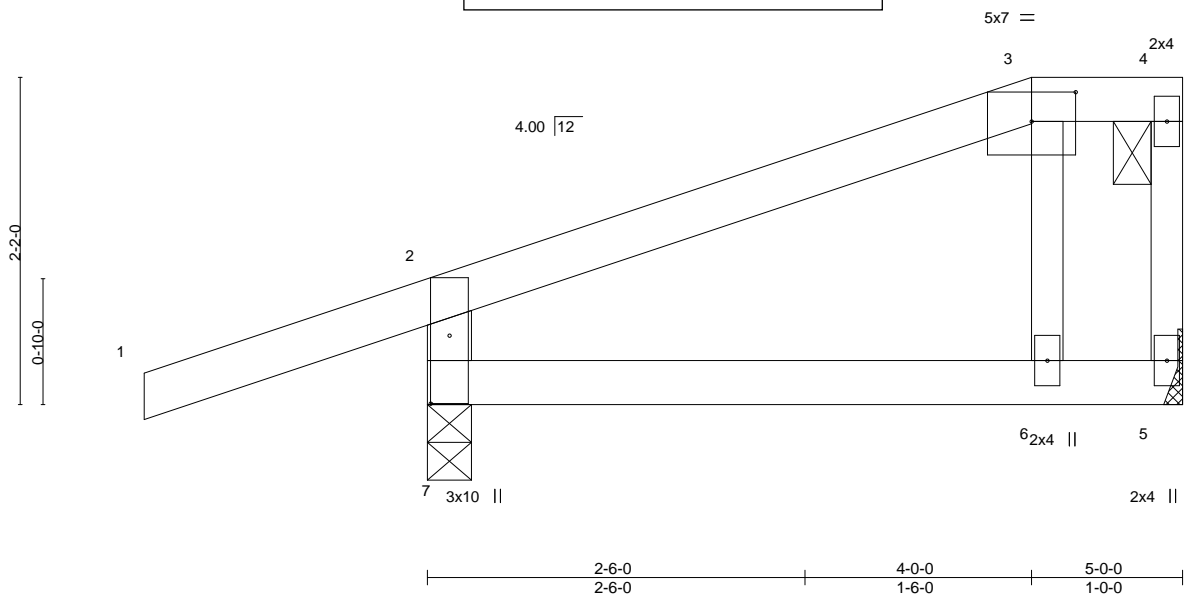


Plate Offsets (X,Y)-- [3:0-3-8,0-2-5], [7:0-5-6,0-1-8]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b> <b>GRIP</b>	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01 6-7 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.03 6-7 >999	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00 5 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.01 6-7 >999	240	Weight: 17 lb FT = 10%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 7=0-3-8, 5=Mechanical  
Max Horz 7=95(LC 5)  
Max Uplift 7=137(LC 4), 5=32(LC 5)  
Max Grav 7=385(LC 1), 5=184(LC 1)

#### FORCES.

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=137.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	3-4: 2x3 SPF No.2		

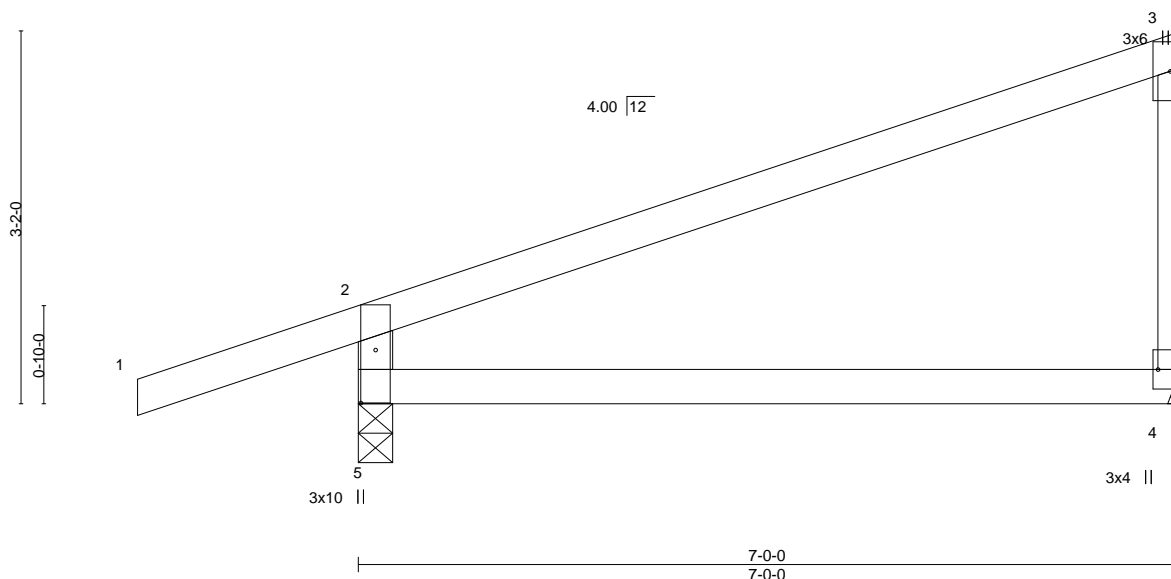
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-5=-340/166

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Job 400477	Truss J32	Truss Type Jack-Closed	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> 08/21/2020		Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID:Ej7EWovY_94Pzt7UvY1gWAZ_t70-YRoTqCl3fBUi1CHVgfUODF9U6tPpXOMIhr5Lylj4Z
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:42 2020 Page 1 7-0-0 7-0-0			



Scale = 1:19.6

Plate Offsets (X,Y)--		[4:Edge,0-2-8], [5:0-5-6,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.58	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.38	Vert(LL) -0.08 4-5 >985 360
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.17 4-5 >472 240
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 4 n/a n/a
	Code IRC2018/TPI2014		Wind(LL) 0.03 4-5 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 21 lb FT = 10%

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

#### REACTIONS.

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

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

TOP CHORD 2-5=412/192

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=144.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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Job	Truss	Truss Type	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b>  <b>08/21/2020</b> </div>		Ply	Lot 74 RR - Raising Hope House 2021	I42521711
400477	J33	Diagonal Hip	Girder		1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871				8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:43 2020 Page 1		ID:Ej7EWovY_94Pzt7UVy1gWaz_170-0dMr1YliQVcZvBmt3OAjwRnKoWFHYzeVWLUOenyIj4Y	
		-2-7-13 2-7-13		2-8-7 2-8-7			

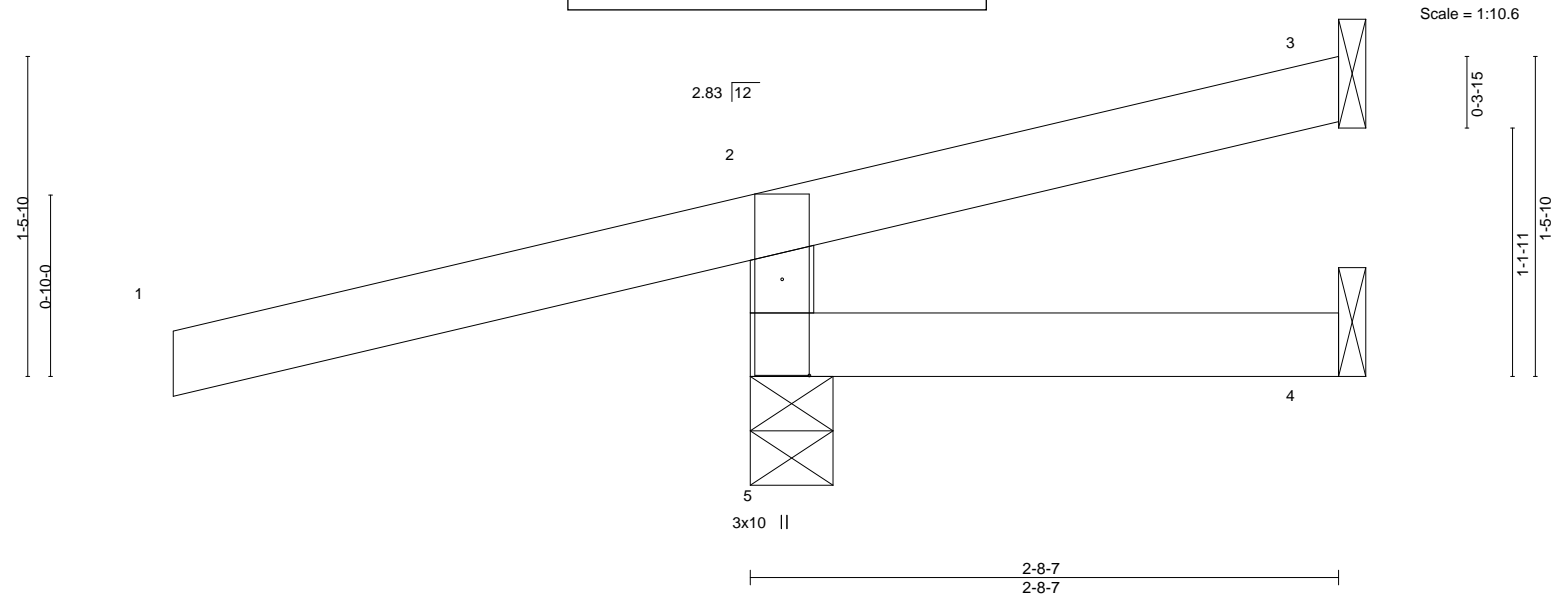


Plate Offsets (X,Y)--		[5:0-5-5,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.61
TCDL 10.0	Lumber DOL	1.15	BC 0.21
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			DEFL. in (loc) l/defl L/d
			Vert(LL) 0.01 4-5 >999 360
			Vert(CT) 0.01 4-5 >999 240
			Horz(CT) -0.01 3 n/a n/a
			Wind(LL) -0.01 4-5 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 10 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

**REACTIONS.** (size) 5=0-4-9, 3=Mechanical, 4=Mechanical  
 Max Horz 5=52(LC 7)  
 Max Uplift 5=158(LC 4), 3=42(LC 17), 4=26(LC 1)  
 Max Grav 5=276(LC 1), 3=23(LC 4), 4=28(LC 4)

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

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

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Concentrated Loads (lb)  
 Vert: 1=-71(F=-36, B=36)  
 Trapezoidal Loads (plf)  
 Vert: 1=-0(F=35, B=35)-to-2=-49(F=11, B=11), 2=-5(F=33, B=33)-to-3=-49(F=10, B=10), 5=0(F=10, B=10)-to-4=-14(F=3, B=3)



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Job	Truss	Truss Type	Girder		Ply	Lot 74 RR - Raising Hope House 2021	I42521712
400477	J34	Diagonal Hip			1	Job Reference (optional)	
Wheeler Lumber,		Waverly, KS 66871				8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:44 2020 Page 1	
						ID:Ej7EWovY_94Pzt7UVy1gWAz_t70-VqwDEumKBpkQXLLfc5hyTeKSRwaHHQufl?EyADylj4X	
						08/21/2020	
						7-7-0	
						7-7-0	

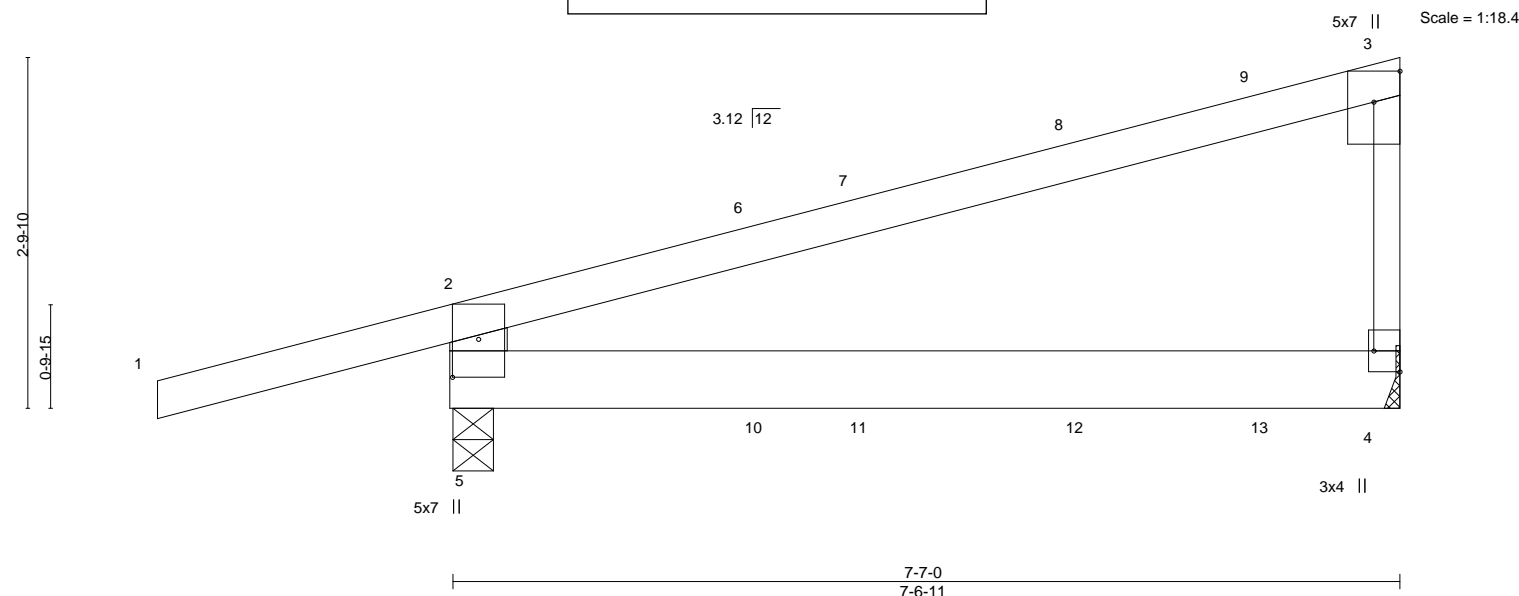


Plate Offsets (X,Y)--		[3:Edge,0-2-8], [4:Edge,0-2-8], [5:0-3-10,0-2-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.81
TCDL 10.0	Lumber DOL	1.15	BC 0.29
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			<b>DEFL.</b>
			in (loc) l/defl L/d
			Vert(LL) -0.04 4-5 >999 360
			Vert(CT) -0.08 4-5 >999 240
			Horz(CT) -0.00 4 n/a n/a
			Wind(LL) 0.02 4-5 >999 240
			<b>PLATES</b>
			MT20
			<b>GRIP</b>
			197/144
			Weight: 27 lb FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SPF No.2 *Except*	
3-4: 2x3 SPF No.2	

**REACTIONS.** (size) 5=0-3-14, 4=Mechanical  
 Max Horz 5=115(LC 22)  
 Max Uplift 5=191(LC 4), 4=91(LC 8)  
 Max Grav 5=553(LC 1), 4=380(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=191.
  - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 38 lb up at 2-6-8, 77 lb down and 29 lb up at 3-4-9, and 89 lb down and 71 lb up at 5-1-4, and 101 lb down and 78 lb up at 6-6-15 on top chord, and 4 lb down at 2-6-8, 10 lb down and 8 lb up at 3-4-9, and 20 lb down at 5-1-4, and 39 lb down at 6-6-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 8=-23(F) 9=-52(B) 11=8(B) 12=-10(F) 13=-24(B)



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Job 400477	Truss J35	Truss Type Jack-Open	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> <b>08/21/2020</b>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521713 Job Reference (optional) ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-VqwDEumKBpkQXLLfc5hyTeKXawa0HQuf1?EyADylj4X
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:44 2020 Page 1 6-0-0 6-0-0			

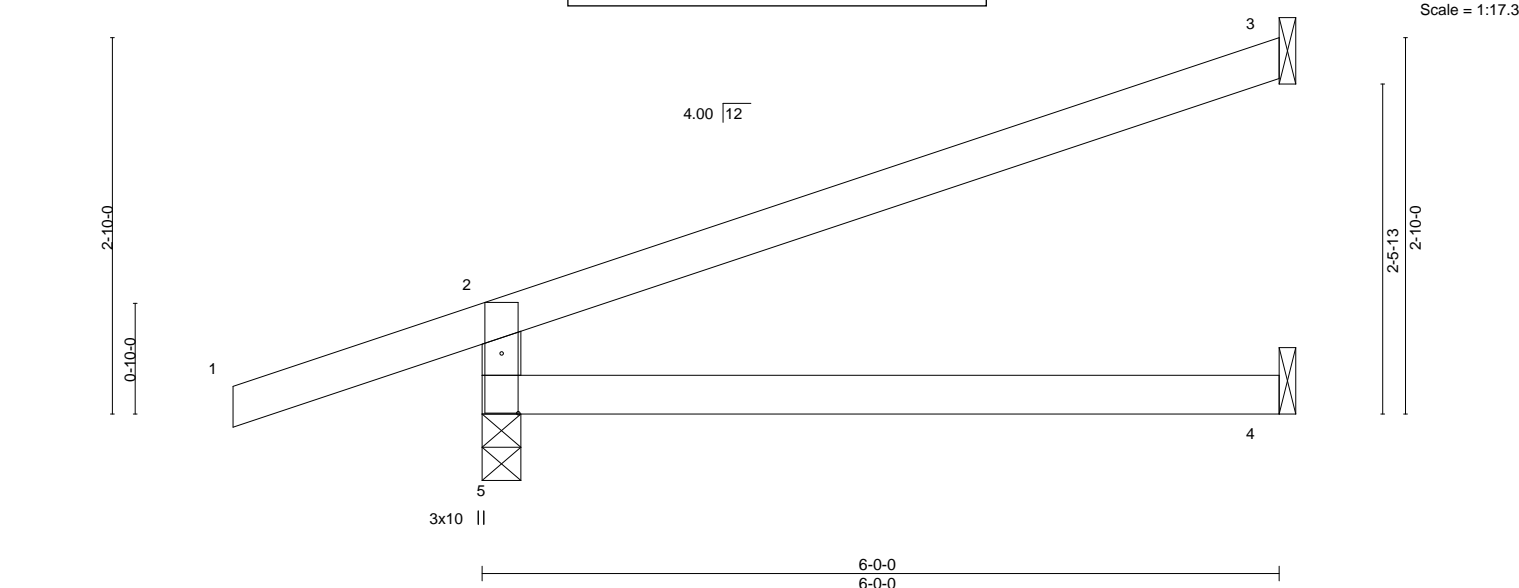


Plate Offsets (X,Y)--		[5:0-5-6,0-1-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.48	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(LL) -0.05 4-5 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.11 4-5 >632 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R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

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

**REACTIONS.** (size) 5=0-3-8, 3=Mechanical, 4=Mechanical  
 Max Horz 5=106(LC 4)  
 Max Uplift 5=127(LC 4), 3=82(LC 8)  
 Max Grav 5=427(LC 1), 3=173(LC 1), 4=107(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=127.
  - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=126.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 21, 2020

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16023 Swingley Ridge Rd  
Chesterfield, MO 63017



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	<b>L/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.01 2-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.02 2-4	>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-P	Wind(LL) 0.00 2	****	240	Weight: 10 lb	FT = 10%

<b>LUMBER-</b> TOP CHORD    2x4 SPF No.2 BOT CHORD    2x4 SPF No.2 WEDGE Left: 2x3 SPF No.2	<b>BRACING-</b> TOP CHORD    Structural wood sheathing directly applied or 3-8-10 oc purlins. BOT CHORD    Rigid ceiling directly applied or 10-0-0 oc bracing.
---	---

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
Max Horz 2=77(LC 8)  
Max Uplift 3=66(LC 8), 2=37(LC 8)  
Max Grav 3=113(LC 1), 2=240(LC 1), 4=70(LC 3)

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

**NOTES-**

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



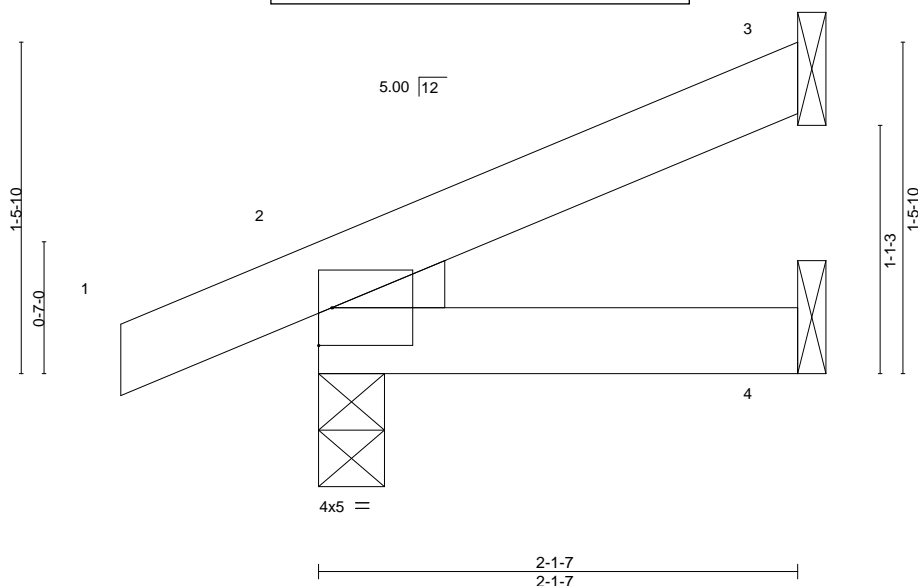
August 21, 2020

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCS Building Component Safety Information** available from Truss Plate Institute, 2672 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	<b>CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b>		Ply	Lot 74 RR - Raising Hope House 2021	I42521717
400477	J39	Jack-Open			1		
Wheeler Lumber,		Waverly, KS 66871	Job Reference (optional)				
			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:46 2020 Page 1 ID:Ej7EWovY_94PztUVy1gWAZ_t70-RC1_fZoajQ_8meV2kWjQY3PzXjKlIKNyCjJ3E6ylj4V				
		-0-10-8 0-10-8	08/21/2020		2-1-7 2-1-7		



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00 2	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00 2-4	>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-P	Wind(LL)	0.00 2	****	240	Weight: 7 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
 Max Horz 2=49(LC 8)  
 Max Uplift 3=35(LC 8), 2=35(LC 4)  
 Max Grav 3=48(LC 1), 2=177(LC 1), 4=38(LC 3)

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

#### NOTES-

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



August 21, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

**RELEASE FOR CONSTRUCTION**  
**AS NOTED ON PLANS REVIEW**  
**DEVELOPMENT SERVICES**  
**LEE'S SUMMIT, MISSOURI**  
 ID: Ej7EWovY\_94Pzt7UVy1gWAZ\_t70-vPbMtvCuk7?Oo4EIDEf5HyZ27gMUnl5RzScnYylj4U  
 08/21/2020

Job 400477	Truss J40	Truss Type Jack-Closed Girder	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:47 2020 Page 1 ID: Ej7EWovY_94Pzt7UVy1gWAZ_t70-vPbMtvCuk7?Oo4EIDEf5HyZ27gMUnl5RzScnYylj4U
Wheeler Lumber, Waverly, KS 66871				

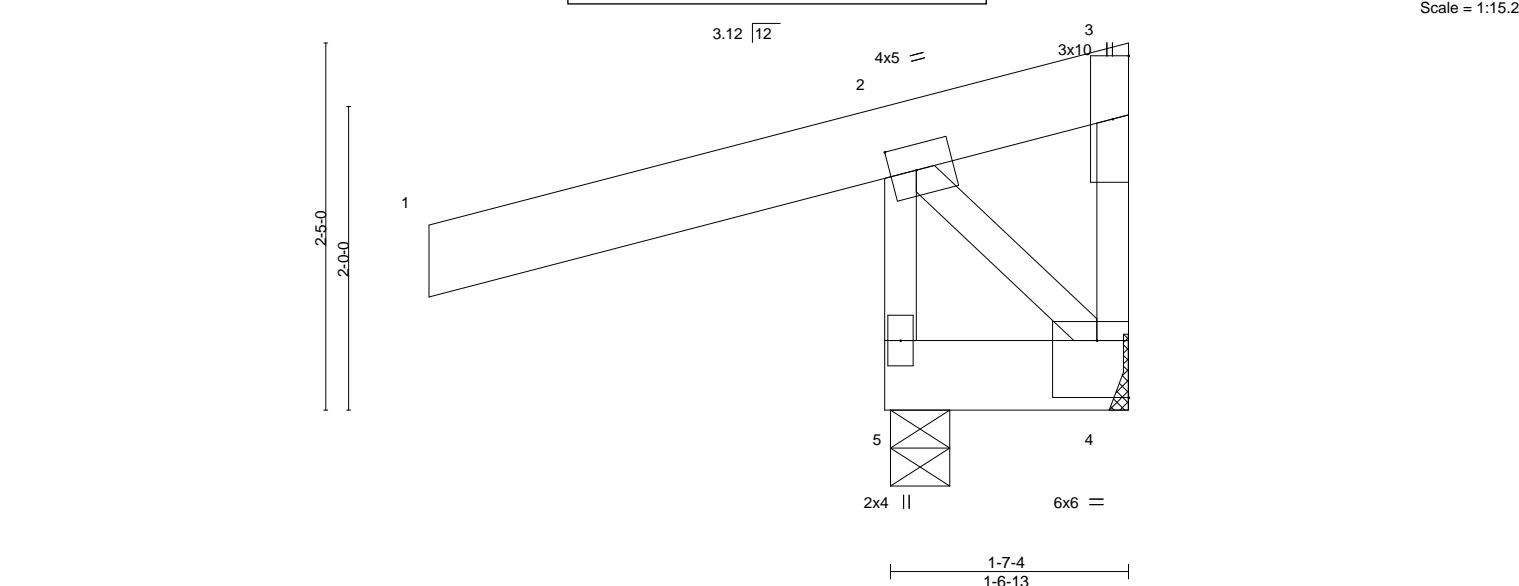


Plate Offsets (X,Y)--		[2:0-2-1,0-2-0], [4:Edge,0-4-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.78
TCDL 10.0	Lumber DOL	1.15	BC 0.01
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P
			<b>DEFL.</b>
			in (loc) l/defl L/d
			Vert(LL) -0.00 5 >999 360
			Vert(CT) -0.00 5 >999 240
			Horz(CT) -0.00 4 n/a n/a
			Wind(LL) 0.00 5 **** 240
			<b>PLATES</b>
			MT20
			<b>GRIP</b>
			197/144
			Weight: 15 lb FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SPF 1650F 1.4E	TOP CHORD Structural wood sheathing directly applied or 1-7-4 oc purlins, except end verticals.
BOT CHORD 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

**REACTIONS.** (size) 5=0-4-11, 4=Mechanical  
 Max Horz 5=92(LC 5)  
 Max Uplift 5=278(LC 4), 4=734(LC 21)  
 Max Grav 5=1327(LC 21), 4=123(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-5=-1313/286, 3-4=-142/748

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=278, 4=734.
  - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 7) Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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



August 21,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job

400477

Truss

J41

Truss Type

Jack-Open

Wheeler Lumber,

Waverly, KS 66871

Lot 74 RR - Raising Hope House 2021

I42521719

Job Reference (optional)

8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:48 2020 Page 1

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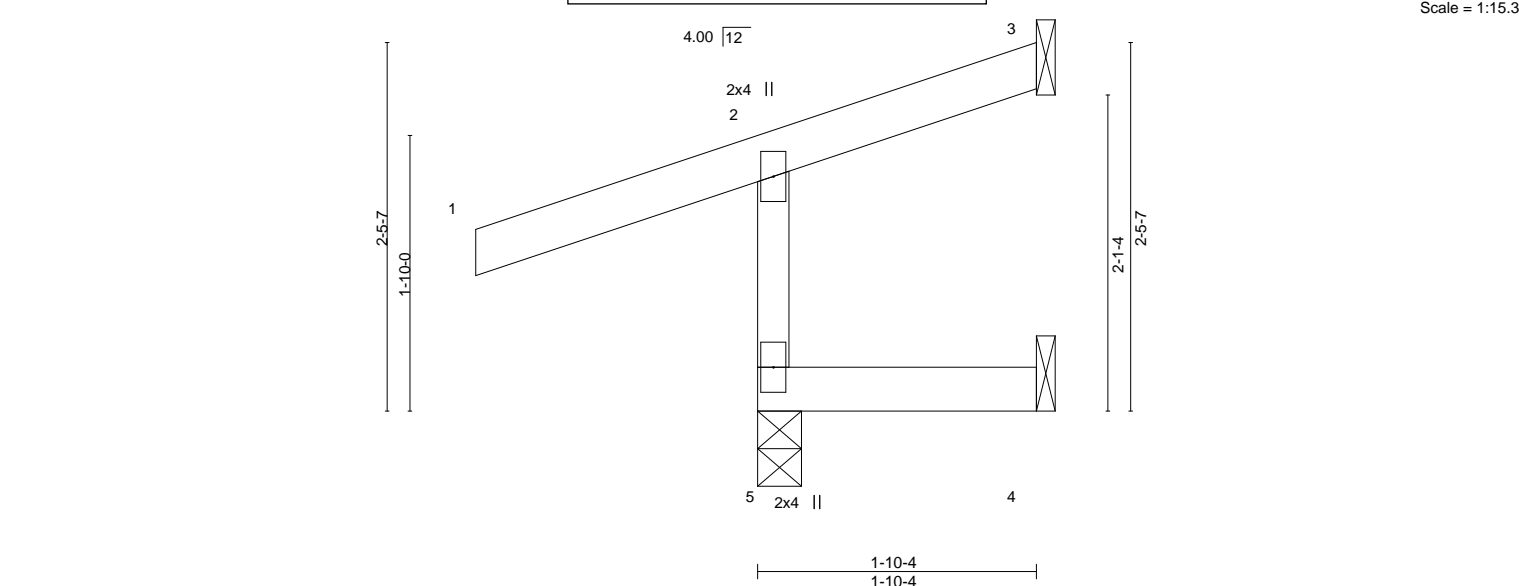
-1-10-8

1-10-8

08/21/2020

1-10-4

1-10-4



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

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-10-4 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

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

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

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



August 21, 2020

Job 400477	Truss J42	Truss Type JACK-CLOSED GIRDER	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID: Ej7EWovY_94PztUVy1gWAZ_t70-rnj6lbqSOLNjd6EdPeH7Ai1Jpxldyh7OvHxjrRylj4S
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:49 2020 Page 1 3-0-0 08/21/2020 1-7-9 1-7-9			

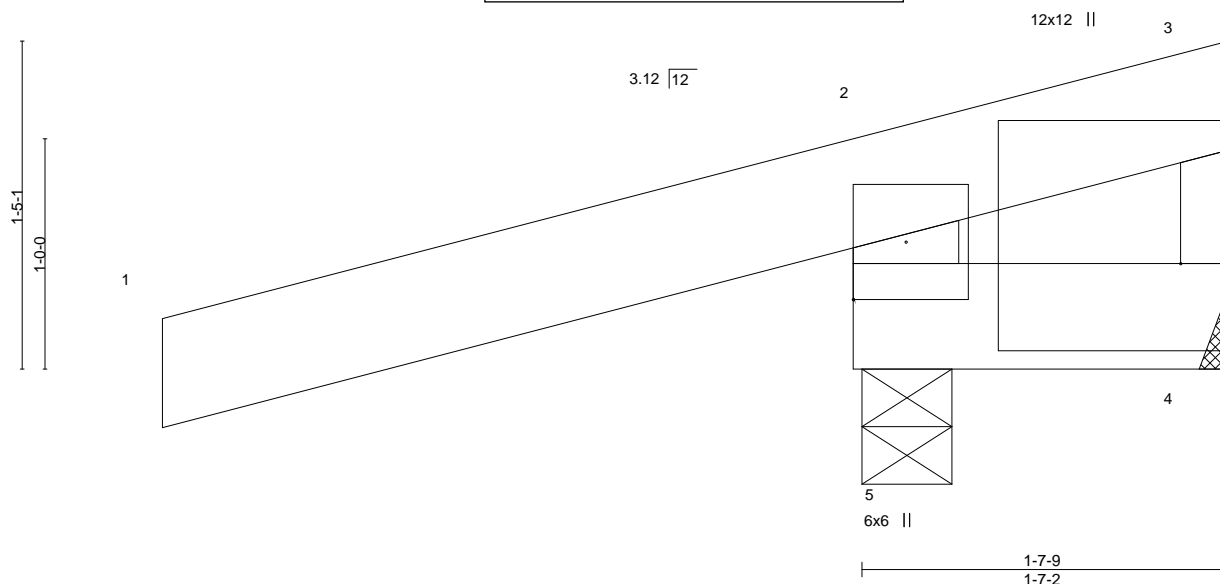


Plate Offsets (X,Y)--		[3:Edge,0-2-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.83
TCDL 10.0	Lumber DOL	1.15	BC 0.21
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			<b>DEFL.</b> in (loc) l/defl L/d
			Vert(LL) 0.00 5 >999 360
			Vert(CT) 0.00 4-5 >999 240
			Horz(CT) -0.00 4 n/a n/a
			Wind(LL) -0.00 5 >999 240
			<b>PLATES</b> MT20 <b>GRIP</b> 197/144
			Weight: 12 lb FT = 10%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 5=0-4-11, 4=Mechanical  
 Max Horz 5=66(LC 7)  
 Max Uplift 5=-314(LC 4), 4=-846(LC 21)  
 Max Grav 5=1438(LC 21), 4=155(LC 4)

#### FORCES.

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

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=314, 4=846.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S)

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



August 21, 2020

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job 400477	Truss J43	Truss Type Jack-Open	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b>		Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID:Ej7EWovY_94Pzt7UWVy1gWAZ_t70-rnj6lbqS0LNjd6EdPeH7Ai1RPxKhyh7OvHxjrRylj4S
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:49 2020 Page 1 08/21/2020		142521721

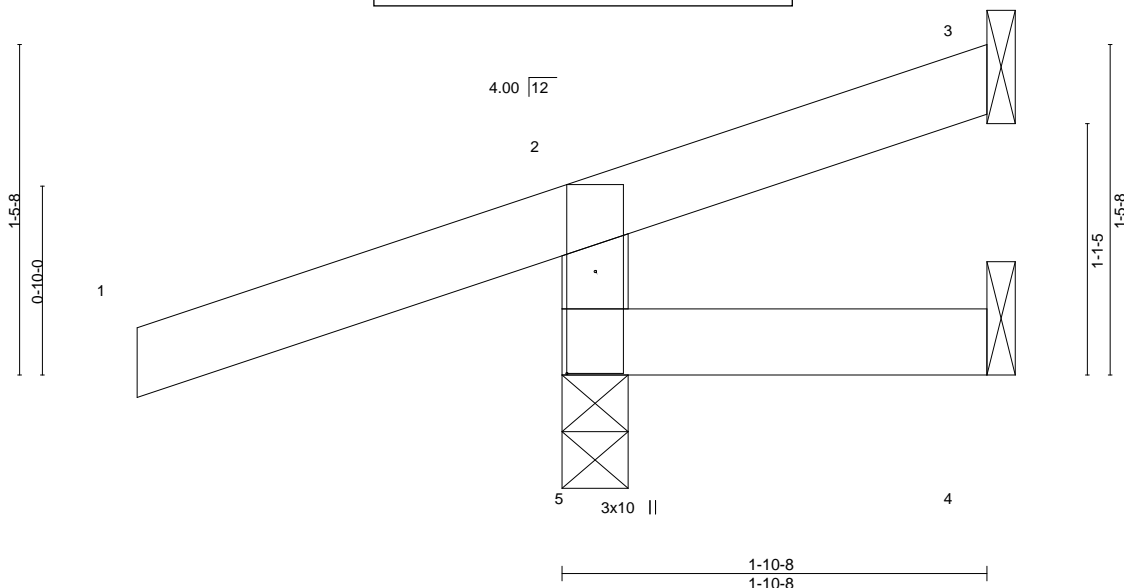


Plate Offsets (X,Y)--		[5:0-5-6,0-1-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.28	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(LL) 0.00 4-5 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) 0.00 4-5 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) -0.00 3 n/a n/a
			Wind(LL) -0.00 5 >999 240
			<b>PLATES</b> MT20
			<b>GRIP</b> 197/144
			Weight: 7 lb FT = 10%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical  
Max Horz 5=50(LC 4)  
Max Uplift 5=-135(LC 4), 3=-12(LC 8), 4=-8(LC 1)  
Max Grav 5=302(LC 1), 3=4(LC 19), 4=25(LC 3)

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

TOP CHORD 2-5=-260/138

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=135.
- 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.



August 21, 2020

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16023 Swingley Ridge Rd  
Chesterfield, MO 63017



Job	Truss	Truss Type	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>		Ply	Lot 74 RR - Raising Hope House 2021
400477	J44	Diagonal Hip	Girder		1	I42521722
Wheeler Lumber, Waverly, KS 66871				8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:50 2020 Page 1		
				ID:EjEWovY_94Pzt7UVy1gWAZ_t70-J_HVVxr5nfVaFGppzMoMivaUYLdyh8NX7xhGNtylj4R		
		-3-0-0 3-0-0		08/21/2020		
				3-4-1 3-4-1		

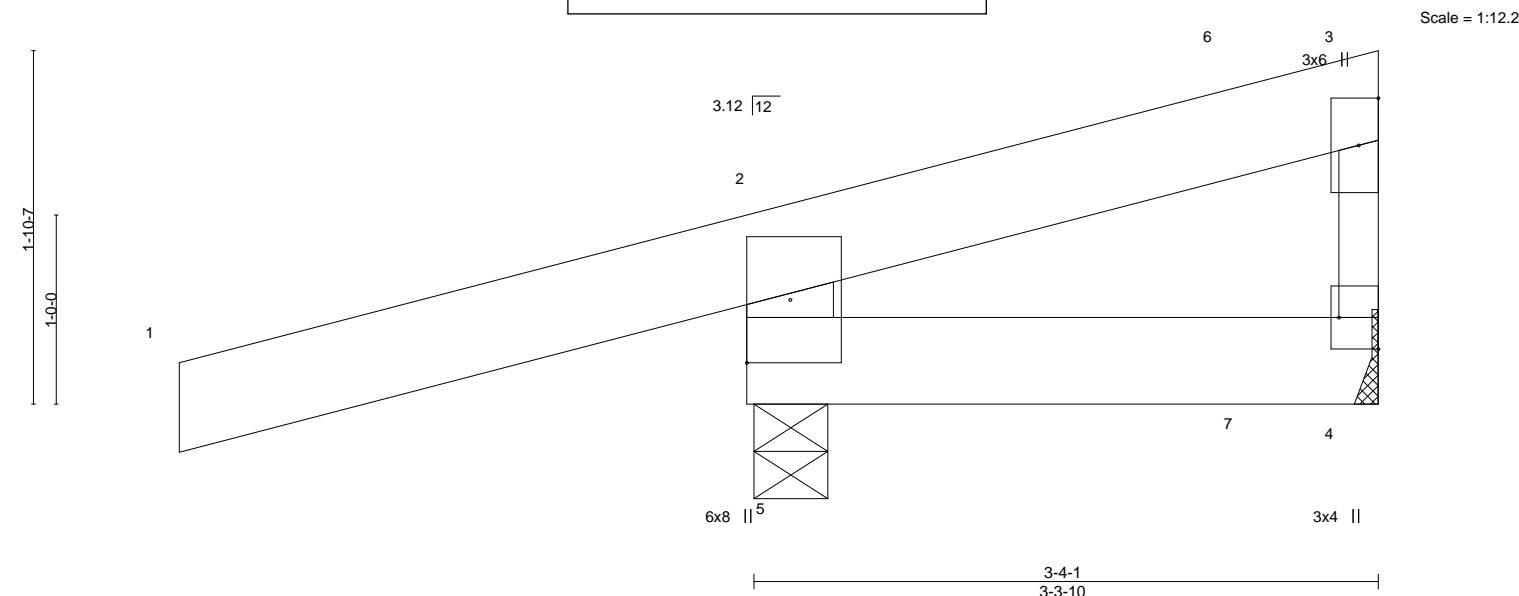


Plate Offsets (X,Y)--		[4:Edge,0-2-8]	
<b>LOADING</b> (psf)	<b>SPACING</b>	2-0-0	<b>CSI.</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.83
TCDL 10.0	Lumber DOL	1.15	BC 0.27
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
			<b>DEFL.</b>
			in (loc) l/defl L/d
			Vert(LL) 0.00 4-5 >999 360
			Vert(CT) 0.01 4-5 >999 240
			Horz(CT) -0.00 4 n/a n/a
			Wind(LL) -0.00 4-5 >999 240
			<b>PLATES</b>
			MT20
			<b>GRIP</b>
			197/144
			Weight: 19 lb FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SPF 1650F 1.4E	TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except end verticals.
BOT CHORD 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SPF No.2 *Except*	
3-4: 2x3 SPF No.2	

**REACTIONS.** (size) 5=0-4-11, 4=Mechanical  
 Max Horz 5=85(LC 7)  
 Max Uplift 5=231(LC 4), 4=261(LC 37)  
 Max Grav 5=1000(LC 37), 4=100(LC 21)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=231, 4=261.
  - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 7) Load case(s) 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 28 lb up at 2-8-7 on top chord, and 14 lb down and 8 lb up at 2-8-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard Except:  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-70, 2-3=-70, 4-5=-20  
 Concentrated Loads (lb)  
 Vert: 7=8(F)



August 21, 2020

Job	Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/21/2020</div>			Ply	Lot 74 RR - Raising Hope House 2021	I42521722
400477	J44	Diagonal Hip	Girder			1	Job Reference (optional)	
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:50 2020 Page 2 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t10-J_HVVxr5nfVaFGppzMoMivaUYLdyh8NX7xhGNtylj4R					

LOAD CASE(S)

- 37) User defined: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-70(F), 2-3=-70(F), 4-5=-20(F)  
Concentrated Loads (lb)  
Vert: 1=-250 7=8(F)

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job

400477

Truss

J45

Truss Type

Jack-Closed Girder

Release for Construction

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

08/21/2020

Ply

1

Lot 74 RR - Raising Hope House 2021

I42521723

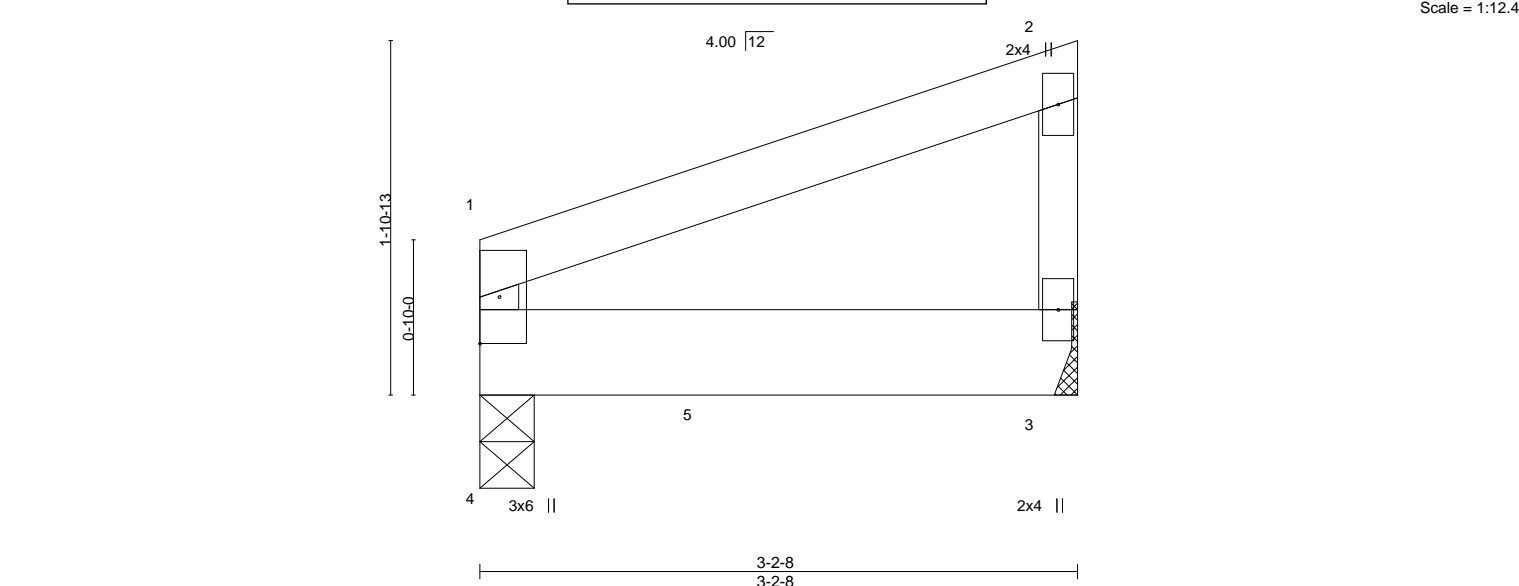
Wheeler Lumber,

Waverly, KS 66871

Job Reference (optional)

8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:50 2020 Page 1

ID: Ej7EWovY\_94Pzt7UVy1gWAZ\_t70-J\_HVVxr5nfVaFGppzMoMivaeJLdAh8NX7xhGNtylj4R



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

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals.
BOT CHORD 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

**REACTIONS.** (size) 4=0-3-8, 3=Mechanical  
Max Horz 4=63(LC 5)  
Max Uplift 4=-56(LC 4), 3=-54(LC 8)  
Max Grav 4=347(LC 1), 3=270(LC 1)

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

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

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)  
Vert: 1-2=-70, 3-4=-20  
Concentrated Loads (lb)  
Vert: 5=-347(F)



August 21, 2020

Job 400477	Truss J46	Truss Type Jack-Open	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b>		Lot 74 RR - Raising Hope House 2021 Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:51 2020 Page 1		I42521724
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			08/21/2020		

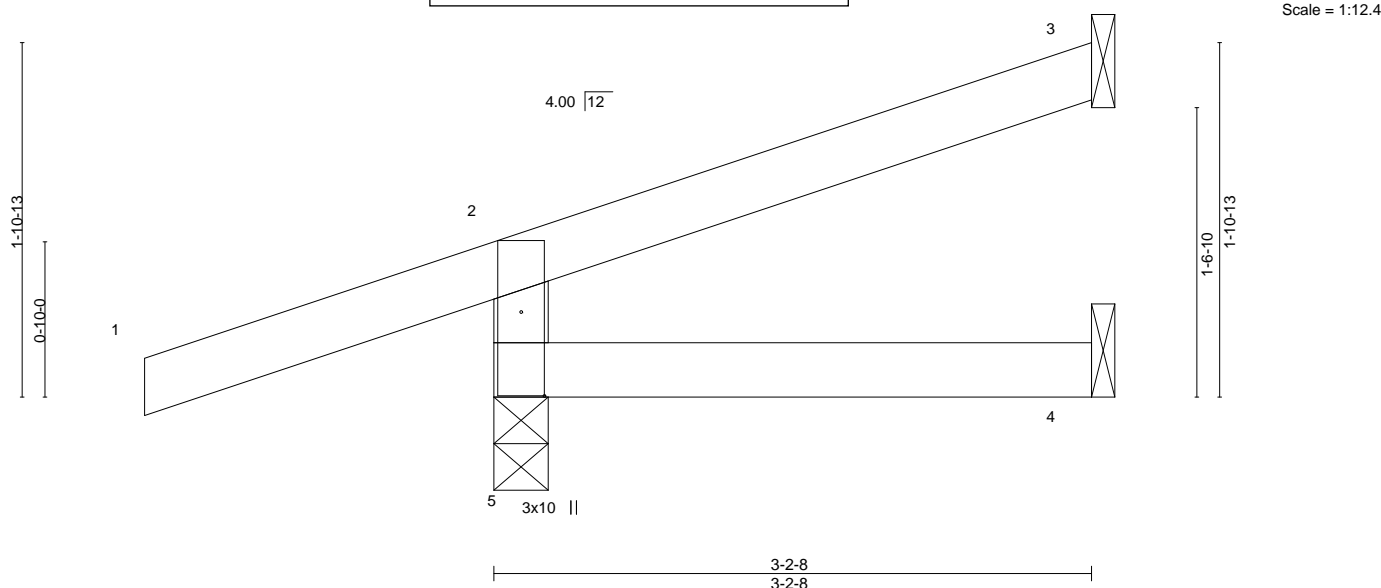


Plate Offsets (X,Y)-- [5:0-5-6,0-1-8]										
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.00 4-5 >999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01 4-5 >999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00 3 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.00 4-5 >999	240	Weight: 10 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

**REACTIONS.** (size) 5=0-3-8, 3=Mechanical, 4=Mechanical  
Max Horz 5=68(LC 4)  
Max Uplift 5=123(LC 4), 3=38(LC 8)  
Max Grav 5=324(LC 1), 3=69(LC 1), 4=52(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-5=283/142

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=123.
- 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.



August 21, 2020

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16023 Swingley Ridge Rd  
Chesterfield, MO 63017

**RELEASE FOR CONSTRUCTION**  
**AS NOTED ON PLANS REVIEW**  
**DEVELOPMENT SERVICES**  
**LEE'S SUMMIT, MISSOURI**  
 ID: Ej7EWovY\_94Pzt7UVy1gWAZ\_t70-GMPFwdsLJGIIUZzC4nqqoKfq28K892sqbFANSlylj4P  
 08/21/2020

Job 400477	Truss J47	Truss Type Jack-Closed Girder	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional)
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:52 2020 Page 1 1gWAZ_t70-GMPFwdsLJGIIUZzC4nqqoKfq28K892sqbFANSlylj4P		

3-0-0

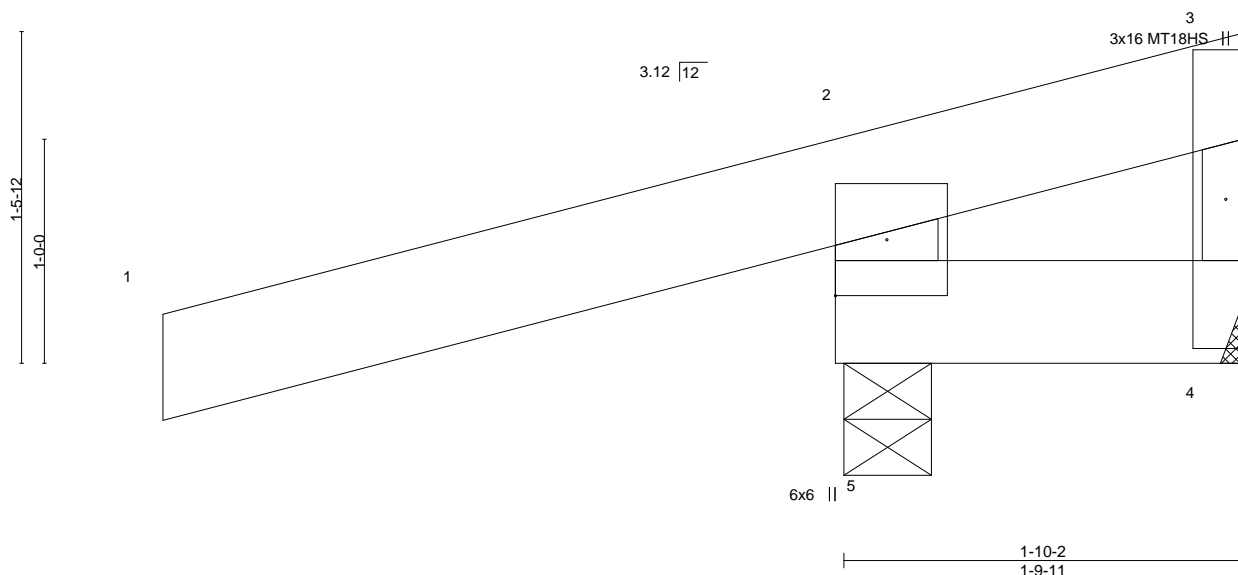
3-0-0

08/21/2020

1-10-2

1-10-2

Scale = 1:10.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	0.00	4-5	>999	240	MT18HS	197/144
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	5	>999	240		
									Weight: 13 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS.

(size) 5=0-4-11, 4=Mechanical  
 Max Horz 5=68(LC 7)  
 Max Uplift 5=291(LC 4), 4=707(LC 21)  
 Max Grav 5=1320(LC 21), 4=129(LC 4)

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

TOP CHORD 2-5=-1111/269, 3-4=-89/529

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=291, 4=707.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard Except:

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



August 21, 2020

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job 400477	Truss J48	Truss Type Jack-Open	<div> <div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/21/2020</div> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID: Ej7EWovY_94Pzi7UVy1gWAZ_t70-GMPFwdsLJGIIUZzC4nqqoKfyf8MM92sqbFANSlylj4P
Wheeler Lumber,	Waverly, KS 66871				8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:52 2020 Page 1 1gWAZ_t70-GMPFwdsLJGIIUZzC4nqqoKfyf8MM92sqbFANSlylj4P

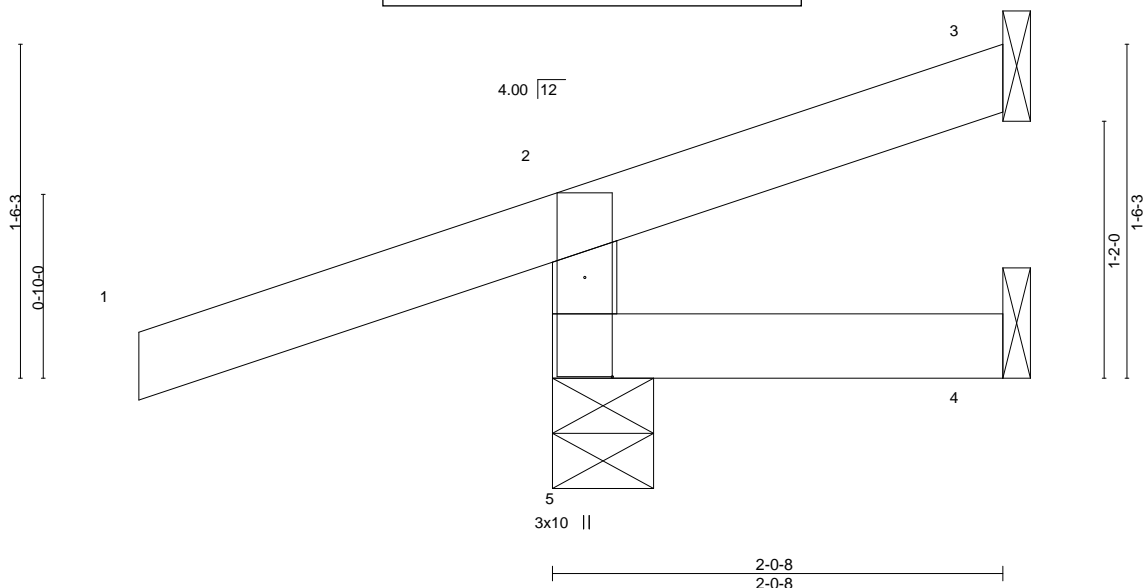


Plate Offsets (X,Y)-- [5:0-5-6,0-1-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15		TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15		BC	0.08	Vert(CT)	0.00	4-5	>999	240	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	-0.00	5	>999	240	Weight: 8 lb FT = 10%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 5=0-5-8, 3=Mechanical, 4=Mechanical  
 Max Horz 5=52(LC 4)  
 Max Uplift 5=133(LC 4), 3=15(LC 8), 4=5(LC 1)  
 Max Grav 5=302(LC 1), 3=10(LC 1), 4=27(LC 3)

#### FORCES.

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

TOP CHORD 2-5=260/137

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=133.
- 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.



August 21, 2020

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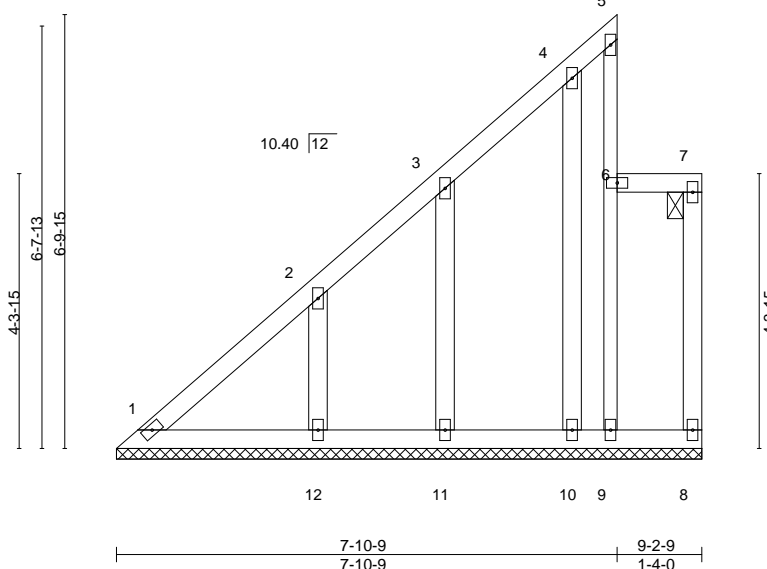


16023 Swingley Ridge Rd  
 Chesterfield, MO 63017



Job	Truss	Truss Type	<div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-gx4OYevDb7sL1hnmvOXPzHVjMNLMO4GHDO134ylj4M</div> <div>08/21/2020</div>		Lot 74 RR - Raising Hope House 2021
400477	LAY1	GABLE	1	1	I42521727
Wheeler Lumber, Waverly, KS 66871		Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:55 2020 Page 1			
		<div>7-10-9</div> <div>7-10-9</div> <div>9-2-9</div> <div>1-4-0</div>			

Scale = 1:36.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
				Weight: 46 lb FT = 10%					

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

All bearings 9-2-9.  
 (lb) - Max Horz 1=277(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 8, 11, 10 except 12=-135(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 8, 11, 10 except 12=277(LC 15)

#### FORCES.

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 8, 11, 10 except (jt=lb) 12=135.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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



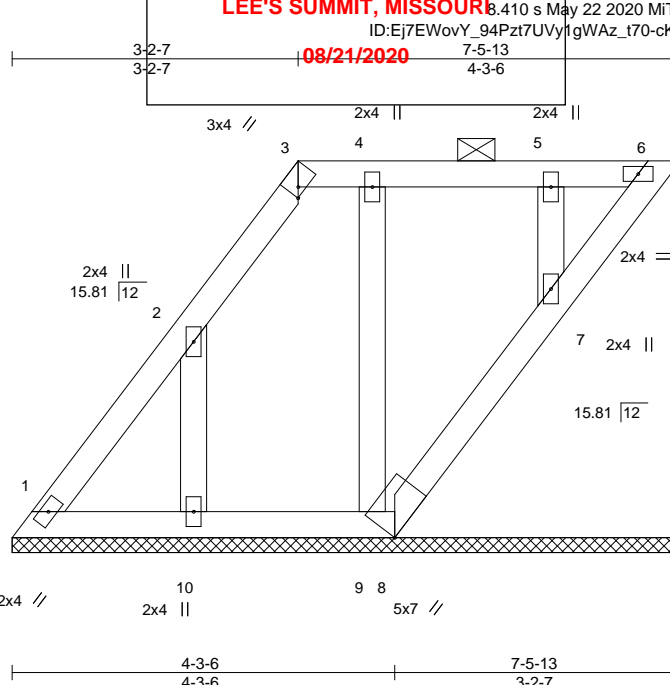
16023 Swingley Ridge Rd  
 Chesterfield, MO 63017





Job	Truss	Truss Type	<b>RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</b>	Ply	Lot 74 RR - Raising Hope House 2021
400477	LAY4	GABLE		1	I42521730

Wheeler Lumber, Waverly, KS 66871



Scale = 1:25.8

Plate Offsets (X,Y)--	[3:0-1-3,Edge]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999	GRIP
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	6	n/a	n/a	197/144
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 29 lb FT = 10%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

All bearings 7-5-13.  
(lb) - Max Horz 1=160(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 8, 9, 7 except 10=159(LC 8)  
Max Grav All reactions 250 lb or less at joint(s) 1, 6, 8, 10, 9, 7

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 8, 9, 7 except (jt=lb) 10=159.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

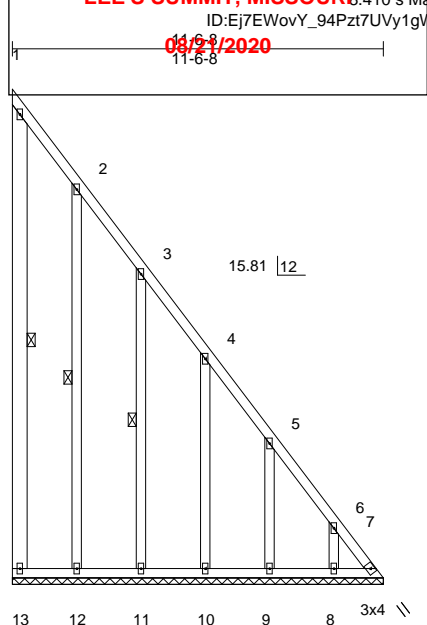
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job	Truss	Truss Type	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply	Lot 74 RR - Raising Hope House 2021
400477	LAY5	GABLE		1	I42521731

Wheeler Lumber, Waverly, KS 66871



Scale = 1:71.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 99 lb	FT = 10%

#### LUMBER-

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

#### 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.  
WEBS 1 Row at midpt 1-13, 2-12, 3-11

#### REACTIONS.

All bearings 11-6-8.  
(lb) - Max Horz 13=-592(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 13 except 7=-290(LC 7), 12=-165(LC 9), 11=-180(LC 9), 10=-174(LC 9), 9=-179(LC 9), 8=-158(LC 9)  
Max Grav All reactions 250 lb or less at joint(s) 13, 12, 11, 10, 9, 8 except 7=743(LC 9)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-252/120, 3-4=-433/193, 4-5=-609/266, 5-6=-791/343, 6-7=-940/404  
BOT CHORD 12-13=-247/591, 11-12=-247/591, 10-11=-247/591, 9-10=-247/591, 8-9=-247/591, 7-8=-247/591

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 7=290, 12=165, 11=180, 10=174, 9=179, 8=158.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 21, 2020

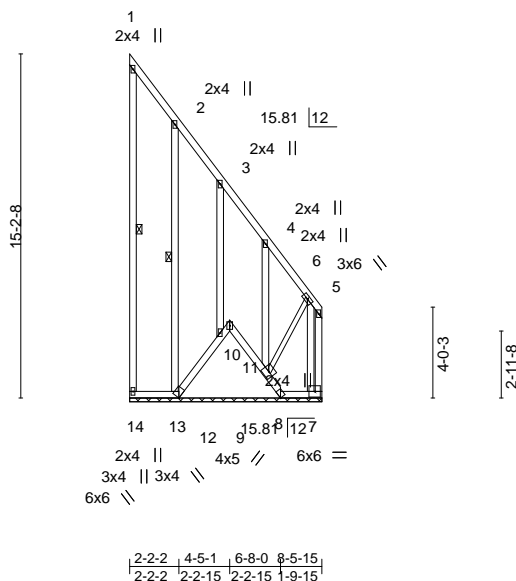
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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



16023 Swingley Ridge Rd  
Chesterfield, MO 63017

Job 400477	Truss LAY6	Truss Type GABLE	<div style="text-align: center;"> <b>RELEASE FOR CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b>  <b>08/21/2020</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521732 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:00:59 2020 Page 1 ID:Ej7EWovY_94PztUVy1gWAZ_t70-YiKuO0ykfQdlqe?Y?ISTapSBkzIY19asCrMFCrylj4I
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.01	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 87 lb	FT = 10%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 1-14, 2-13

#### REACTIONS.

All bearings 8-5-15.  
 (lb) - Max Horz 14=-387(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 14, 8 except 7=-493(LC 7), 12=-548(LC 9), 10=-770(LC 7), 13=-164(LC 9), 11=-169(LC 9), 9=-1288(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) 14, 8, 11 except 7=1068(LC 9), 12=373(LC 7), 10=1019(LC 9), 13=262(LC 16), 9=787(LC 7)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-261/124, 3-4=-450/202, 4-5=-596/256  
 BOT CHORD 13-14=-293/387, 12-13=-293/387, 11-12=-506/667, 10-11=-501/635, 9-10=-498/643  
 WEBS 5-7=-843/451, 5-9=-431/753

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 8 except (jt=lb) 7=493, 12=548, 10=770, 13=164, 11=169, 9=1288.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11, 9.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 21, 2020

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017



Job

400477

Truss

LAY7

Truss Type

GABLE

Wheeler Lumber,

Waverly, KS 66871

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

8-9-1

08/21/2020

8-9-1

1

1

Lot 74 RR - Raising Hope House 2021

I42521733

Job Reference (optional)

8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:00 2020 Page 1

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Scale = 1:63.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
BCLL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 64 lb	FT = 10%

#### LUMBER-

TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF No.2  
 OTHERS 2x4 SPF No.2  
 WEDGE  
 Right: 2x4 SPF No.2

#### 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.  
 WEBS 1 Row at midpt 1-11, 2-10

#### REACTIONS.

All bearings 8-9-1.  
 (lb) - Max Horz 11=-477(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 11 except 10=-186(LC 9), 9=-172(LC 9), 6=-337(LC 7), 8=-185(LC 9), 7=-348(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) 11, 10, 9, 8, 7 except 6=812(LC 9)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-264/126, 3-4=-439/195, 4-5=-626/275, 5-6=-940/406  
 BOT CHORD 10-11=-199/477, 9-10=-199/477, 8-9=-199/477, 7-8=-199/477, 6-7=-199/477  
 WEBS 5-7=-216/368

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 10=186, 9=172, 6=337, 8=185, 7=348.
- 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.

August 21,2020

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job 400477	Truss LAY8	Truss Type GABLE	<div> <div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/21/2020</div> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521734 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:00 2020 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-1vuHbMzMQj9SoakYSzi60_HhN2a1eZ?RV6oklylj4H
Wheeler Lumber, Waverly, KS 66871					

Scale = 1:71.6

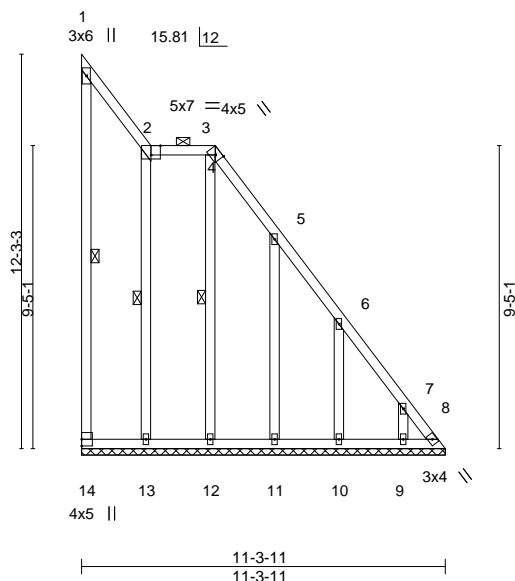


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [4:0-2-3,Edge]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a - n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	n/a - n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01 8 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 79 lb	FT = 10%

#### LUMBER-

TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF 2100F 1.8E  
 OTHERS 2x4 SPF No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 1-14, 2-13, 3-12

#### REACTIONS.

All bearings 11-3-11.  
 (lb) - Max Horz 14=-462(LC 4)  
 Max Uplift All uplift 100 lb or less at joint(s) except 14=-238(LC 6), 8=-318(LC 7), 13=-194(LC 5), 12=-247(LC 4), 11=-188(LC 9), 10=-177(LC 9), 9=-151(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) 14, 11, 10, 9 except 8=470(LC 4), 13=353(LC 15), 12=258(LC 16)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 4-5=-349/241, 5-6=-416/296, 6-7=-512/369, 7-8=-589/427  
 BOT CHORD 13-14=-257/363, 12-13=-258/364, 11-12=-258/364, 10-11=-258/364, 9-10=-258/364, 8-9=-258/364

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 14, 318 lb uplift at joint 8, 194 lb uplift at joint 13, 247 lb uplift at joint 12, 188 lb uplift at joint 11, 177 lb uplift at joint 10 and 151 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21, 2020

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job 400477	Truss LAY9	Truss Type GABLE	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521735 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:01 2020 Page 1 ID:Ej7EWovY_94Pzt7Uvy1gWAZ_t70-V5Rfpiz_B1t03y9x6AVxfEXY_mSLm6d9f9rLgkyIj4G
Wheeler Lumber, Waverly, KS 66871		<div style="text-align: center;">         3-0-12 08/21/2020 6-1-8          3-0-12 3-0-12       </div>			
		3x4 =			

Scale = 1:27.7

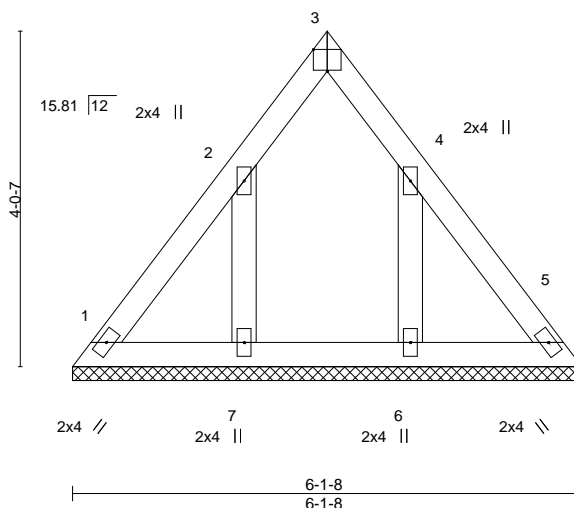


Plate Offsets (X,Y)--		[3:Edge,0-3-2]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.05
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-P
			<b>DEFL.</b>
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 5 n/a n/a
			<b>PLATES</b>
			MT20
			<b>GRIP</b>
			197/144
			Weight: 23 lb FT = 10%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

All bearings 6-1-8.  
 (lb) - Max Horz 1=-103(LC 4)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 7=-149(LC 8), 6=-148(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 7=149, 6=148.
- 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.



August 21, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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



16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

**RELEASE FOR CONSTRUCTION**  
**AS NOTED ON PLANS REVIEW**  
**DEVELOPMENT SERVICES**  
**LEE'S SUMMIT, MISSOURI**  
**08/21/2020**

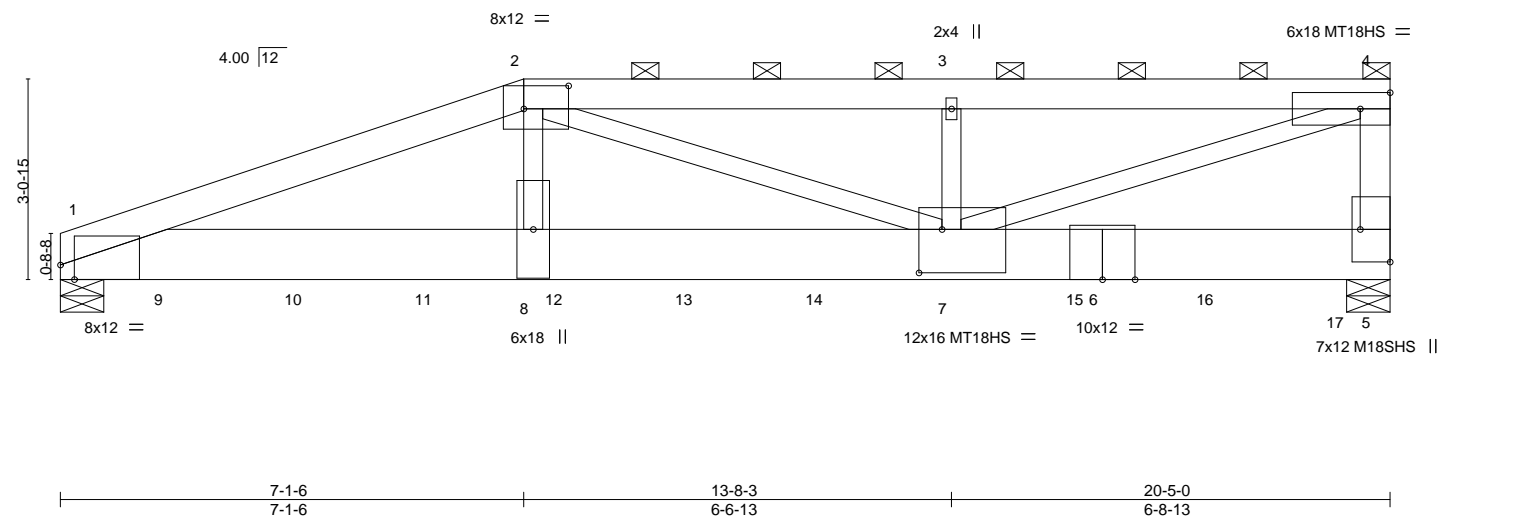
Job 400477	Truss R1	Truss Type Half Hip Girder	Ply <b>2</b>	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:03 2020 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-RUZPEN?Eje8kGJIUEaXPkfcjavuEoES7TKSLdyIj4E
Wheeler Lumber, Waverly, KS 66871				

7-1-6  
7-1-6

13-8-3  
6-6-13

20-5-0  
6-8-13

Scale = 1:35.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.30	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.53	M18SHS		197/144	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.06	MT18HS		197/144	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.18	Weight: 280 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SPF 1650F 1.4E	TOP CHORD	Structural wood sheathing directly applied or 3-6-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-1 max.): 2-4.
BOT CHORD	2x10 SP DSS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2 *Except*		
	4-5: 2x6 SPF No.2, 2-7,4-7: 2x4 SPF 2100F 1.8E		

REACTIONS.	
(size)	1=0-8-0, 5=0-8-0
Max Horz	1=83(LC 22)
Max Uplift	1=-908(LC 4), 5=-99(LC 4)
Max Grav	1=8864(LC 1), 5=10218(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-19337/1770, 2-3=-17189/1034, 3-4=-17189/1034, 4-5=-6570/435
BOT CHORD	1-8=-1650/18128, 7-8=-1694/18513, 5-7=-21/840
WEBS	2-8=-751/6493, 2-7=-1413/774, 3-7=-362/265, 4-7=-1078/17483

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-5-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=908.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 21,2020

Job 400477	Truss R1	Truss Type Half Hip Girder	<div> <div>RELEASE FOR CONSTRUCTION</div> <div>AS NOTED ON PLANS REVIEW</div> <div>DEVELOPMENT SERVICES</div> <div>LEE'S SUMMIT, MISSOURI</div> <div>08/21/2020</div> </div>	Ply 2	<div>Lot 74 RR - Raising Hope House 2021</div> <div>I42521736</div> <div>Job Reference (optional)</div>
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Wheeler Lumber, Waverly, KS 66871

8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:03 2020 Page 2

ID:Ej7EWovY\_94Pzt7UVy1gWAz\_t70-RUZPEN?Eje8kJGIJEaXPkfcijavuEoES7TKSLdyIj4E

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 754 lb down and 153 lb up at 1-7-12, 347 lb down and 24 lb up at 1-7-12, 1123 lb down and 197 lb up at 3-7-12, 754 lb down and 182 lb up at 3-7-12, 967 lb down and 31 lb up at 5-7-12, 754 lb down and 94 lb up at 5-7-12, 967 lb down and 70 lb up at 7-7-12, 754 lb down and 109 lb up at 7-7-12, 1055 lb down and 191 lb up at 9-7-12, 754 lb down and 109 lb up at 9-7-12, 1057 lb down and 163 lb up at 11-7-12, 754 lb down and 109 lb up at 11-7-12, 1057 lb down and 23 lb up at 13-7-12, 754 lb down and 109 lb up at 13-7-12, 1057 lb down at 15-7-12, 754 lb down and 109 lb up at 15-7-12, 1053 lb down at 17-7-12, 754 lb down and 109 lb up at 17-7-12, and 1062 lb down at 19-7-12, and 759 lb down and 104 lb up at 19-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

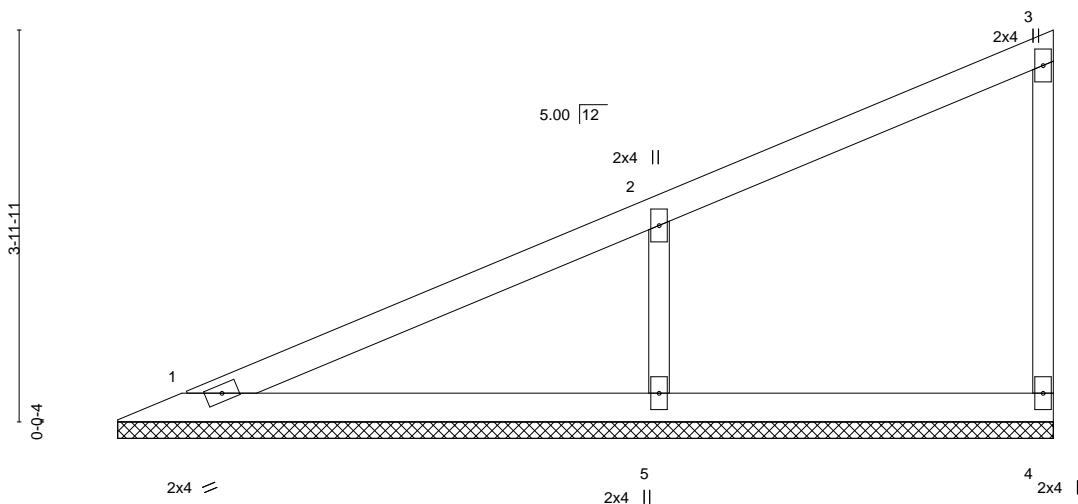
Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-1812(F=-754, B=-1057) 9=-1101(F=-754, B=-347) 10=-1878(F=-754, B=-1123) 11=-1721(F=-754, B=-967) 12=-1721(F=-754, B=-967) 13=-1809(F=-754, B=-1055) 14=-1812(F=-754, B=-1057) 15=-1812(F=-754, B=-1057) 16=-1807(F=-754, B=-1053) 17=-1821(F=-759, B=-1062)

Job 400477	Truss V1	Truss Type Valley	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-RUZPEN?Eje8kGJIJEaXPkfcqga5nE?TS7TKSLdyIj4E 08/21/2020	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521737 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:03 2020 Page 1 9-6-8 9-6-8
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Scale = 1:23.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 26 lb	FT = 10%

#### LUMBER-

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

#### 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) 1=9-5-14, 4=9-5-14, 5=9-5-14  
 Max Horz 1=159(LC 5)  
 Max Uplift 4=-23(LC 5), 5=-129(LC 8)  
 Max Grav 1=172(LC 1), 4=122(LC 1), 5=487(LC 1)

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

WEBS 2-5=-370/182

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=129.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 21, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

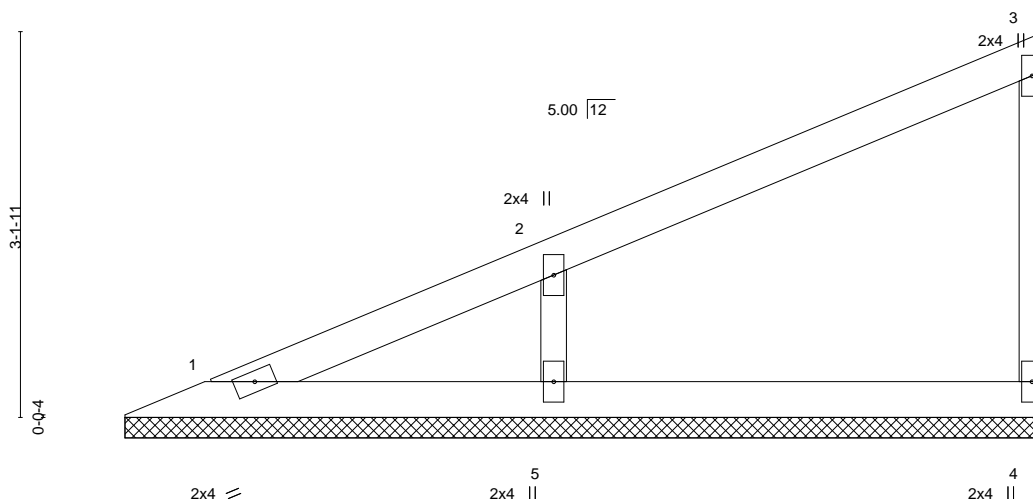
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



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Job 400477	Truss V2	Truss Type Valley	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521738 Job Reference (optional) ID:Ej7EWovY_94Pzt7UVy1gWaz_t70-vg7nRj0tUyGbxQtVnl2eHs90y_StzT0bL640t3ylj4D
Wheeler Lumber, Waverly, KS 66871		8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:04 2020 Page 1 08/21/2020			



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 20 lb	FT = 10%

#### LUMBER-

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

#### 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) 1=7-5-14, 4=7-5-14, 5=7-5-14  
 Max Horz 1=122(LC 8)  
 Max Uplift 4=-26(LC 8), 5=-102(LC 8)  
 Max Grav 1=81(LC 16), 4=141(LC 1), 5=384(LC 1)

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

WEBS 2-5=-299/153

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=102.
- 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.



August 21, 2020

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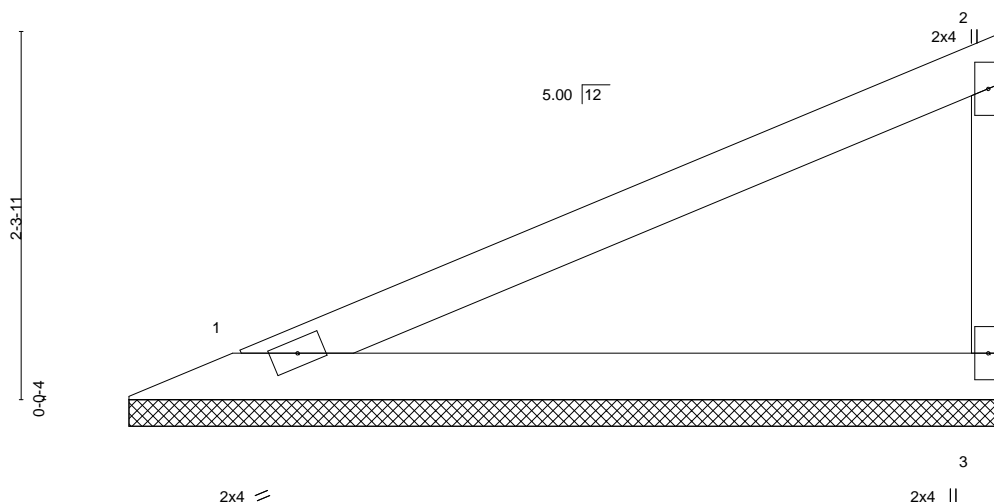
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RELEASE FOR  
 CONSTRUCTION  
 AS NOTED ON PLANS REVIEW  
 DEVELOPMENT SERVICES  
 LEE'S SUMMIT, MISSOURI  
 08/21/2020

Job 400477	Truss V3	Truss Type Valley	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) ID: Ej7EWovY_94Pzt7UvY1gWaz_t70-vg7nRj0tUyGbxQtVnl2eHs9zT_QwzTrbL640t3ylj4D
Wheeler Lumber, Waverly, KS 66871			8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:04 2020 Page 1 Scale = 1:14.4	



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 14 lb	FT = 10%

**LUMBER-**

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins, except end verticals.

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

**REACTIONS.** (size) 1=5-5-14, 3=5-5-14

Max Horz 1=86(LC 5)

Max Uplift 1=31(LC 8), 3=48(LC 8)

Max Grav 1=211(LC 1), 3=211(LC 1)

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

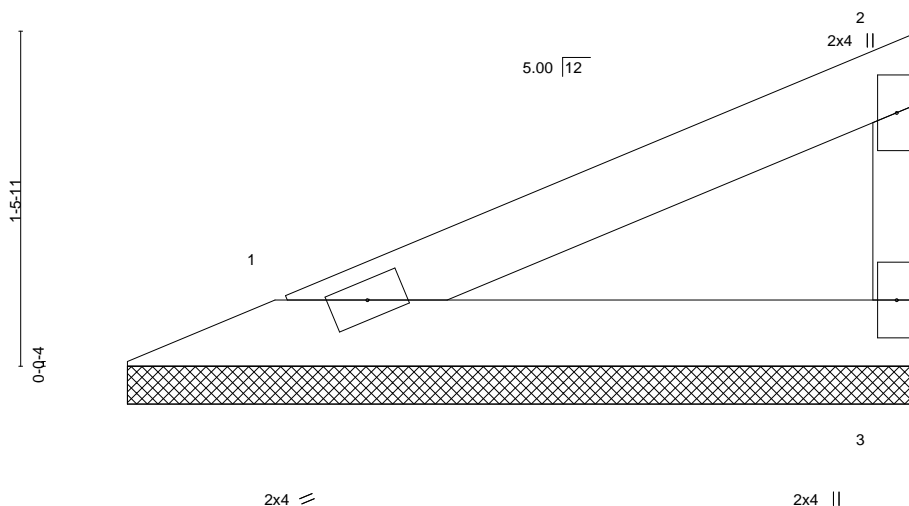
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Gable requires continuous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



August 21, 2020

Job 400477	Truss V4	Truss Type Valley	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:05 2020 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-NshAf30VFGOSYZSiL?Ztp4iDnOoeiw4lampZPVylj4C
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08/21/2020



Scale = 1:10.1

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

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 1=3-5-14, 3=3-5-14  
 Max Horz 1=49(LC 5)  
 Max Uplift 1=-18(LC 8), 3=-28(LC 8)  
 Max Grav 1=121(LC 1), 3=121(LC 1)

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

#### NOTES-

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



August 21, 2020

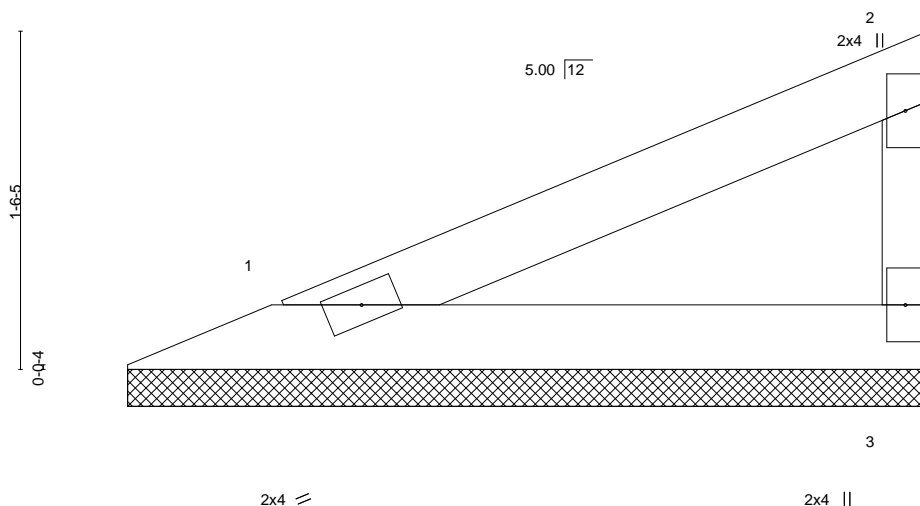
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

Job 400477	Truss V5	Truss Type Valley	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521741 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:05 2020 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-NshAf30VFGOSYZSiL?Ztp4iCbOoXiw4lampZPVylj4C
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 8 lb	FT = 10%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

**REACTIONS.** (size) 1=3-7-6, 3=3-7-6  
 Max Horz 1=52(LC 5)  
 Max Uplift 1=18(LC 8), 3=29(LC 8)  
 Max Grav 1=126(LC 1), 3=126(LC 1)

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

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

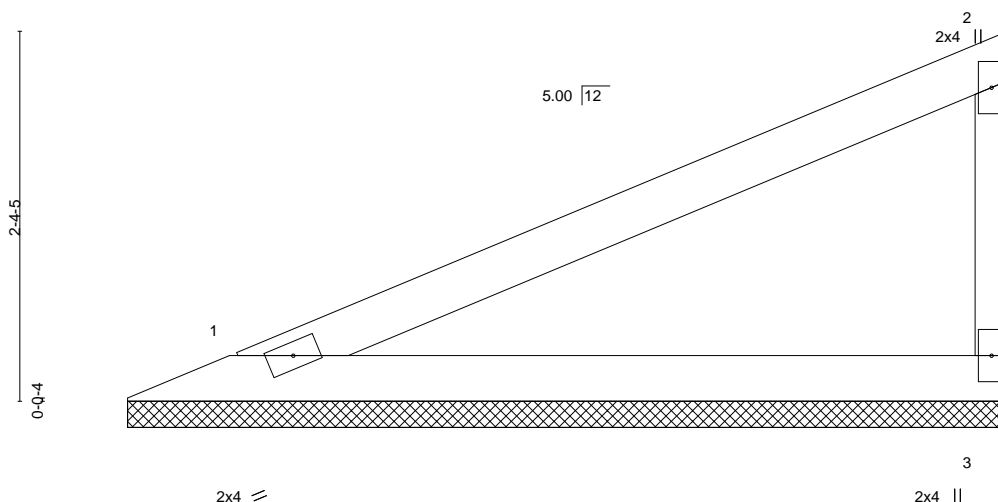


August 21, 2020

Job 400477	Truss V6	Truss Type Valley	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b>  <b>08/21/2020</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521742 Job Reference (optional) ID:Ej7EWovY_94PztUVy1gWAZ_t70-r3FYsP170ZWJAj1uvj46MHEJan6BRNKupQZ6yyylj4B
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Wheeler Lumber, Waverly, KS 66871

Scale = 1:14.7



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

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 1=5-7-6, 3=5-7-6  
 Max Horz 1=88(LC 5)  
 Max Uplift 1=32(LC 8), 3=49(LC 8)  
 Max Grav 1=216(LC 1), 3=216(LC 1)

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

#### NOTES-

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



August 21, 2020

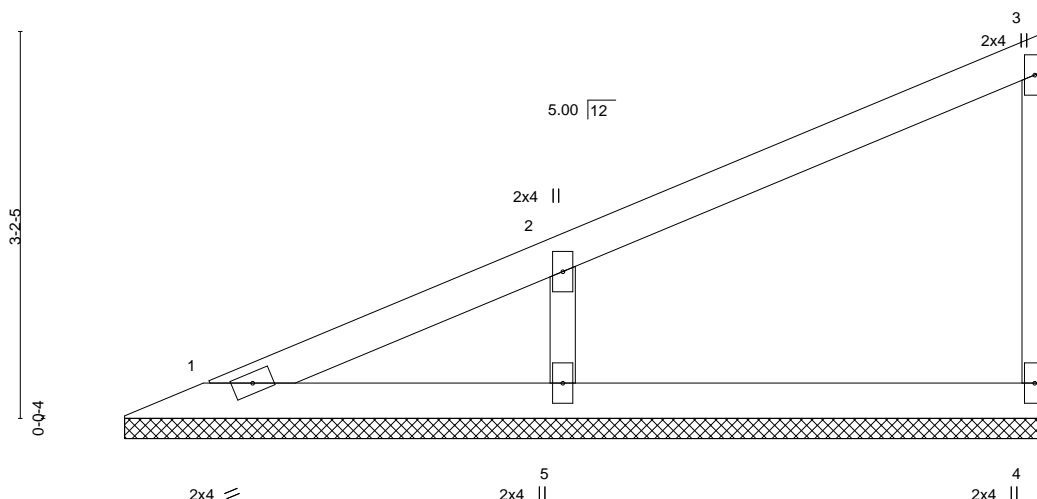
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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 Chesterfield, MO 63017

Job 400477	Truss V7	Truss Type Valley	<b>RELEASE FOR CONSTRUCTION</b> <b>AS NOTED ON PLANS REVIEW</b> <b>DEVELOPMENT SERVICES</b> <b>LEE'S SUMMIT, MISSOURI</b> ID: Ej7EWovY_94Pzt7UVy1gWAz_t70-rFYsP170ZWJAj1uvj46MHEMOn8KRNUupQZ6yytj4B 08/21/2020	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521743 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:06 2020 Page 1 WAZ_t70-rFYsP170ZWJAj1uvj46MHEMOn8KRNUupQZ6yytj4B
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Scale = 1:19.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 20 lb	FT = 10%

#### LUMBER-

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

#### 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) 1=7-7-6, 4=7-7-6, 5=7-7-6  
 Max Horz 1=124(LC 5)  
 Max Uplift 4=25(LC 8), 5=103(LC 8)  
 Max Grav 1=86(LC 16), 4=140(LC 1), 5=389(LC 1)

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

WEBS 2-5=-303/155

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=103.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 21, 2020

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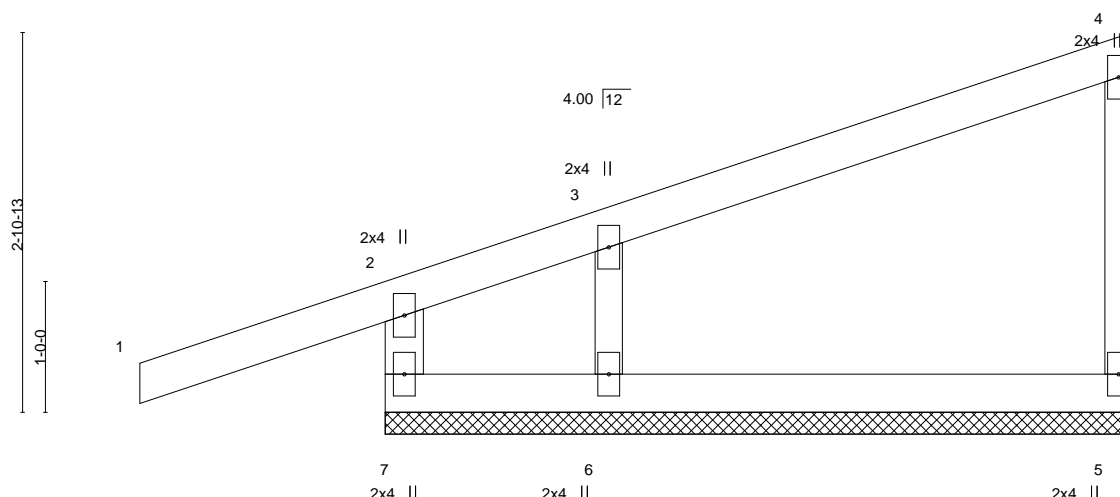
16023 Swingley Ridge Rd  
 Chesterfield, MO 63017



Job 400477	Truss V8	Truss Type Valley	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b>  <b>08/21/2020</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521744 Job Reference (optional) ID: Ej7EWovY_94Pzt7UVy1gWAZ_t70-JFpw3l2lnte9otc4TQbLvNwBuiAq3124lgUOylj4A
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Wheeler Lumber, Waverly, KS 66871

Scale = 1:17.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	0.01	1	n/r	120	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.01	1	n/r	120	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 19 lb	FT = 10%

#### LUMBER-

TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF No.2 \*Except\*  
 4-5: 2x3 SPF No.2  
 OTHERS 2x3 SPF No.2

#### BRACING-

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

#### REACTIONS.

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

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

#### NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=102.
- 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.



August 21, 2020

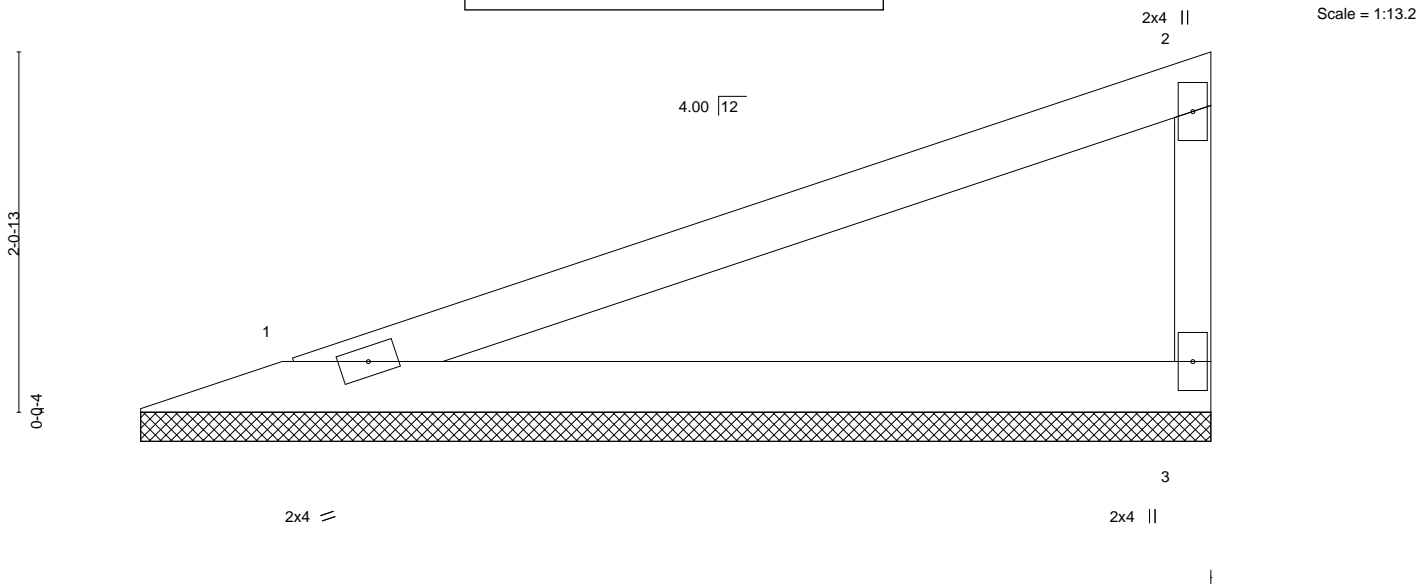
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Job 400477	Truss V9	Truss Type Valley	<div style="text-align: center;"> <b>RELEASE FOR</b>  <b>CONSTRUCTION</b>  <b>AS NOTED ON PLANS REVIEW</b>  <b>DEVELOPMENT SERVICES</b>  <b>LEE'S SUMMIT, MISSOURI</b>  <b>08/21/2020</b> </div>	Ply 1	Lot 74 RR - Raising Hope House 2021 I42521745 Job Reference (optional) 8.410 s May 22 2020 MiTek Industries, Inc. Fri Aug 21 06:01:07 2020 Page 1 ID:Ej7EWovY_94Pzt7UVy1gWAZ_t70-JFpw3l2lnte9otc4TQbLvVnSDBRoAqa124lgUOylj4A
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 15 lb	FT = 10%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x3 SPF No.2

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

**REACTIONS.** (size) 1=6-1-12, 3=6-1-12  
 Max Horz 1=77(LC 5)  
 Max Uplift 1=-38(LC 4), 3=-49(LC 8)  
 Max Grav 1=232(LC 1), 3=232(LC 1)

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

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



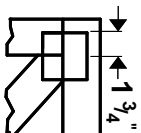
August 21, 2020

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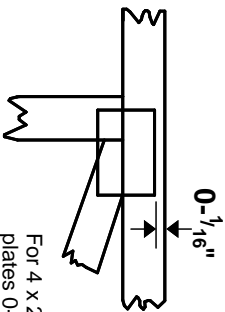
**MiTek**  
 16023 Swingley Ridge Rd  
 Chesterfield, MO 63017

## Symbols

### PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

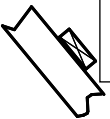
Plate location details available in **MiTek 20/20** software or upon request.

### PLATE SIZE



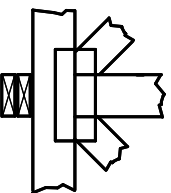
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

### BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

## Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)

