



RE: 400144
Lot 62 RR

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

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

Design Code: IRC2018/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: N/A

Wind Speed: 115 mph

Roof Load: 45.0 psf

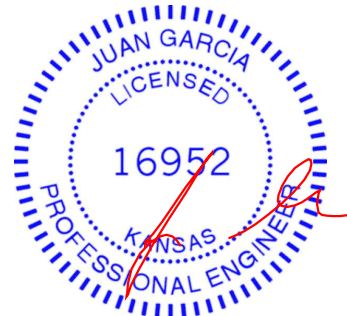
Floor Load: N/A psf

This package includes 54 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I40680345	a1	3/19/2020	27	I40680371	e2	3/19/2020
2	I40680346	a2	3/19/2020	28	I40680372	g1	3/19/2020
3	I40680347	a3	3/19/2020	29	I40680373	g2	3/19/2020
4	I40680348	b1	3/19/2020	30	I40680374	g3	3/19/2020
5	I40680349	b2	3/19/2020	31	I40680375	g4	3/19/2020
6	I40680350	c1	3/19/2020	32	I40680376	j1	3/19/2020
7	I40680351	c2	3/19/2020	33	I40680377	j2	3/19/2020
8	I40680352	c3	3/19/2020	34	I40680378	j3	3/19/2020
9	I40680353	c4	3/19/2020	35	I40680379	j4	3/19/2020
10	I40680354	c5	3/19/2020	36	I40680380	j5	3/19/2020
11	I40680355	c6	3/19/2020	37	I40680381	j6	3/19/2020
12	I40680356	c7	3/19/2020	38	I40680382	j7	3/19/2020
13	I40680357	c8	3/19/2020	39	I40680383	j8	3/19/2020
14	I40680358	c9	3/19/2020	40	I40680384	j9	3/19/2020
15	I40680359	d1	3/19/2020	41	I40680385	j10	3/19/2020
16	I40680360	d2	3/19/2020	42	I40680386	j11	3/19/2020
17	I40680361	d3	3/19/2020	43	I40680387	j12	3/19/2020
18	I40680362	d4	3/19/2020	44	I40680388	j13	3/19/2020
19	I40680363	d5	3/19/2020	45	I40680389	j14	3/19/2020
20	I40680364	d6	3/19/2020	46	I40680390	j15	3/19/2020
21	I40680365	d7	3/19/2020	47	I40680391	j16	3/19/2020
22	I40680366	d8	3/19/2020	48	I40680392	lay2	3/19/2020
23	I40680367	d9	3/19/2020	49	I40680393	lay3	3/19/2020
24	I40680368	d10	3/19/2020	50	I40680394	v1	3/19/2020
25	I40680369	d11	3/19/2020	51	I40680395	v3	3/19/2020
26	I40680370	e1	3/19/2020	52	I40680396	v4	3/19/2020

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.
Truss Design Engineer's Name: Garcia, Juan
My license renewal date for the state of Kansas is April 30, 2020.
Kansas COA: E-943

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





RE: 400144 - Lot 62 RR

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

Site Information:

Project Customer: Project Name:
Lot/Block:
Address:
City, County:

Subdivision:

State:

No.	Seal#	Truss Name	Date
53	I40680397	v5	3/19/2020
54	I40680398	v6	3/19/2020



RE: 400144
Lot 62 RR

MiTek USA, Inc.
16023 Swingley Ridge Rd
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General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: N/A

Wind Speed: 115 mph

Roof Load: 45.0 psf

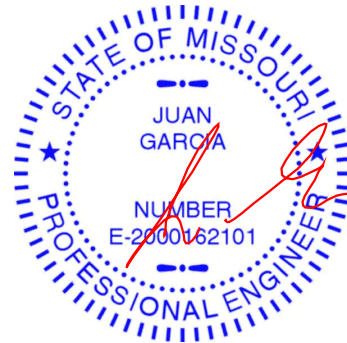
Floor Load: N/A psf

This package includes 54 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I40680345	a1	3/19/2020	27	I40680371	e2	3/19/2020
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4	I40680348	b1	3/19/2020	30	I40680374	g3	3/19/2020
5	I40680349	b2	3/19/2020	31	I40680375	g4	3/19/2020
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9	I40680353	c4	3/19/2020	35	I40680379	j4	3/19/2020
10	I40680354	c5	3/19/2020	36	I40680380	j5	3/19/2020
11	I40680355	c6	3/19/2020	37	I40680381	j6	3/19/2020
12	I40680356	c7	3/19/2020	38	I40680382	j7	3/19/2020
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26	I40680370	e1	3/19/2020	52	I40680396	v4	3/19/2020

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.
Truss Design Engineer's Name: Garcia, Juan
My license renewal date for the state of Missouri is December 31, 2020.
Missouri COA: 001193

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March 19, 2020



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Chesterfield, MO 63017
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Site Information:

Project Customer: Project Name:
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Address:
City, County:

Subdivision:

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No.	Seal#	Truss Name	Date
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54	I40680398	v6	3/19/2020

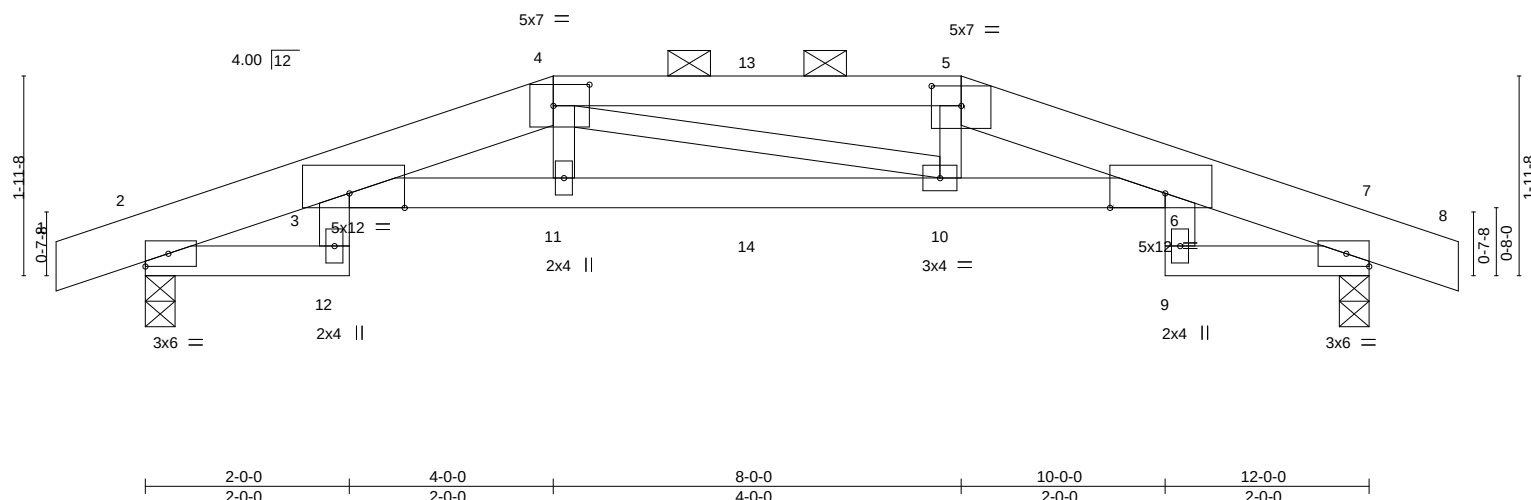
Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680345
400144	A1	Hip Girder	1	1		

Wheeler Lumber, Waverly, KS 66871

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-3ebR6pLj4_1km5RFAJ7oKk4Ng35UedmCJfQfxHzZLEQ

0-10-8	2-0-0	4-0-0	8-0-0	10-0-0	12-0-0	12-10-8
0-10-8	2-0-0	2-0-0	4-0-0	2-0-0	2-0-0	0-10-8

Scale = 1:22.6



LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.17 10-11	>813	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.32 10-11	>442	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.24 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.14 10-11	>999	240	Weight: 43 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.4E *Except*
4-5: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
3-12,6-9: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins, except
2-0-0 oc purlins (3-2-3 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 8-10-12 oc bracing.

REACTIONS.

(lb/size) 2=902/0-3-8, 7=902/0-3-8
Max Horz 2=30(LC 8)
Max Uplift 2=-197(LC 4), 7=-197(LC 5)

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

TOP CHORD 2-3=-386/94, 3-4=-2595/468, 4-13=-2698/479, 5-13=-2700/479, 5-6=-2696/469,
6-7=-386/89
BOT CHORD 3-11=-438/2586, 11-14=-432/2599, 10-14=-432/2599, 6-10=-430/2691

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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2 and 197 lb uplift at joint 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 52 lb up at 4-0-0, and 37 lb down and 52 lb up at 6-0-0, and 61 lb down and 52 lb up at 8-0-0 on top chord, and 231 lb down and 65 lb up at 4-0-0, and 34 lb down at 6-0-0, and 231 lb down and 65 lb up at 7-11-4 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: 1-4=-70, 4-5=-70, 5-8=-70, 2-12=-20, 3-6=-20, 7-9=-20



March 19,2020

Continued on page 2

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680345
400144	A1	Hip Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Mar 19 14:37:07 2020 Page 2
ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-3ebR6pLj4_1km5RFAJ7oKk4Ng35UedmCJfQfxHzZLEQ

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 4=-37(F) 5=-37(F) 11=-231(F) 10=-231(F) 13=-37(F) 14=-34(F)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	140680346
400144	A2	Roof Special	2	1		

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:01:33 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-t25yEDJ_6kE?RPVY2MYXWjO5THomA_MR8OJF_zzZOOW

-0-10-8	2-0-0	6-0-0	10-0-0	12-0-0	12-10-8
0-10-8	2-0-0	4-0-0	4-0-0	2-0-0	0-10-8

Scale = 1:22.4

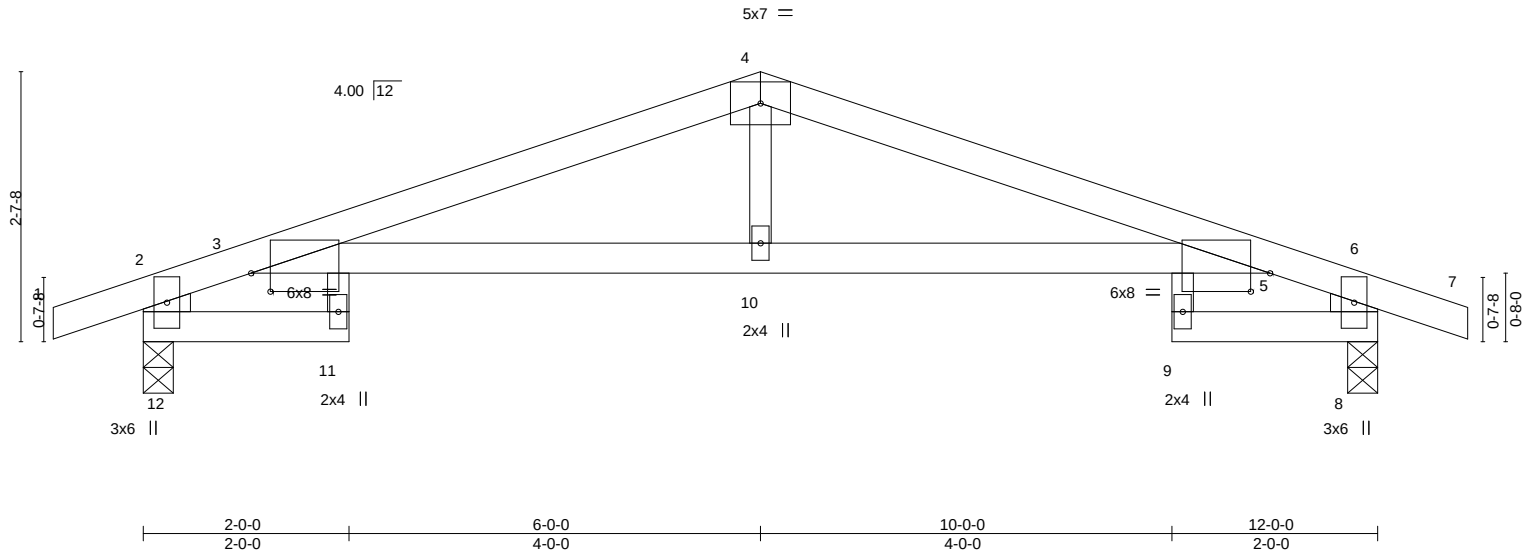


Plate Offsets (X,Y)-- [3:0-2-4,0-2-2], [5:0-2-4,0-2-2]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.15 11 >954 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.27 11 >515 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.24 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.12 11 >999 240	Weight: 35 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 3-11,5-9: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SPF No.2 *Except* 4-10: 2x3 SPF No.2	

REACTIONS. (size) 12=0-3-8, 8=0-3-8
Max Horz 12=27(LC 12)
Max Uplift 12=-113(LC 4), 8=-113(LC 5)
Max Grav 12=614(LC 1), 8=614(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1143/105, 4-5=-1143/116, 2-12=-615/123, 6-8=-615/121
BOT CHORD 3-10=-55/1062, 5-10=-55/1062
WEBS 4-10=0/300

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) except (it=lb) 12=113, 8=113.
- 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.



March 19, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	140680347
400144	A3	Roof Special	1	1		

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvTCQHtmQzKvNM-LEfLSYKds2Ms3Z4lc33m3wxFih8ivRcaN22oWPzZOOV

-0-10-8	2-0-0	6-0-0	10-0-0	11-11-8
0-10-8	2-0-0	4-0-0	4-0-0	1-11-8

Scale = 1:21.1

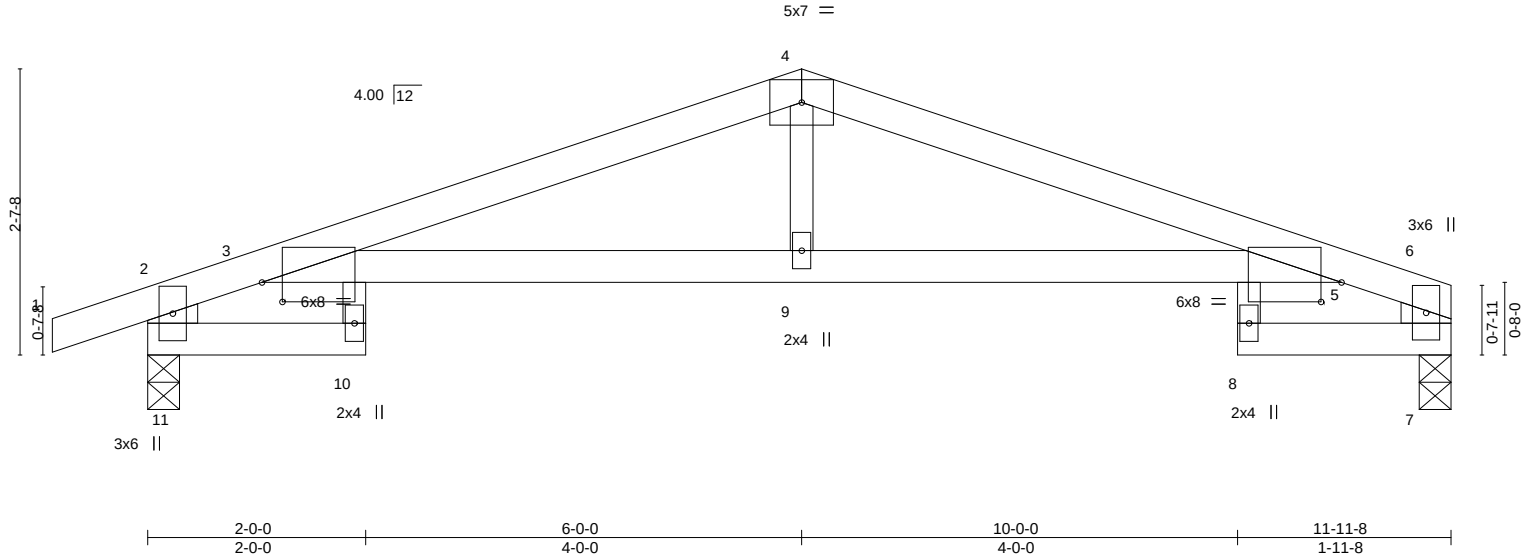


Plate Offsets (X,Y)-- [3:0-2-4,0-2-2], [5:0-2-4,0-2-2]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.15	8	>912	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.27	8	>505	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.24	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.12	10	>999	240	Weight: 34 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 3-10,5-8: 2x3 SPF No.2
 WEBS 2x6 SPF No.2 *Except*
 4-9: 2x3 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 6-0-0 oc bracing.

REACTIONS.

(size) 11=0-3-8, 7=0-3-8
 Max Horz 11=33(LC 8)
 Max Uplift 11=-114(LC 4), 7=-64(LC 5)
 Max Grav 11=616(LC 1), 7=531(LC 1)

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

TOP CHORD 3-4=-1151/123, 4-5=-1151/122, 2-11=-617/124, 6-7=-537/76
 BOT CHORD 3-9=-69/1071, 5-9=-69/1071
 WEBS 4-9=0/299

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) 11=114.
- 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.



March 19,2020

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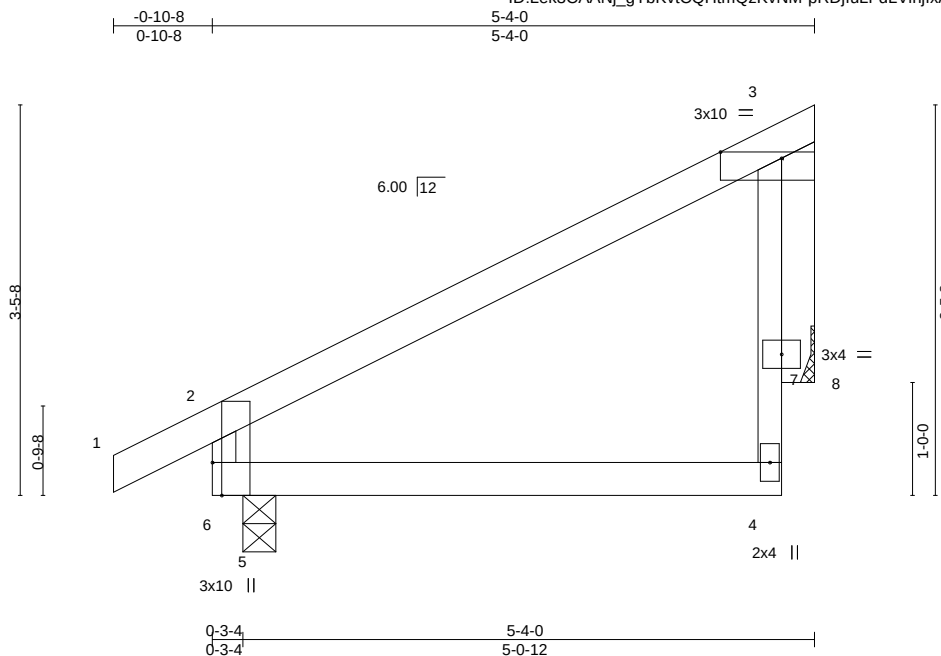
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680348
400144	B1	Monopitch	7	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:01:35 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-pRDjfuLFdLVihjfxAna?b8UWf5dNeuakcioM2rzZOOU



Scale = 1:20.4

Plate Offsets (X,Y)-- [2:0-0-10,0-1-4], [3:0-6-8,Edge], [6:0-3-8,Edge], [6:0-0-0,0-1-4]									
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)	-0.02 4-5 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.03 4-5 >999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.00 4-5 >999 240	Weight: 19 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=0-3-8, 8=Mechanical
Max Horz 5=95(LC 5)
Max Uplift 5=-38(LC 8), 8=-66(LC 8)
Max Grav 5=326(LC 1), 8=177(LC 1)

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

TOP CHORD 2-6=-271/78

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, 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.



March 19,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

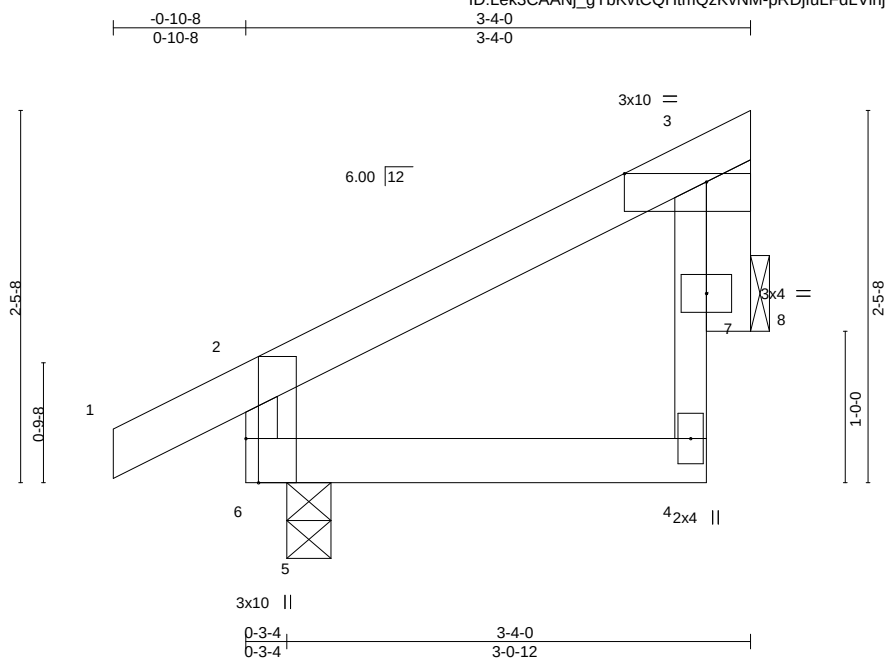


Plate Offsets (X,Y)-- [2:0-0-10,0-1-4], [3:0-6-8,Edge], [6:0-3-8,Edge], [6:0-0-0,0-1-4]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	-0.00	5	>999	240	Weight: 12 lb	FT = 10%

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

REACTIONS. (size) 5=0-3-8, 8=Mechanical
Max Horz 5=70(LC 5)
Max Uplift 5=-34(LC 8), 8=-36(LC 8)
Max Grav 5=244(LC 1), 8=79(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; 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) 5, 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.



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Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680350
400144	C1	GABLE	1	1		

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAAnj_gYbKvTCQHtmQzKvNM-Hdm5tELtOfdZJtE7jU5E8L0kNV_LNLUtqMXvaHZZOOT

0-10-8 10-2-11 20-3-8 10-0-13

Scale = 1:38.9

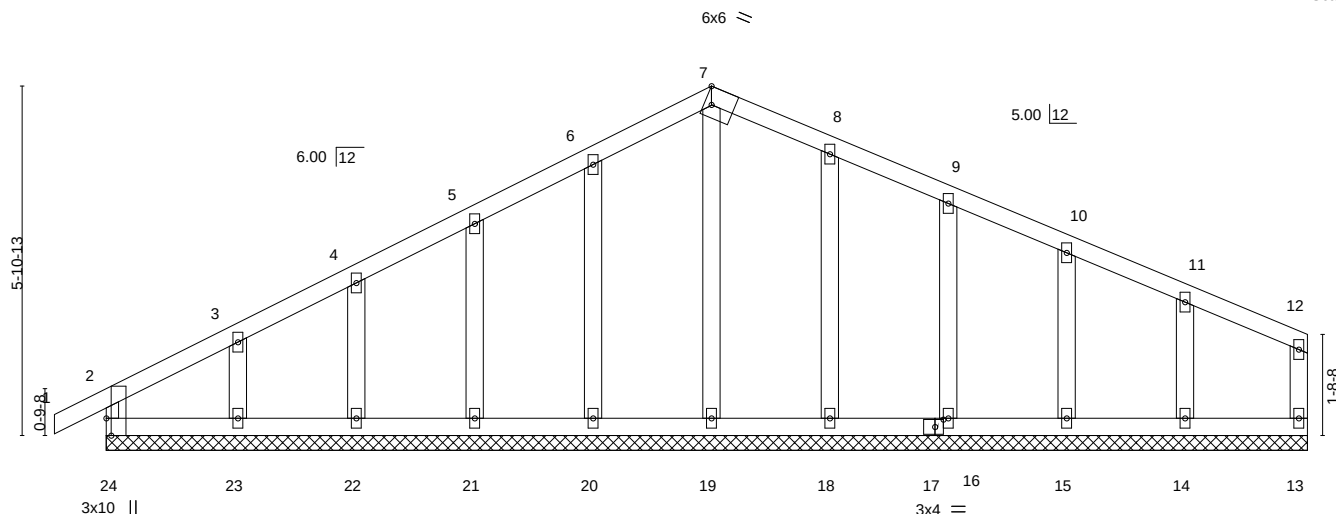


Plate Offsets (X,Y)--	[2:0-0-10,0-1-4], [7:Edge,0-3-8], [17:0-1-11,0-1-8], [24:0-3-8,Edge], [24:0-0-0,0-1-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 86 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 12-13: 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.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

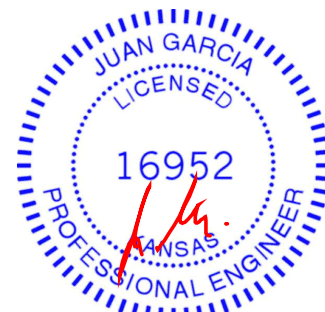
REACTIONS.

All bearings 20-3-8.
 (lb) - Max Horz 24=91(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 24, 13, 20, 21, 22, 23, 18, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 24, 13, 19, 20, 21, 22, 23, 18, 16, 15, 14

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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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) 24, 13, 20, 21, 22, 23, 18, 16, 15, 14.
- 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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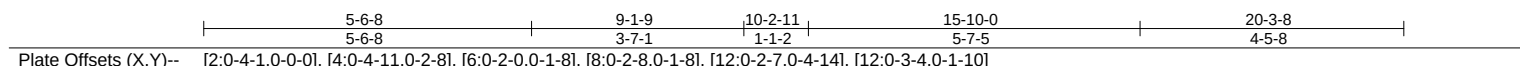
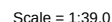
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ID:Lek3CAANj_gYbKvtCOHtmOzKvNM-lpKT4aMV9zIOW1pJHCdTgZZigv9U6kO130HT7kzZOOS



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 0.86		Vert(LL) -0.09 10-11	>999 360	MT20	197/144
TCDL 10.0		Lumber DOL 1.15		BC 0.74		Vert(CT) -0.17 10-11	>999 240		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.35		Horz(CT) 0.03 7	n/a n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S		Wind(LL) 0.05 10-11	>999 240	Weight: 75 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x3 SPF No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	2-12' 2x8 SP DSS		

REACTIONS. (size) 12=0-3-8, 7=0-3-8
 Max Horz 12=-90(LC 6)
 Max Uplift 12=-137(LC 8), 7=-112(LC 9)
 Max Grav 12=980(LC 1), 7=892(LC 1)

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

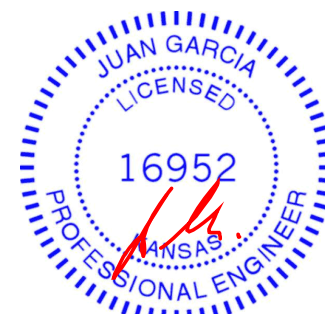
TOP CHORD 2-3=-1285/161, 3-4=-965/158, 4-5=-974/155, 5-6=-1121/147, 2-12=-874/167,
6-7=-850/131

BOT CHORD 11-12=-156/1041, 10-11=-156/1041, 8-10=-118/992

WEBS 3-10=-327/150, 4-10=-26/388, 5-10=-269/127, 6-8=-106/1005

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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) except (jt=lb) 12=137, 7=112.
- 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.



March 19, 2020



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	140680352
400144	C3	Roof Special Girder	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-hCSDVGOIha?8AKziPcfxm_e3yiq_aXtjXKmZBczZOOQ

0-10-8 5-6-9 10-2-11 16-9-8 20-3-8 28-0-12 35-10-0 39-4-0 40-2-8
0-10-8 5-6-9 4-8-2 6-6-13 3-6-0 7-9-4 7-9-4 3-6-0 0-10-8

Scale = 1:71.1

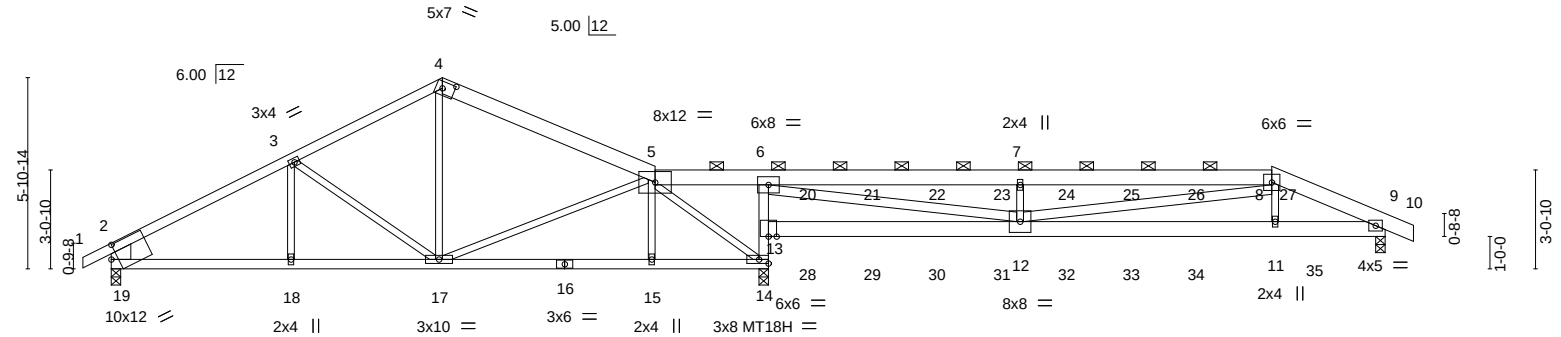


Plate Offsets (X,Y)--		[2-0-4-1,0-0-0], [4-0-4-9,0-2-8], [19-0-2-7,0-4-14], [19-0-3-4,0-1-10]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.89	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(LL) -0.18 11-12 >999 360
BCLL 0.0 *	Rep Stress Incr NO	WB 0.80	Vert(CT) -0.33 11-12 >703 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.02 14 n/a n/a
			Wind(LL) 0.16 11-12 >999 240
			PLATES
			MT20 197/144
			MT18H 197/144
			Weight: 173 lb FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
1-4: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
9-13: 2x6 SPF No.2
WEBS 2x3 SPF No.2 *Except*
6-12,8-12: 2x4 SPF No.2, 2-19: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-2 max.): 5-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
3-7-2 oc bracing: 13-14
6-0-0 oc bracing: 12-13.

REACTIONS.

(size) 19=0-3-8, 9=0-3-8, 14=0-3-8
Max Horz 19=106(LC 8)
Max Uplift 19=-158(LC 29), 9=-270(LC 9), 14=-386(LC 9)
Max Grav 19=895(LC 1), 9=1118(LC 22), 14=2159(LC 1)

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

TOP CHORD 2-3=-1135/198, 3-4=-828/192, 4-5=-830/193, 5-6=0/409, 6-7=-2800/707, 7-8=-2800/707, 8-9=-2313/522, 2-19=-797/186
BOT CHORD 18-19=-205/912, 17-18=-205/912, 15-17=-190/499, 14-15=-193/494, 13-14=-1456/354, 6-13=-1296/393, 12-13=-431/46, 11-12=-444/2046, 9-11=-437/2062
WEBS 3-17=-329/152, 4-17=-49/288, 5-17=-50/317, 5-14=-1114/149, 6-12=-697/3245, 7-12=-639/341, 8-12=-211/770, 8-11=0/401

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) 19=158, 9=270, 14=386.
- 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) 83 lb down and 62 lb up at 21-5-12, 83 lb down and 62 lb up at 23-5-12, 83 lb down and 62 lb up at 25-5-12, 83 lb down and 62 lb up at 27-5-12, 83 lb down and 62 lb up at 29-5-12, 83 lb down and 62 lb up at 31-5-12, 83 lb down and 62 lb up at 33-5-12, and 83 lb down and 62 lb up at 35-5-12, and 199 lb down and 145 lb up at 35-10-0 on top chord, and 23 lb down at 21-5-12, 23 lb down at 23-5-12, 23 lb down at 25-5-12, 23 lb down at 27-5-12, 23 lb down at 29-5-12, 23 lb down at 31-5-12, 23 lb down at 33-5-12, and 23 lb down at 35-5-12, and 58 lb down at 35-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680352
400144	C3	Roof Special Girder	1	1	Job Reference (optional)	

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

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-8=-70, 8-10=-70, 14-19=-20, 9-13=-20
Concentrated Loads (lb)
Vert: 8=-78(F) 11=-16(F) 20=-33(F) 21=-33(F) 22=-33(F) 23=-33(F) 24=-33(F) 25=-33(F) 26=-33(F) 27=-33(F) 28=-17(F) 29=-17(F) 30=-17(F) 31=-17(F) 32=-17(F)
33=-17(F) 34=-17(F) 35=-34(F)

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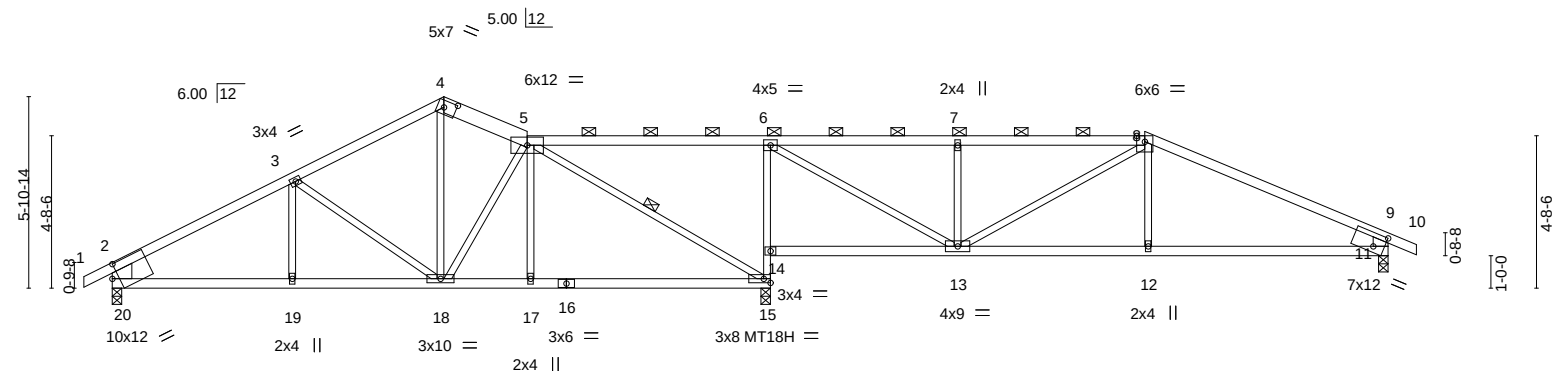
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ID:Lek3CAANj_gYbKvtCQHtmZKvNM-eba_wyP0DBFSPe75W1hQrPkPVWZW2QXc_dFgGVzZOOO

0-10-8 5-6-9 10-2-11 12-9-8 20-3-8 26-0-12 31-10-0 39-4-0 40-2-8
0-10-8 5-6-9 4-8-2 2-6-13 7-6-0 5-9-4 5-9-4 7-6-0 0-10-8

Scale = 1:71.0



	5-6-9 5-6-9	10-2-11 4-8-2	12-9-8 2-6-13	20-1-12 7-4-4	20-3-8 0-1-12	26-0-12 5-9-4	31-10-0 5-9-4	39-4-0 7-6-0	
Plate Offsets (X,Y)--	[2:0-4-1,0-0-0], [4:0-4-9,0-2-8], [9:0-3-0,0-0-0], [11:0-3-15,0-4-14], [11:0-2-9,0-1-1], [20:0-3-4,0-1-10], [20:0-2-7,0-4-14]								
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)	-0.10 15-17 >999 360	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC 0.61		Vert(CT)	-0.22 15-17 >999 240	MT18H	197/144
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.79		Horz(CT)	0.03 15 n/a n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.05 18-19 >999 240	Weight: 143 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 3-10-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-3 max.): 5-8.
BOT CHORD	2x4 SPF No.2 *Except* 6-15: 2x3 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 3-7-13 oc bracing: 14-15
WEBS	2x3 SPF No.2 *Except* 2-20: 2x8 SP DSS, 9-11: 2x6 SP DSS	WEBS	6-0-0 oc bracing: 13-14. 1 Row at midpt 5-15

REACTIONS. (size) 20=0-3-8, 11=0-3-8, 15=0-3-8
 Max Horiz 20=101(LC 8)
 Max Uplift 20=-141(LC 8), 11=-183(LC 9), 15=-273(LC 9)
 Max Grav 20=925(LC 1), 11=880(LC 22), 15=1855(LC 1)

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

TOP CHORD 2-3=-1191/167, 3-4=-875/159, 4-5=-830/177, 6-7=-875/258, 7-8=-877/260,
8-9=-1232/256, 2-20=-825/170, 9-11=-802/230

BOT CHORD 19-20=-173/960, 18-19=-173/960, 17-18=-57/833, 15-17=-55/837, 14-15=-1197/276,
6-14=-1129/306, 12-13=-151/1031, 11-12=-149/1035

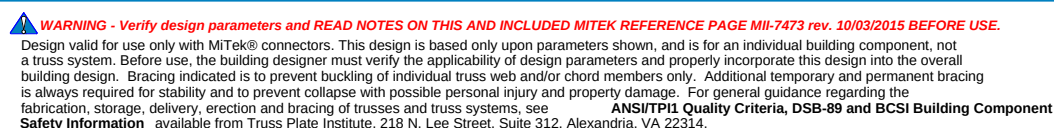
WEBS 3-18=-327/139, 4-18=-84/433, 5-18=-290/110, 5-15=-1167/74, 6-13=-190/1214,
7-13=-403/166, 8-12=-0/262, 5-17=0/270

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=141, 11=183, 15=273.
- 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.



March 19.2020



Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	140680355
400144	C6	Roof Special	1	1	Job Reference (optional)	

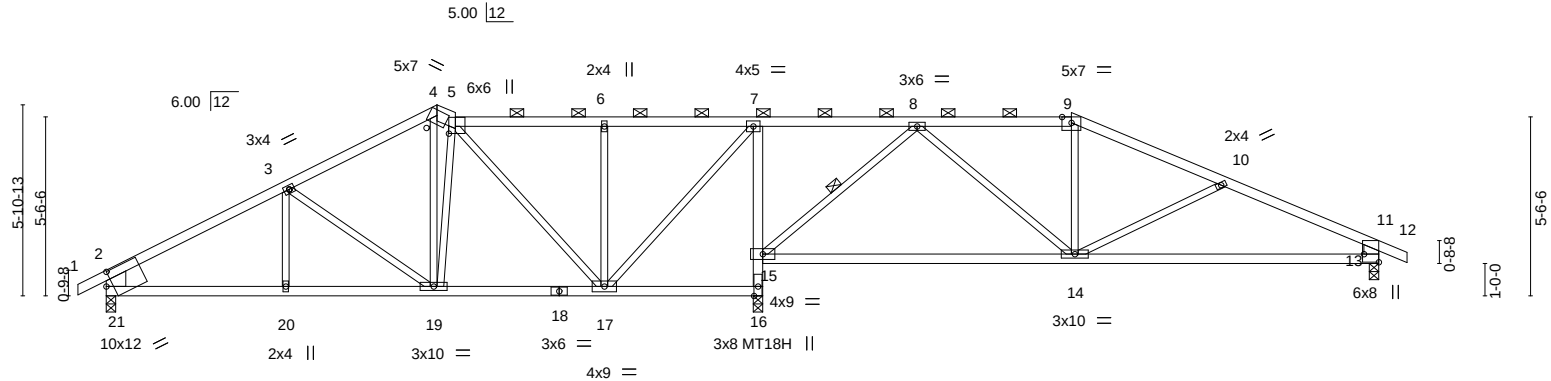
Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-6n8M7lQe_VNj1ohH4lCfNcGbMwswnxcmDH_DoxzZ0ON

0-10-8	5-6-9	10-2-11	10-9-8	15-4-12	20-3-8	25-0-12	29-10-0	34-5-8	39-4-0	40-2-8
0-10-8	5-6-9	4-8-2	0-6-13	4-7-4	4-10-12	4-9-4	4-9-4	4-7-8	4-10-8	0-10-8

Scale = 1:71.2



	5-6-9	10-2-11	10-9-8	15-4-12	20-1-12	20-3-8	29-10-0	39-4-0
	5-6-9	4-8-2	0-6-13	4-7-4	4-9-0	0-1-12	9-6-8	9-6-0
Plate Offsets (X,Y)--	[2:0-4-1,0-0-0], [3:2-11-5,3-7-3], [3:1-8-11,4-11-4], [4:0-3-7,0-2-0], [11:0-1-2,0-2-12], [13:Edge,0-5-8], [13:0-0-0,0-2-12], [21:0-3-4,0-1-10], [21:0-2-7,0-4-14]							

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 0.75	Vert(LL)	-0.19 14-15	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.38 14-15	>594	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	-0.03 13	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05 14	>999	240	Weight: 151 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 *Except*								
	2-21: 2x8 SP DSS, 11-13: 2x6 SP DSS								
REACTIONS.	(size) 21=0-3-8, 16=0-3-8, 13=0-3-8								
	Max Horz 21=101(LC 8)								
	Max Uplift 21=-147(LC 8), 16=-270(LC 9), 13=-185(LC 9)								
	Max Grav 21=872(LC 1), 16=1957(LC 1), 13=835(LC 22)								

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.								
TOP CHORD	2-3=-1099/178, 3-4=-777/164, 4-5=-678/175, 5-6=-344/170, 6-7=-344/170, 7-8=0/427, 8-9=-786/241, 9-10=-890/227, 10-11=-1196/317, 2-21=-778/176, 11-13=-743/228								
BOT CHORD	20-21=-182/881, 19-20=-182/881, 17-19=-69/640, 16-17=-375/54, 15-16=-1935/298, 7-15=-1147/217, 14-15=-89/417, 13-14=-228/1018								
WEBS	3-19=-332/141, 4-19=-105/362, 8-15=-1058/211, 8-14=0/505, 10-14=-268/170, 5-17=-449/62, 6-17=-332/140, 7-17=-104/1070								

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=147, 16=270, 13=185.
 - 8) N/A
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680356
400144	C7	Roof Special Girder	1	1		

Wheeler Lumber, Waverly, KS 66871

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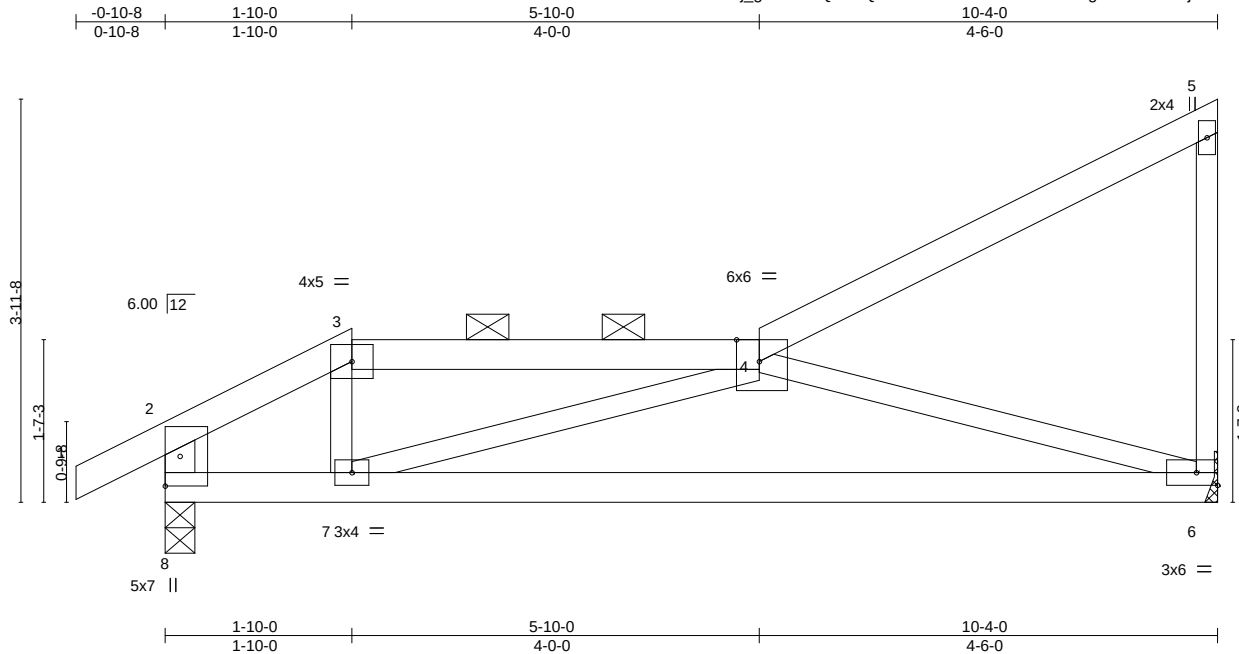


Plate Offsets (X,Y)-- [2:0-0-14,0-1-12], [4:0-2-11,Edge], [8:0-0-0,0-1-12]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.16	6-7	>768	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.33	6-7	>371	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.03	6-7	>999	240	Weight: 37 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 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.

REACTIONS.

(size) 6=Mechanical, 8=0-3-8
Max Horz 8=158(LC 5)
Max Uplift 6=-99(LC 8), 8=-108(LC 8)
Max Grav 6=450(LC 1), 8=527(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-647/38, 3-4=-505/56, 2-8=-490/56
BOT CHORD 7-8=-92/518, 6-7=-213/785
WEBS 3-7=0/302, 4-7=-295/203, 4-6=-800/261

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.
- 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 except (jt=lb) 8=108.
- 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) 107 lb down and 95 lb up at 1-10-0 on top chord, and 11 lb down and 4 lb up at 1-10-0 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, 2-3=-70, 3-4=-70, 4-5=-70, 6-8=-20



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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR
400144	C7	Roof Special Girder	1	1	I40680356
Job Reference (optional)					

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=3(F)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680357
400144	C8	Roof Special	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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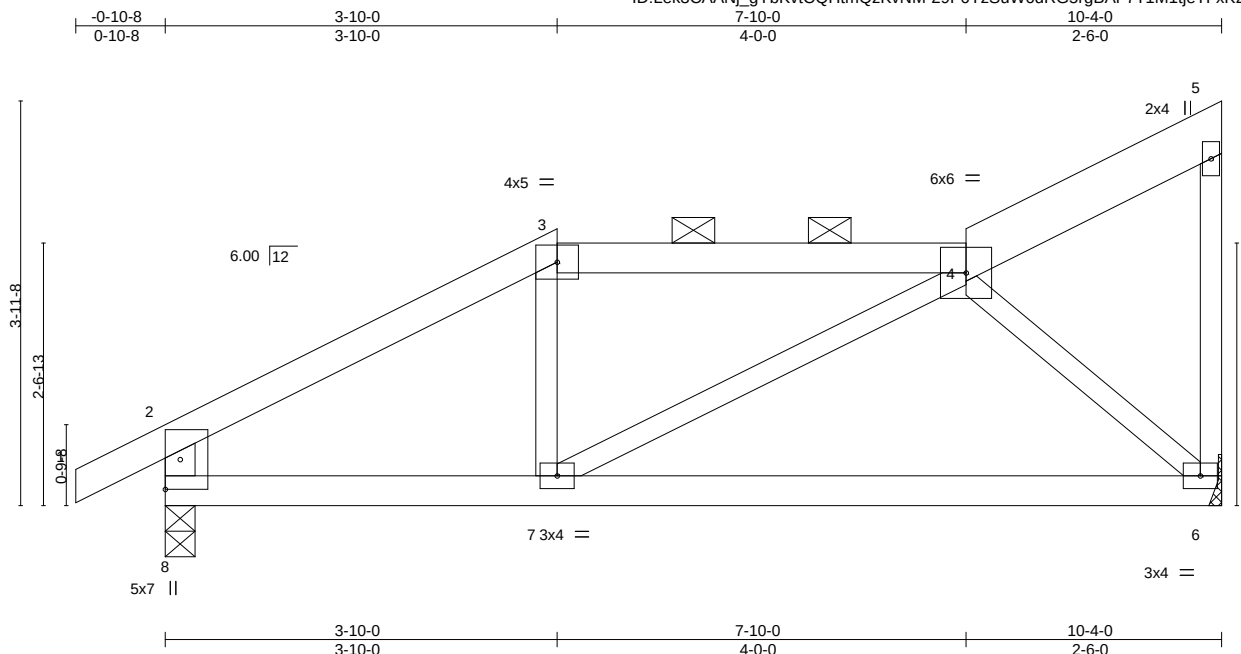


Plate Offsets (X,Y)-- [2:0-0-14,0-1-12], [8:0-0-0,0-1-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.06 6-7 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.14 6-7 >887 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01 6 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.02 6-7 >999 240	Weight: 39 lb	FT = 10%

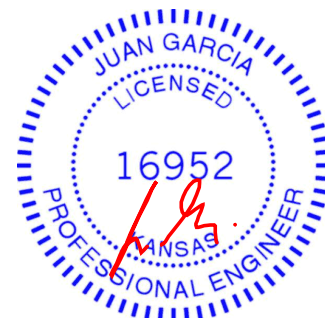
LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
4-5: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-8: 2x4 SPF No.2

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.

REACTIONS. (size) 6=Mechanical, 8=0-3-8
Max Horz 8=154(LC 5)
Max Uplift 6=-96(LC 8), 8=-97(LC 8)
Max Grav 6=450(LC 1), 8=529(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-599/82, 3-4=-470/104, 2-8=-477/109
BOT CHORD 7-8=-79/469, 6-7=-74/354
WEBS 4-6=-478/152

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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, 8.
 - 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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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	140680358
400144	C9	Half Hip	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-WMpVmJSWHQlluFQsItmM?Fu7T7ya_FdCvFDuPGzZOOK

4-7-8 9-1-11 16-0-0 16-10-8
4-7-8 4-6-3 6-10-5 0-10-8

Scale = 1:32.3

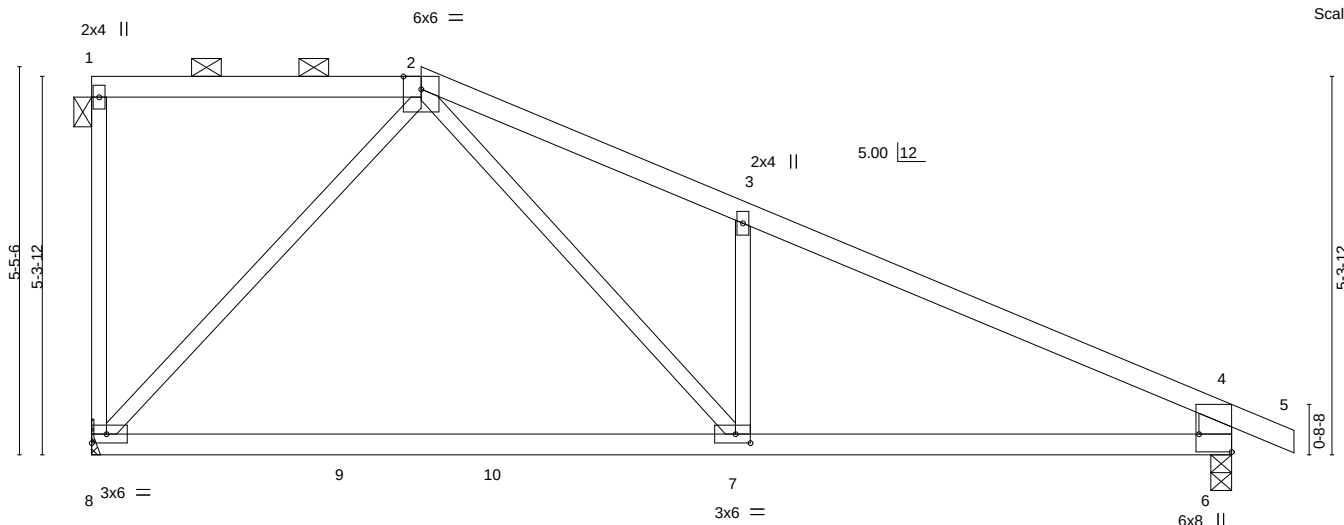


Plate Offsets (X,Y)--	[4:0-1-2,0-2-12], [6:Edge,0-5-8], [6:0-0-0,0-2-12], [7:0-2-8,0-1-8]
-----------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.69	Vert(LL)	-0.25	7-8	>758	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.44	7-8	>432	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.03	7-8	>999	240	Weight: 56 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
4-6: 2x6 SP DSS

BRACING-

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

REACTIONS.

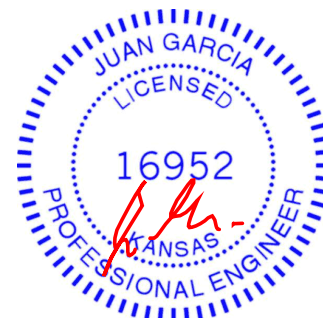
(size) 8=Mechanical, 6=0-3-8
Max Horz 8=-225(LC 4)
Max Uplift 8=-112(LC 4), 6=-129(LC 9)
Max Grav 8=745(LC 2), 6=799(LC 2)

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

TOP CHORD 2-3=-1091/247, 3-4=-1135/141, 4-6=-720/165
BOT CHORD 7-8=0/465, 6-7=-53/965
WEBS 2-8=-633/136, 2-7=-165/797, 3-7=-356/226

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, 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) 8=112, 6=129.
- 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.



March 19,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680359
400144	D1	GABLE	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:01:46 2020 Page 1

ID:Lek3CAANj_gYbKvCQHtmQzKvNM- YNtzt82kt9VP?2JbHbYSRPTXNOjrTL8vyRxizZOOJ

0-10-8 16-6-0 33-0-0 33-10-8
0-10-8 16-6-0 16-6-0 0-10-8

Scale = 1:59.6

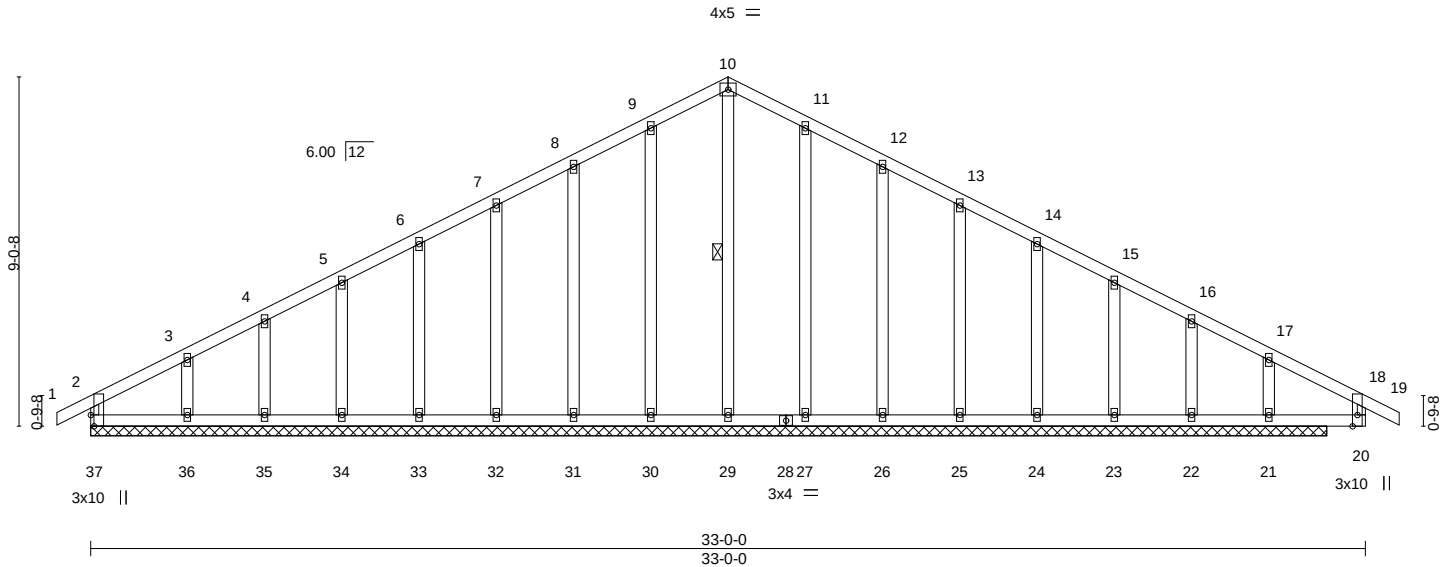


Plate Offsets (X,Y)--										[2:0-0-10,0-1-4], [18:0-0-10,0-1-4], [20:0-0-0,0-1-4], [37:0-3-8,Edge], [37:0-0-0,0-1-4]									
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL		1.15		TC 0.23		Vert(LL)		-0.01 18-19		n/r		120		MT20		197/144	
TCDL	10.0	Lumber DOL		1.15		BC 0.18		Vert(CT)		-0.02 18-19		n/r		120					
BCLL	0.0 *	Rep Stress Incr		YES		WB 0.17		Horz(CT)		-0.01 21		n/a		n/a					
BCDL	10.0	Code IRC2018/TPI2014				Matrix-R										Weight: 164 lb		FT = 10%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 10-29

REACTIONS.

All bearings 32-0-0.
(lb) - Max Horz 37=135(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 37, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21 except 36=120(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 37, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22 except 29=332(LC 18), 36=265(LC 1), 21=399(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=0/256, 7-8=0/265, 8-9=0/277, 9-10=0/277, 10-11=0/269, 11-12=0/255
WEBS 10-29=-292/0, 17-21=-251/98

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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 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) 37, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21 except (it=lb) 36=120.
- Non Standard bearing condition. Review required.
- 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.



March 19,2020

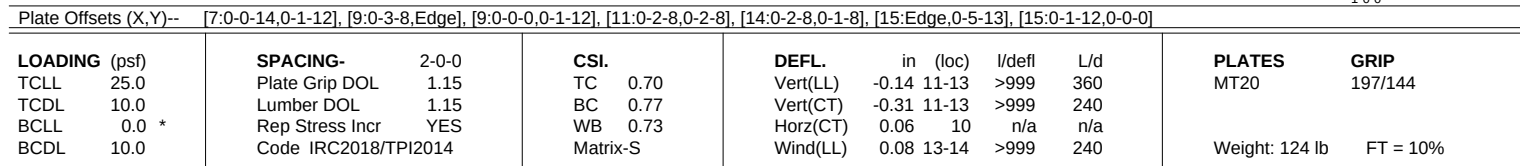
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

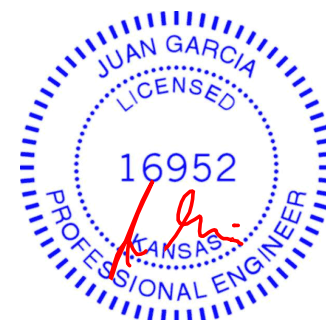
Wheeler Lumber, Waverly, KS 66871 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:01:50 2020 Page 1
ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-JdOp1Wf5yNa_0JpYQLXilc_48a3fWex2Xwf4UzZOOF
33-10-8
0-10-8 7-6-9 16-6-0 25-5-7 31-9-4 33-0-0
0-10-8 7-6-9 8-11-7 8-11-6 6-3-14 1-2-12 0-10-8
Scale = 1:61.1



REACTIONS. (size) 15=0-3-8, 10=0-5-8
 Max Horz 15=134(LC 12)
 Max Uplift 15=-203(LC 8), 10=-213(LC 9)
 Max Grav 15=1490(LC 1), 10=1596(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2348/300, 3-4=-1629/246, 4-5=-1628/254, 5-6=-2064/262, 2-15=-1418/241
BOT CHORD 14-15=-257/605, 13-14=-308/2004, 11-13=-135/1775
WEBS 3-14=0/264, 3-13=-803/287, 4-13=-25/732, 5-13=-583/253, 6-11=-155/1734,
6-10=-1452/268, 2-14=-51/1403

- 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) except (jt=lb) 15=203, 10=213.
 - 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.



March 19, 2020



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	140680361
400144	D3	Roof Special	5	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQZKvNM-LWAm0MXHsGWRcAt068tmFV88LYxxOzn4HBgCcwzZOOE

-0-10-8	7-6-9	16-6-0	21-10-0	25-5-8	30-1-12	32-0-0
0-10-8	7-6-9	8-11-7	5-4-0	3-7-8	4-8-4	1-10-4

Scale = 1:66.1

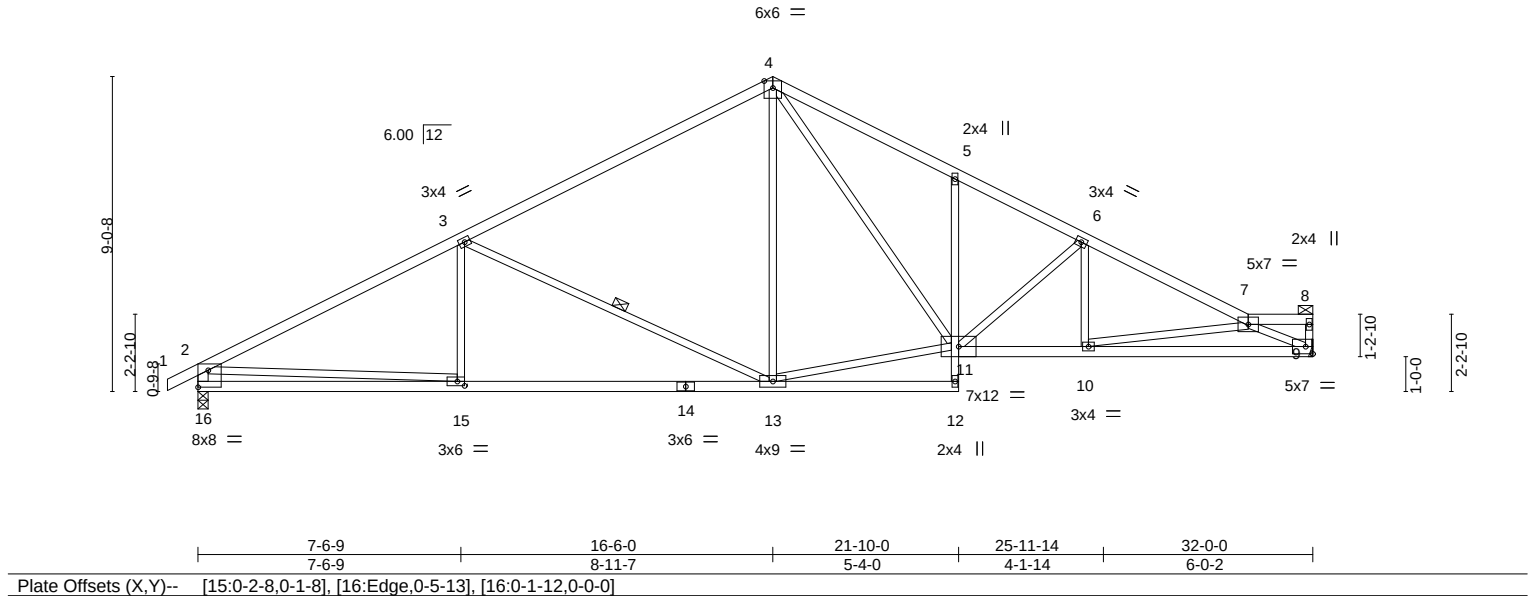


Plate Offsets (X,Y)--		[15:0-2-8,0-1-8], [16:Edge,0-5-13], [16:0-1-12,0-0-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.73	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(LL) -0.16 13-15 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.74	Vert(CT) -0.38 13-15 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.10 9 n/a n/a
			Wind(LL) 0.07 11 >999 240
			PLATES MT20
			GRIP 197/144
			Weight: 131 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	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.): 7-8.
1-4: 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt 3-13
5-12: 2x3 SPF No.2	
WEBS 2x3 SPF No.2 *Except*	
2-16: 2x4 SPF 2100F 1.8E	

REACTIONS.	(size) 9=Mechanical, 16=0-3-8
	Max Horz 16=134(LC 5)
	Max Uplift 9=-15(LC 9), 16=-29(LC 8)
	Max Grav 9=1428(LC 1), 16=1501(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2376/48, 3-4=-1642/71, 4-5=-2233/129, 5-6=-2229/52, 6-7=-2620/22, 2-16=-1430/66
BOT CHORD	15-16=-145/590, 13-15=-74/2031, 5-11=-318/107, 10-11=0/2303, 9-10=-71/2515
WEBS	3-15=0/275, 3-13=-811/135, 4-13=0/375, 11-13=0/1282, 4-11=-104/1073, 6-11=-486/44, 6-10=0/261, 7-9=-2773/102, 2-15=0/1445

- 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) 9, 16.
 - 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.



March 19,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680362
400144	D4	Common	2	1		

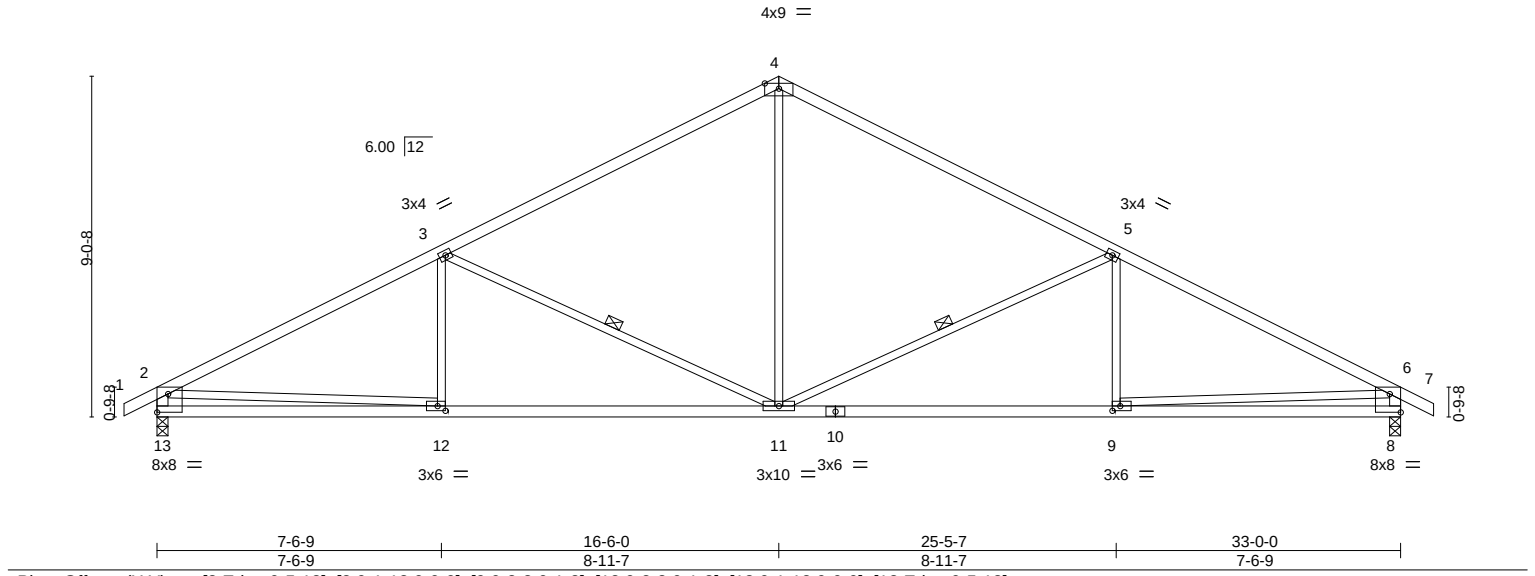
Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:01:52 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-pik8EiYvdaeIDKSCfrO?njhJQyGV7QCEW/P19MzZOOM

0-10-8 7-6-9 16-6-0 25-5-7 33-0-0 33-10-8
0-10-8 7-6-9 8-11-7 8-11-7 7-6-9 0-10-8

Scale = 1:61.1



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 0.71	Vert(LL)	-0.13 11-12	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.31 11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.08 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.08 11-12	>999	240	Weight: 124 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E	TOP CHORD Structural wood sheathing directly applied or 2-2-0 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 *Except*	WEBS 1 Row at midpt 5-11, 3-11
2-13,6-8: 2x4 SPF 2100F 1.8E	

REACTIONS. (size) 13=0-3-8, 8=0-3-8
Max Horz 13=134(LC 8)
Max Uplift 13=206(LC 8), 8=206(LC 9)
Max Grav 13=1543(LC 1), 8=1543(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2450/305, 3-4=-1739/261, 4-5=-1739/261, 5-6=-2450/305, 2-13=-1470/243, 6-8=-1470/243
BOT CHORD 12-13=-258/617, 11-12=-313/2095, 9-11=-179/2095, 8-9=-136/617
WEBS 4-11=-32/832, 5-11=-798/286, 5-9=0/261, 3-11=-798/286, 3-12=0/261, 2-12=-55/1482, 6-9=-43/1482

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) except (jt=lb) 13=206, 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.



March 19, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	140680363
400144	D5	Common	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:01:53 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-HuIWR2ZXOtm9rU1ODZvEKwDU5LcjstNIV9JhozZOOc

-0-10-8	7-6-9	16-6-0	25-5-7	33-0-0
0-10-8	7-6-9	8-11-7	8-11-7	7-6-9

Scale = 1:60.6

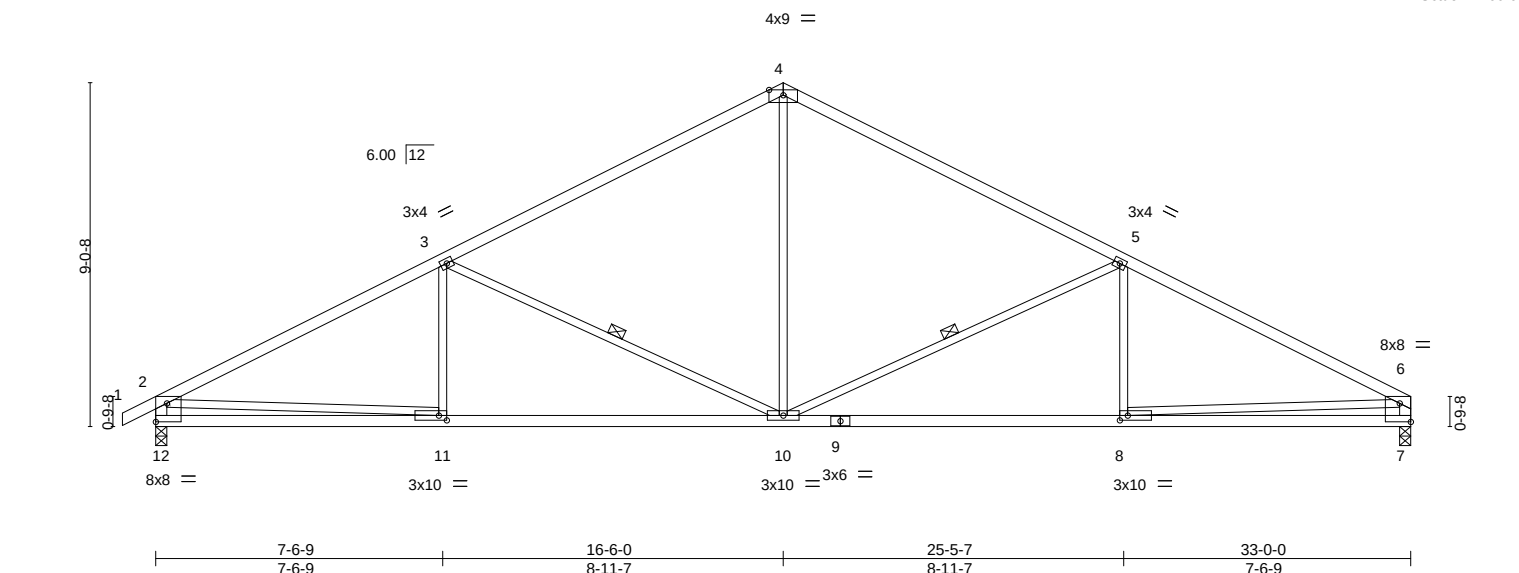


Plate Offsets (X,Y)--		[6:Edge,0-5-13], [7:0-1-12,0-0-0], [8:0-2-8,0-1-8], [11:0-2-8,0-1-8], [12:Edge,0-5-13], [12:0-1-12,0-0-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.72	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(LL) -0.13 8-10 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.74	Vert(CT) -0.32 8-10 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.07 7 n/a n/a
			Wind(LL) 0.08 10-11 >999 240
			PLATES MT20
			GRIP 197/144
			Weight: 123 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-12,6-7: 2x4 SPF 2100F 1.8E

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 5-10, 3-10

REACTIONS.

(size) 12=0-3-8, 7=0-3-8
 Max Horz 12=143(LC 8)
 Max Uplift 12=-206(LC 8), 7=-182(LC 9)
 Max Grav 12=1544(LC 1), 7=1471(LC 1)

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

TOP CHORD 2-3=-2452/305, 3-4=-1741/261, 4-5=-1743/261, 5-6=-2455/306, 2-12=-1471/243, 6-7=-1397/219
 BOT CHORD 11-12=-266/617, 10-11=-322/2098, 8-10=-200/2108, 7-8=-88/479
 WEBS 4-10=-34/837, 5-10=-810/290, 5-8=0/255, 3-10=-798/286, 3-11=0/261, 2-11=-56/1485, 6-8=-112/1634

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) except (jt=lb) 12=206, 7=182.
- 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.



March 19,2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680364
400144	D6	Roof Special	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

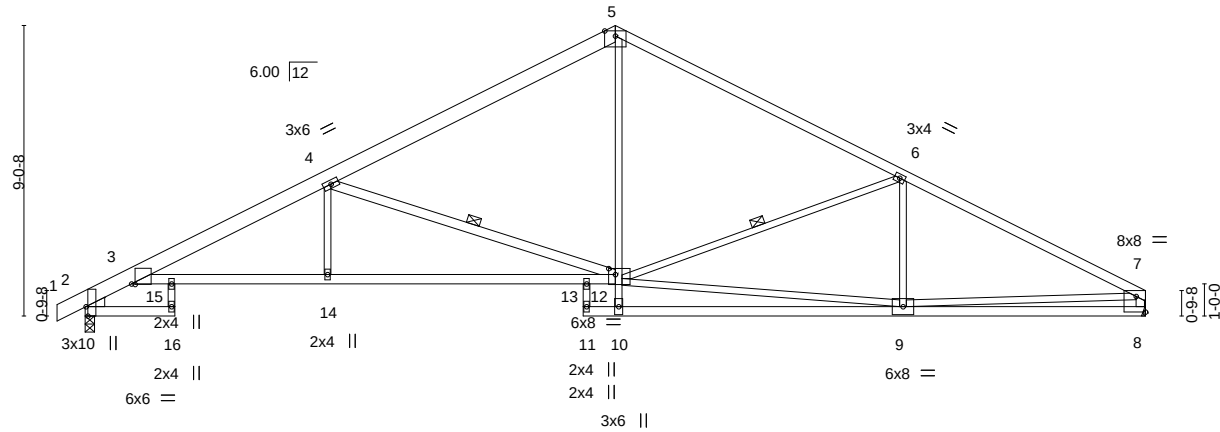
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:01:54 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-I5sueOZ99Bu0TecbnGQTt8mf0lzUbKwXz9usDFzZOOB

0-10-8	2-9-8	7-6-8	15-6-0	16-6-0	25-5-7	33-0-0
0-10-8	2-9-8	4-9-1	7-11-8	1-0-0	8-11-7	7-6-9

6x8 =

Scale = 1:71.7



2-9-8	7-6-8	15-6-0	16-6-0	25-5-7	33-0-0
2-9-8	4-9-1	7-11-8	1-0-0	8-11-7	7-6-9

Plate Offsets (X,Y)-- [2:0-0-1,0-0-2], [2:0-0-2,0-4-15], [2:0-3-8,Edge], [3:0-1-5,0-0-3], [7:Edge,0-5-13], [8:0-1-12,0-0-0], [12:0-2-8,0-2-4]									
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	0.70	Vert(LL)	-0.26 14-15 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.48 14-15 >826 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.31 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.15 14-15 >999 240	Weight: 153 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E *Except*
5-7: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
3-12: 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
4-12,7-8: 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

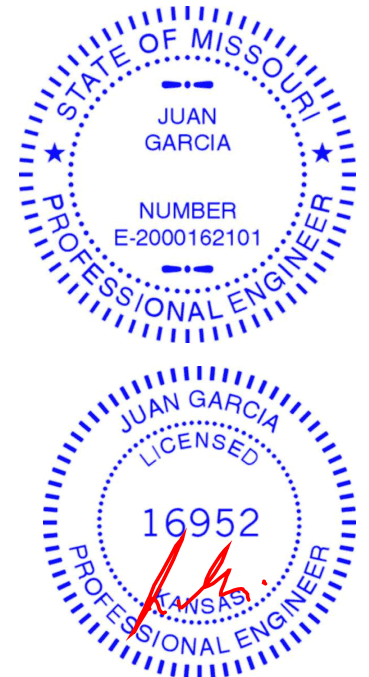
(size) 2=0-3-8, 8=Mechanical
Max Horz 2=111(LC 7)
Max Uplift 2=-28(LC 8), 8=-17(LC 9)
Max Grav 2=1544(LC 1), 8=1471(LC 1)

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

TOP CHORD 2-3=-921/47, 3-4=-3212/68, 4-5=-1969/55, 5-6=-1947/64, 6-7=-2455/47, 7-8=-1396/55
BOT CHORD 3-15=-80/2904, 14-15=-80/2904, 13-14=-80/2904, 12-13=-80/2904, 8-9=-24/474
WEBS 11-13=-270/0, 4-14=0/375, 4-12=-1368/169, 10-12=0/499, 5-12=0/1050, 6-12=-622/149, 7-9=0/1638, 9-12=0/2070

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) 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) 2, 8.
- 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.



March 19,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680365
400144	D7	Roof Special	1	1		

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-DHQSksaowV0t4oBnL_xiPLJqh9GHKjFgCpeQlhZOOA

-0-10-8	2-9-8	7-6-9	16-6-0	18-0-0	20-4-0	25-5-8	33-0-0
0-10-8	2-9-8	4-9-2	8-11-7	1-6-0	2-4-0	5-1-8	7-6-9

Scale = 1:59.9

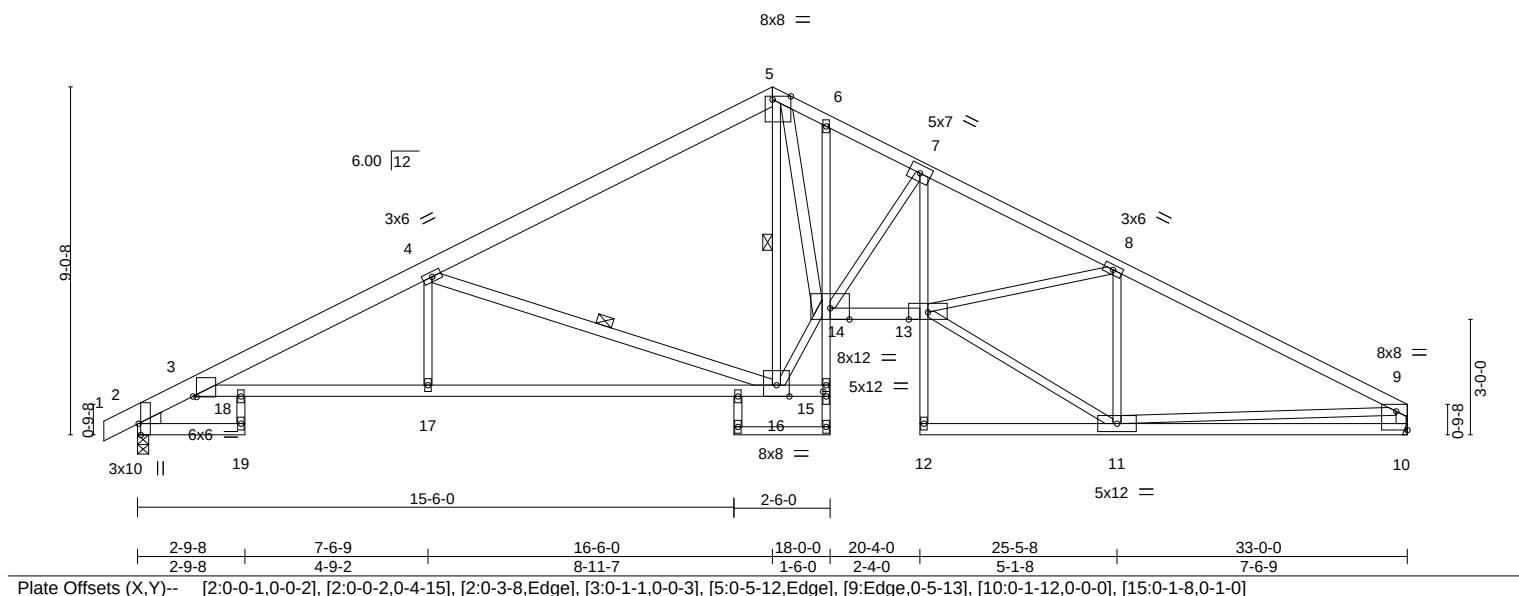


Plate Offsets (X,Y)--		[2:0-0-1,0-0-2], [2:0-0-2,0-4-15], [2:0-3-8,Edge], [3:0-1-1,0-0-3], [5:0-5-12,Edge], [9:Edge,0-5-13], [10:0-1-12,0-0-0], [15:0-1-8,0-1-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.71	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(LL) -0.32 13-14 >999 360
BCLL 0.0 *	Rep Stress Incr YES	WB 0.96	Vert(CT) -0.58 13-14 >678 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.54 10 n/a n/a
			Wind(LL) 0.16 17-18 >999 240
			PLATES MT20
			GRIP 197/144
			Weight: 170 lb FT = 10%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E *Except*
5-9: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
3-15: 2x4 SPF 2100F 1.8E, 6-15,7-12,20-21: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-16,5-14: 2x4 SPF No.2, 9-10: 2x4 SPF 2100F 1.8E
WEDGE
Left: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 14-15.
10-0-0 oc bracing: 15-16
WEBS 1 Row at midpt 4-16, 5-16

REACTIONS.

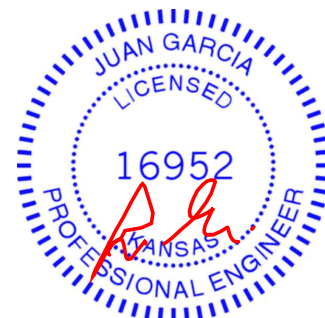
(size) 2=0-3-8, 10=Mechanical
Max Horz 2=112(LC 7)
Max Uplift 2=-28(LC 8), 10=-17(LC 9)
Max Grav 2=1544(LC 1), 10=1471(LC 1)

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

TOP CHORD 2-3=-921/47, 3-4=-3222/68, 4-5=-1957/51, 5-6=-2537/30, 6-7=-2682/32, 7-8=-3578/0,
8-9=-2411/39, 9-10=-1392/58
BOT CHORD 3-18=-80/2917, 17-18=-80/2917, 16-17=-80/2917, 13-14=0/3119, 7-13=0/1255,
10-11=-42/568
WEBS 4-17=0/373, 4-16=-1399/168, 5-16=-1676/0, 14-16=0/2799, 5-14=0/3234, 7-14=-1377/42,
11-13=0/2397, 8-13=0/1083, 8-11=-1252/65, 9-11=0/1492

NOTES-

- 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; 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
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a 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) 2, 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.



March 19,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	140680366
400144	D8	Roof Special	1	1		

Wheeler Lumber, Waverly, KS 66871

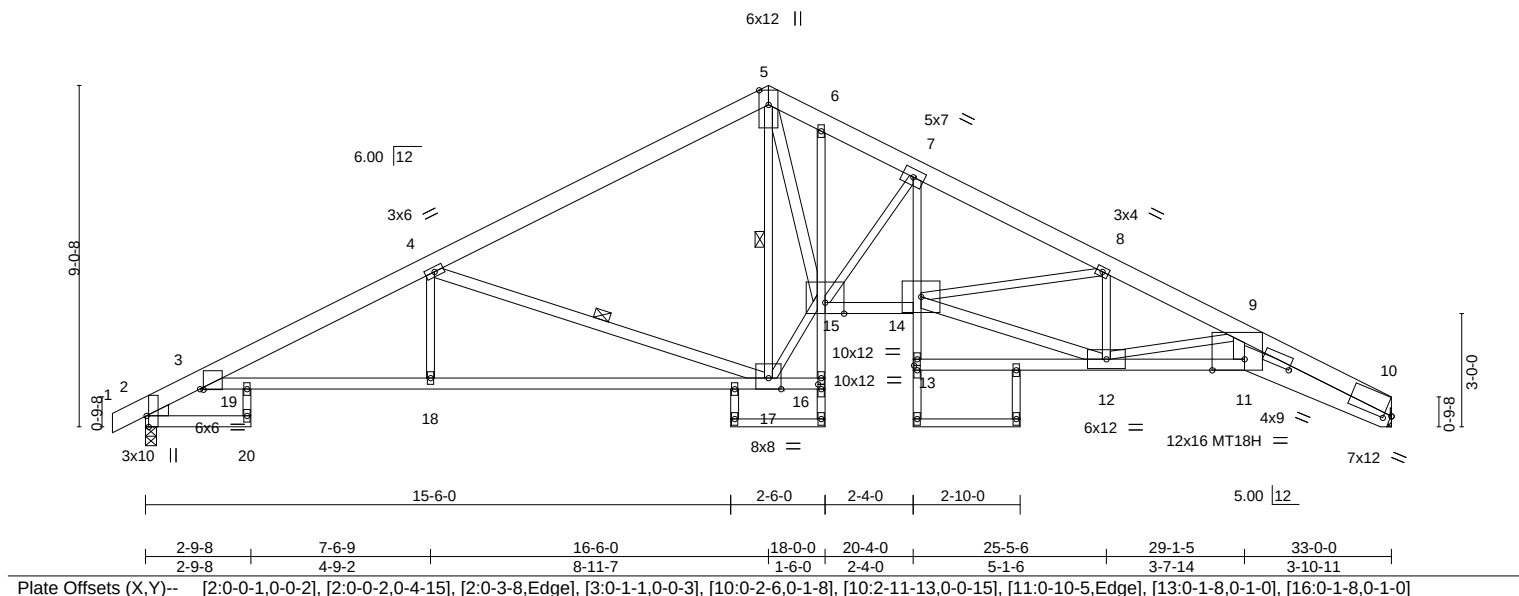
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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-hT_f34bQho8kixmzuhSxyZryJZcv3BlqRTNzI7zZOO9

Job Reference (optional)

0-10-8	2-9-8	7-6-9	16-6-0	18-0-0	20-4-0	25-5-6	29-1-5	33-0-0
0-10-8	2-9-8	4-9-2	8-11-7	1-6-0	2-4-0	5-1-6	3-7-14	3-10-11

Scale = 1:61.0



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 0.85	Vert(LL)	-0.43 14-15	>906	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.78 14-15	>505	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.73 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.19 14-15	>999	240	Weight: 191 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E *Except*
5-10: 2x6 SPF No.2
BOT CHORD 2x3 SPF No.2 *Except*
2-20,14-15: 2x4 SPF No.2, 3-16,11-13: 2x4 SPF 2100F 1.8E
10-11: 2x8 SP DSS
WEBS 2x3 SPF No.2 *Except*
4-17,5-15,12-14,9-11: 2x4 SPF No.2

WEDGE
Left: 2x4 SPF No.2

REACTIONS. (size) 10=Mechanical, 2=0-3-8
Max Horz 2=100(LC 5)
Max Uplift 10=-18(LC 9), 2=-28(LC 8)
Max Grav 10=1475(LC 1), 2=1548(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-923/60, 3-4=-3228/66, 4-5=-1984/49, 5-6=-2530/25, 6-7=-2729/32, 7-8=-3730/0,
8-9=-3644/19, 9-10=-6599/17
BOT CHORD 3-19=-77/2921, 18-19=-77/2921, 17-18=-77/2921, 6-15=-33/260, 14-15=0/3261,
7-14=0/1389, 11-12=0/5150, 10-11=0/5964
WEBS 4-18=0/372, 4-17=-1371/163, 5-17=-1601/0, 15-17=0/2752, 5-15=0/3070, 7-15=-1533/40,
12-14=0/3427, 8-12=-546/33, 9-12=-1901/63, 9-11=0/2284

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
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a 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) 10, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 19,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	140680367
400144	D9	Roof Special	2	1		

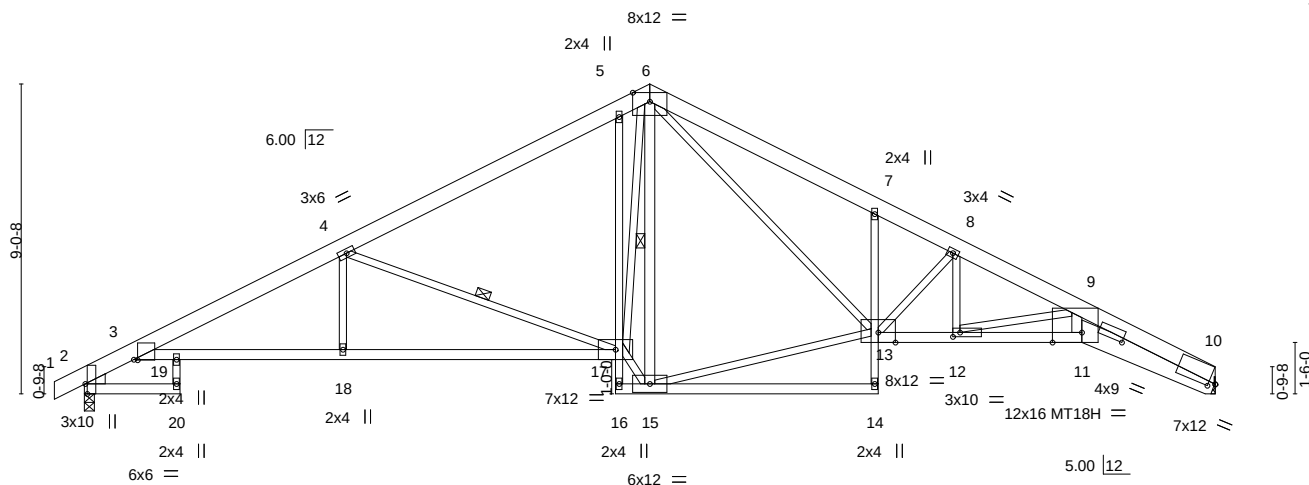
Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-es6PumcgDPOSxFwM06VP1_xlkMILX4M6uns4M0zZOO7

0-10-8	2-9-8	7-6-8	15-6-0	16-6-0	23-2-0	25-5-6	29-1-5	33-0-0
0-10-8	2-9-8	4-9-1	7-11-8	1-0-0	6-8-0	2-3-6	3-7-15	3-10-11

Scale = 1:67.2



2-9-8	7-6-8	15-6-0	16-6-0	23-2-0	25-5-6	29-1-5	33-0-0
2-9-8	4-9-1	7-11-8	1-0-0	6-8-0	2-3-6	3-7-15	3-10-11

Plate Offsets (X,Y)-- [2:0-0-1,0-0-2], [2:0-0-2,0-4-15], [2:0-3-8,Edge], [3:0-1-5,0-0-3], [10:0-2-6,0-1-8], [10:2-11-13,0-0-15], [11:0-10-5,Edge], [12:0-2-8,0-1-8]

LOADING (psf)		SPACING-2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.37	13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.69	17-18	>567	240	MT18H	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.63	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.24	17-18	>999	240	Weight: 186 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E *Except*
6-10: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-17,11-13: 2x4 SPF 2100F 1.8E, 5-16,7-14: 2x3 SPF No.2
10-11: 2x8 SP DSS
WEBS 2x3 SPF No.2 *Except*
6-15,9-11: 2x4 SPF No.2

WEDGE
Left: 2x4 SPF No.2

REACTIONS. (size) 10=Mechanical, 2=0-3-8
Max Horz 2=156(LC 8)
Max Uplift 10=-183(LC 9), 2=-207(LC 8)
Max Grav 10=1475(LC 1), 2=1548(LC 1)

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

TOP CHORD 2-3=-924/186, 3-4=-3234/415, 4-5=-2028/259, 5-6=-1698/340, 6-7=-3000/485,
7-8=-3011/359, 8-9=-3647/397, 9-10=-6584/709
BOT CHORD 3-19=-437/2923, 18-19=-437/2923, 17-18=-437/2923, 5-17=-37/316, 12-13=-223/3312,
11-12=-520/5138, 10-11=-599/5949
WEBS 4-18=0/385, 4-17=-1348/356, 15-17=-17/2030, 6-17=-322/1752, 6-15=-1551/133,
13-15=-78/1413, 6-13=-321/1732, 8-13=-1021/133, 8-12=-37/576, 9-12=-1886/306,
9-11=-176/2273

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
- 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=183, 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.



March 19,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	140680369
400144	D11	GABLE	1	1		

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-P73?bhW1KfjMtkd_jqlA43rlkKqw3roqtB5Y1zZOOG

Job Reference (optional)

9-10-8 16-6-0 18-1-12 23-2-0 26-3-12 29-5-8 33-0-0 33-10-8
0-10-8 16-6-0 1-7-12 5-0-4 3-1-12 3-1-12 3-6-8 0-10-8

Scale = 1:61.1

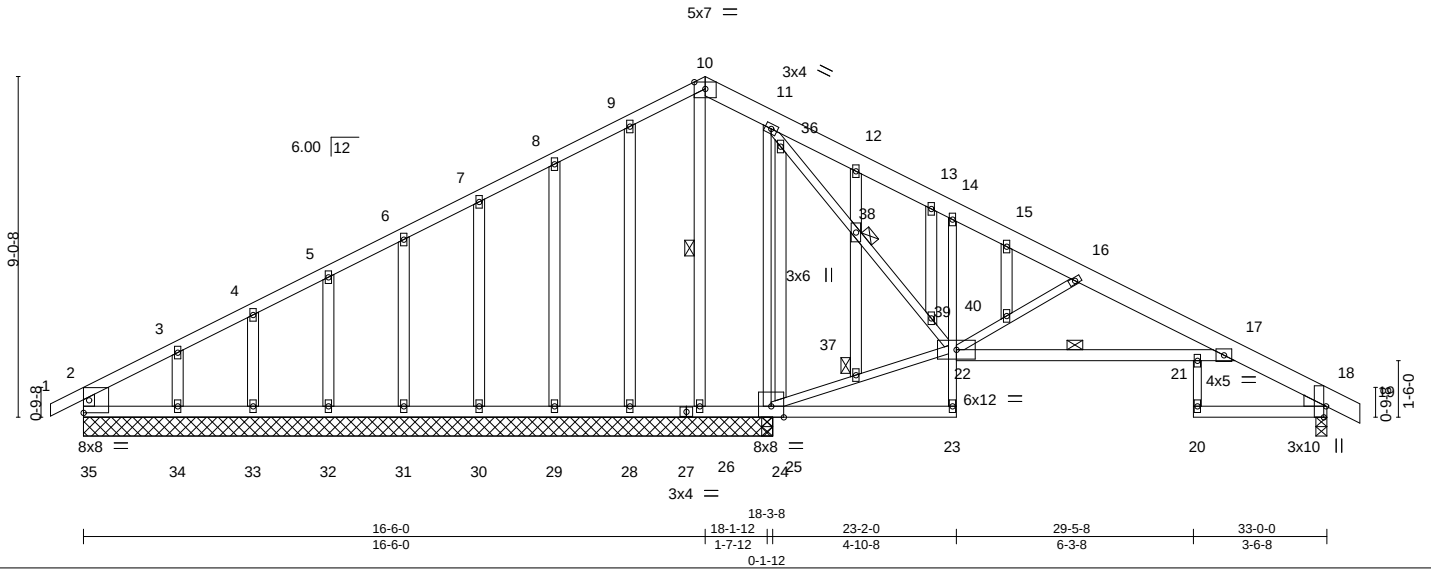


Plate Offsets (X,Y)-- [2:0-1-12,0-0-14], [18:0-3-8,Edge], [18:0-0-2,0-4-15], [18:0-0-1,0-0-2], [35:0-1-12,0-0-0]

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 0.55	Vert(LL)	-0.11 21-22	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.25 21-22	>691	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.08 18	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07 21-22	>999	240	Weight: 187 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
10-19: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
14-23: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-35: 2x4 SPF 2100F 1.8E
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 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 22-23,18-20.
6-0-0 oc bracing: 21-22
WEBS 1 Row at midpt 10-26
JOINTS 1 Brace at Jt(s): 37, 38

REACTIONS.

All bearings 18-3-8 except (jt=length) 18=0-3-8, 25=0-3-8.
(lb) - Max Horz 35=-148(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 18, 28, 29, 30, 31, 32, 33 except
35=-435(LC 22), 24=-215(LC 9), 34=-127(LC 8), 25=-321(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 35, 28, 29, 30, 31, 32, 33 except 18=371(LC 1), 24=1153(LC 22), 34=450(LC 1), 26=634(LC 1)

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

TOP CHORD 2-3=-173/779, 3-4=-105/709, 4-5=-65/730, 5-6=-18/725, 6-7=0/726, 7-8=0/725, 8-9=0/731, 9-10=0/699, 10-11=0/660, 11-12=0/472, 12-13=0/463, 13-14=0/376, 14-15=-0/414, 15-16=-15/375, 2-35=-41/378
BOT CHORD 34-35=-622/251, 33-34=-622/251, 32-33=-622/251, 31-32=-622/251, 30-31=-622/251, 29-30=-622/251, 28-29=-622/251, 26-28=-622/251, 25-26=-613/252, 24-25=-613/252, 11-24=-533/160, 24-37=-658/291, 22-37=-622/275, 11-36=-100/434, 36-38=-119/453, 38-39=-109/429, 22-39=-121/473, 22-40=-524/175, 16-40=-515/170, 3-34=-298/126, 10-26=-590/0

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.
- All plates are 2x4 MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 2 = 2%
- 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.

Continued on page 2



March 19,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680369
400144	D11	GABLE	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:01:49 2020 Page 2
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NOTES-

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 28, 29, 30, 31, 32, 33 except (jt=lb) 35=435, 24=215, 34=127, 25=321.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680370
400144	E1	Roof Special	1	1		

Wheeler Lumber, Waverly, KS 66871

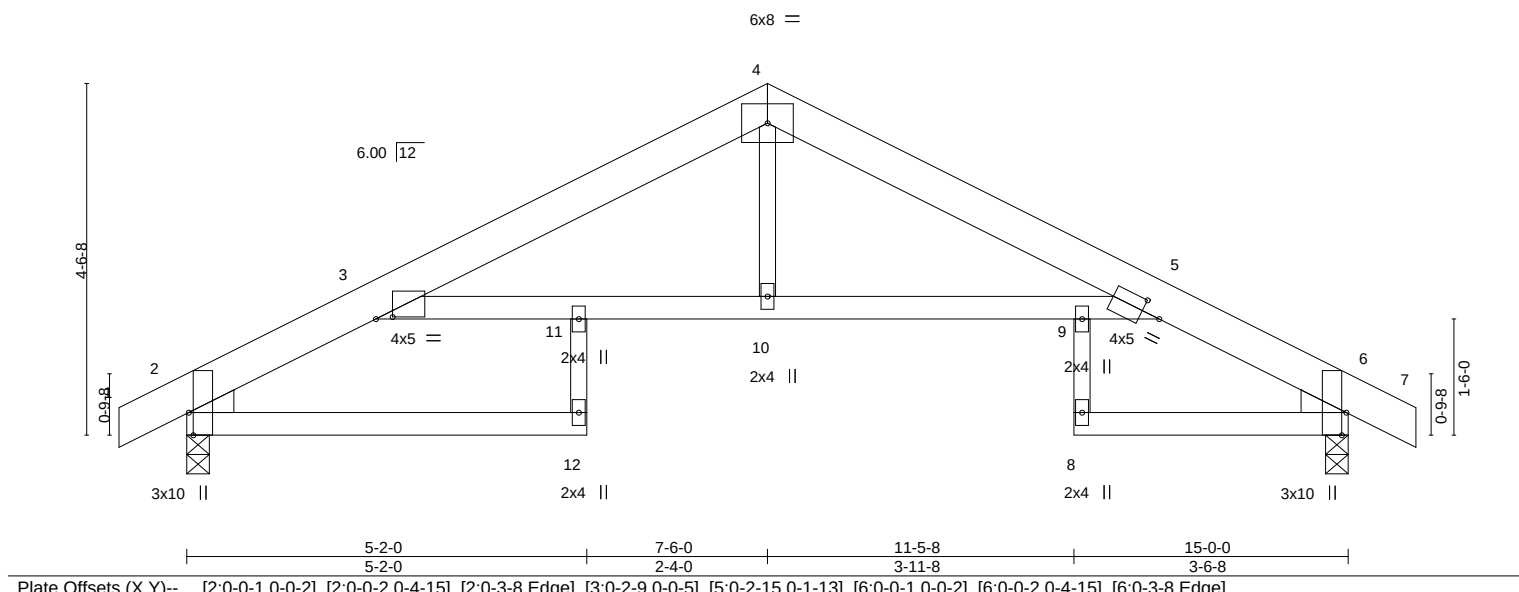
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:01:58 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-es6PUmcgDPOSxFwM06VP1_xL7MlbXHG6uns4M0ZZOO7

Job Reference (optional)

-0-10-8	5-2-0	7-6-0	11-5-8	15-0-0	15-10-8
0-10-8	5-2-0	2-4-0	3-11-8	3-6-8	0-10-8

Scale = 1:29.8



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.70	in (loc)	l/defl	L/d	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(LL)	-0.28 9-10	>629 360			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Vert(CT)	-0.51 9-10	>347 240			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Horz(CT)	0.55 6	n/a n/a			
						Wind(LL)	0.21 3-11	>857 240	Weight: 61 lb	FT = 10%	

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.4E

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-7-1 oc purlins.

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

10-0-0 oc bracing: 9-10

REACTIONS.

(size) 2=0-3-8, 6=0-3-8

Max Horz 2=74(LC 8)

Max Uplift 2=-105(LC 8), 6=-105(LC 9)

Max Grav 2=733(LC 1), 6=733(LC 1)

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

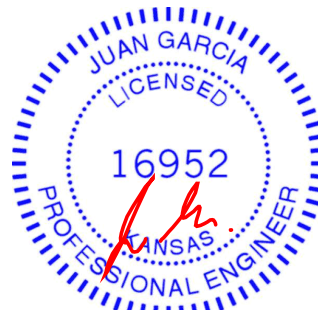
TOP CHORD 2-3=-348/116, 3-4=-1226/104, 4-5=-1224/140, 5-6=-363/76

BOT CHORD 3-11=-53/1119, 10-11=-53/1119, 9-10=-53/1119, 5-9=-53/1119

WEBS 4-10=0/354

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) except (it=lb) 2=105, 6=105.
- 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.



March 19,2020

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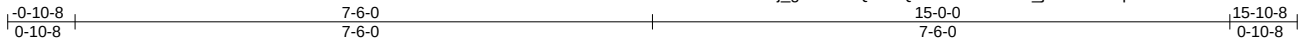
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680371
400144	E2	Common Supported Gable	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-62fni6dl_jWJZPVYap0eaBTflmtGlcG7RcdvSzZOO6



Scale = 1:29.9

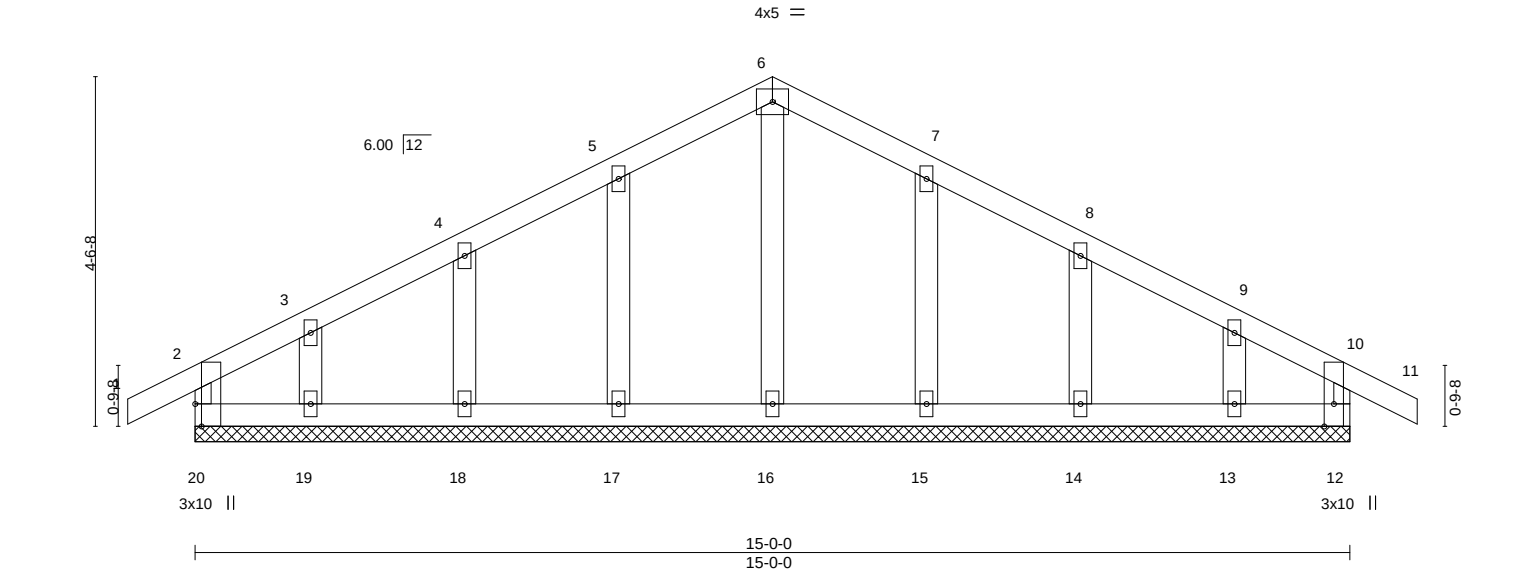


Plate Offsets (X,Y)-- [2:0-0-10,0-1-4], [10:0-0-10,0-1-4], [12:0-0-0,0-1-4], [20:0-3-8,Edge], [20:0-0-0,0-1-4]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	11	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 57 lb	FT = 10%

LUMBER-

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

REACTIONS.

All bearings 15-0-0.
(lb) - Max Horz 20=74(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13
Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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) 20, 12, 17, 18, 19, 15, 14, 13.
- 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.



March 19,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680372
400144	G1	Common Supported Gable	2	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAAnj_gYbKvtCQHtmQzKvNM-aEDAvRewl1e9BZ3k7XXt6P0qUAB5?C3PM5LARuzZ005

-0-10-8	5-11-0	11-10-0	12-8-8
0-10-8	5-11-0	5-11-0	0-10-8

Scale = 1:24.5

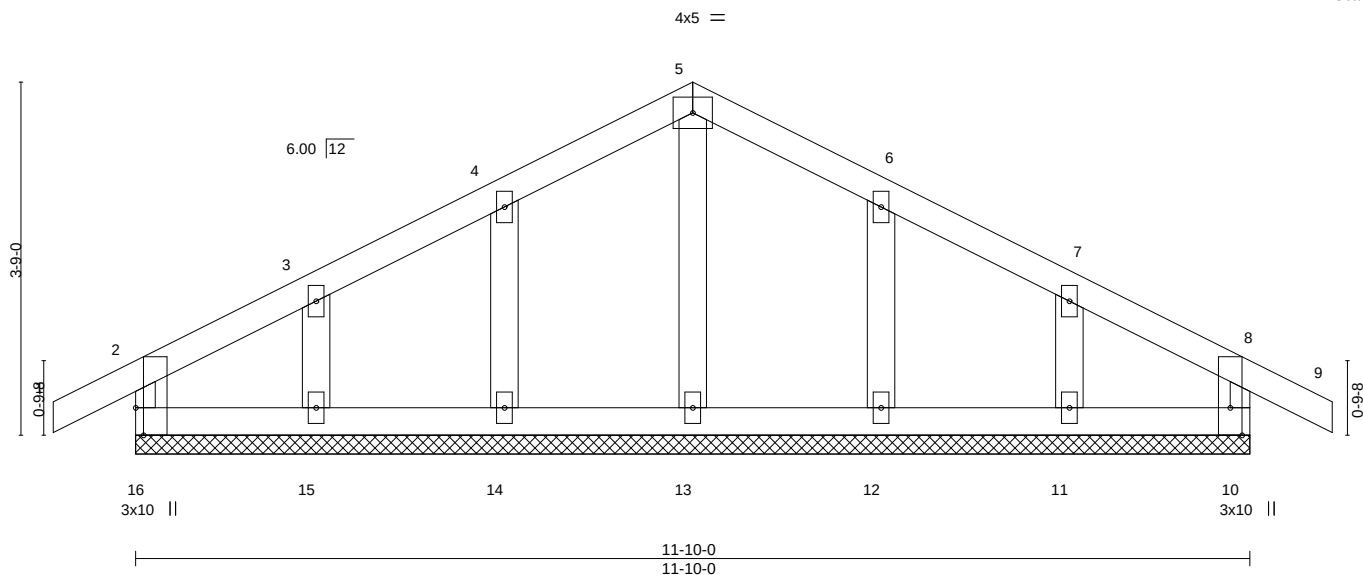


Plate Offsets (X,Y)-- [2:0-0-10,0-1-4], [8:0-0-10,0-1-4], [10:0-0-0,0-1-4], [16:0-3-8,Edge], [16:0-0-0,0-1-4]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	9	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 43 lb	FT = 10%

LUMBER-

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

REACTIONS.

All bearings 11-10-0.
(lb) - Max Horz 16=-64(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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) 16, 10, 14, 15, 12, 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 19,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680373
400144	G2	Common Girder	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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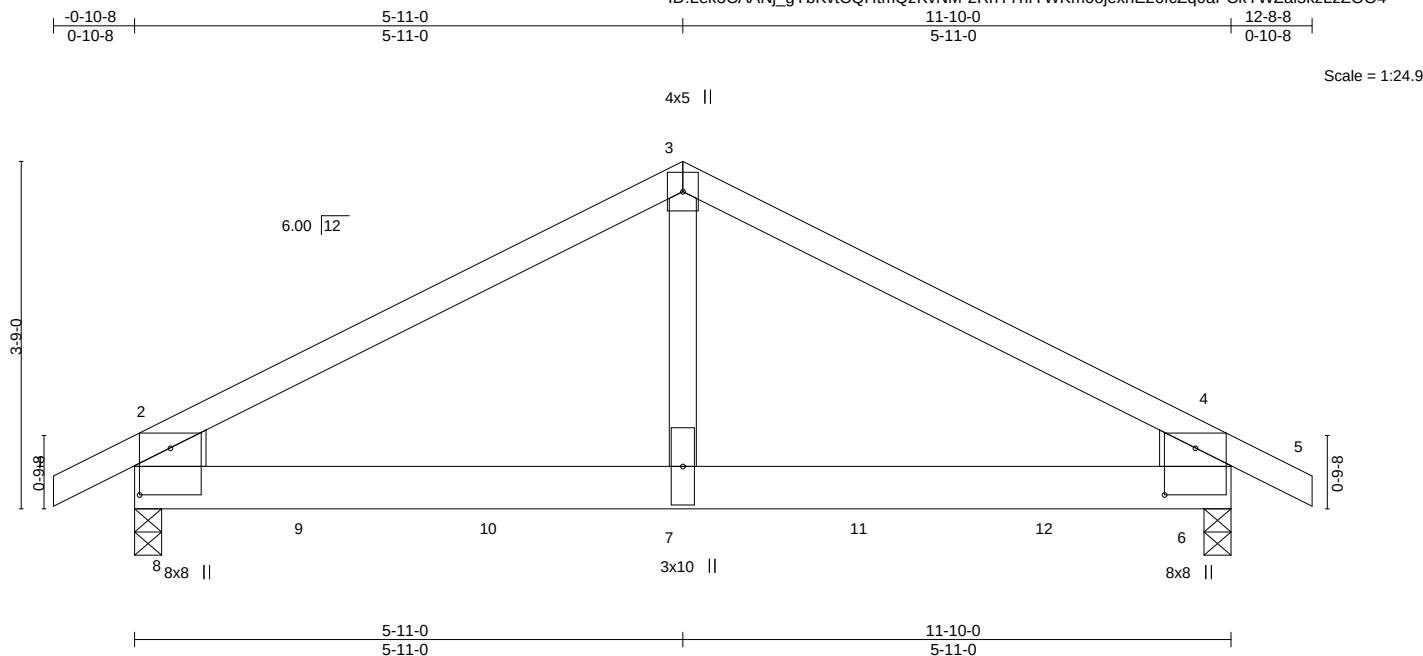


Plate Offsets (X,Y)--		[6:0-6-1,0-4-0], [8:0-6-1,0-4-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.78	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(LL) -0.07 7-8 >999 360
BCLL 0.0 *	Rep Stress Incr NO	WB 0.46	Vert(CT) -0.13 7-8 >999 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Horz(CT) 0.02 6 n/a n/a
			Wind(LL) 0.04 7-8 >999 240
			PLATES MT20
			GRIP 197/144
			Weight: 104 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x10 SP 2400F 2.0E *Except*
 3-7: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 8=0-3-8, 6=0-3-8
 Max Horz 8=-66(LC 6)
 Max Uplift 8=-159(LC 8), 6=-159(LC 9)
 Max Grav 8=4105(LC 1), 6=4105(LC 1)

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

TOP CHORD 2-3=-4575/166, 3-4=-4575/166, 2-8=-2362/177, 4-6=-2362/177
 BOT CHORD 7-8=-80/3978, 6-7=-80/3978
 WEBS 3-7=-27/3780

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, 2x10 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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
- 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) 8=159, 6=159.
- 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) 1408 lb down and 35 lb up at 1-11-0, 1408 lb down and 35 lb up at 3-11-0, 1408 lb down and 35 lb up at 5-11-0, and 1408 lb down and 35 lb up at 7-11-0, and 1408 lb down and 35 lb up at 9-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

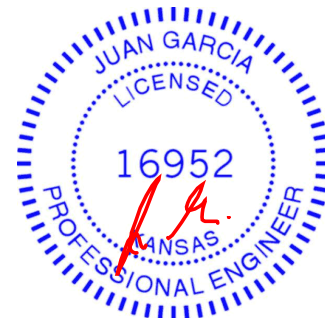
LOAD CASE(S) Standard

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Continued on page 2

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR
400144	G2	Common Girder	1	2	I40680373
					Job Reference (optional)

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: 7=-1408(B) 9=-1408(B) 10=-1408(B) 11=-1408(B) 12=-1408(B)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680374
400144	G3	COMMON	4	1		

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-WdLwK7gBGeutQsD7FyZLBq55M_p?T5pipPrHVnzZOO3

Job Reference (optional)

-0-10-8	5-11-0	11-10-0	12-8-8
0-10-8	5-11-0	5-11-0	0-10-8

Scale = 1:24.9

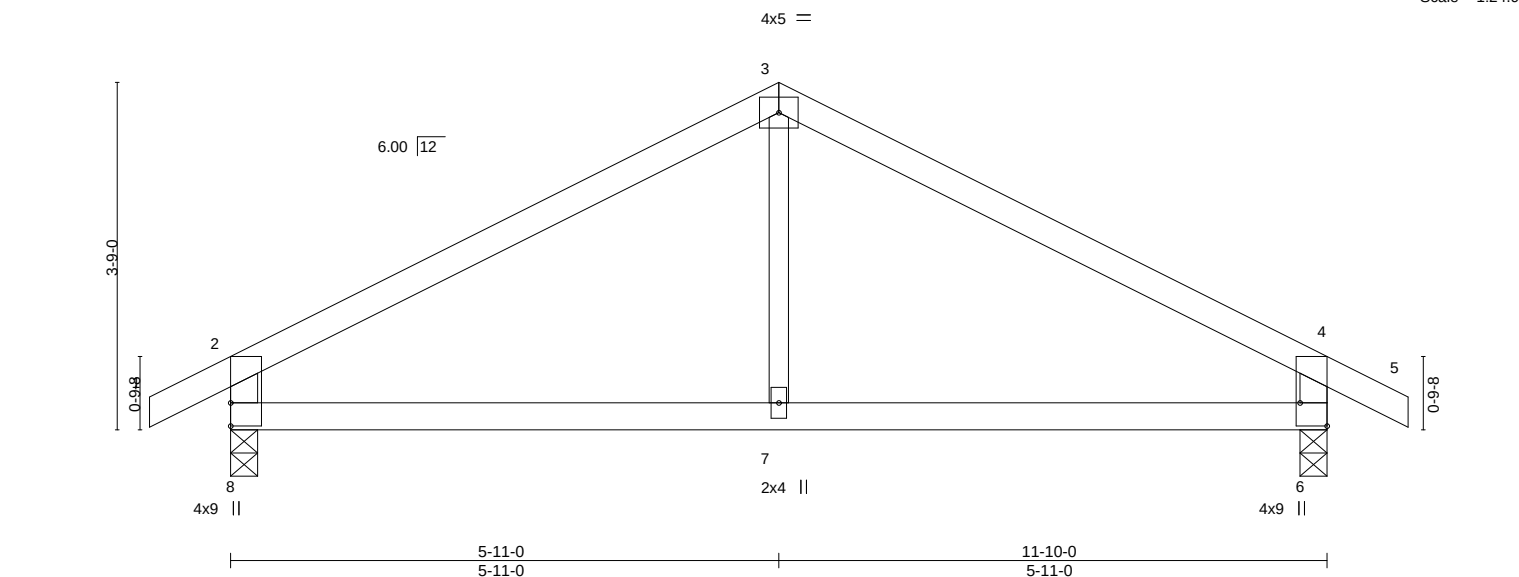


Plate Offsets (X,Y)--		[2:0-0-14,0-1-12], [4:0-0-14,0-1-12], [6:Edge,0-3-8], [6:0-0-0,0-1-12], [8:0-0-0,0-1-12]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.43
TCDL 10.0	Lumber DOL	1.15	BC 0.25
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.03	7-8	>999
Vert(CT)	-0.06	7-8	>999
Horz(CT)	0.01	6	n/a
Wind(LL)	0.01	7-8	>999
PLATES	GRIP		
MT20	197/144		
Weight: 34 lb		FT = 10%	

LUMBER-

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

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.

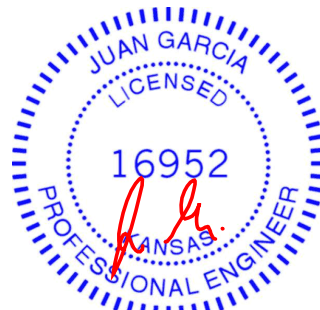
(size) 8=0-3-8, 6=0-3-8
 Max Horz 8=-65(LC 6)
 Max Uplift 8=-87(LC 8), 6=-87(LC 9)
 Max Grav 8=591(LC 1), 6=591(LC 1)

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

TOP CHORD 2-3=-621/89, 3-4=-621/89, 2-8=-532/128, 4-6=-532/128
 BOT CHORD 7-8=-14/465, 6-7=-14/465

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.



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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680375
400144	G4	COMMON GIRDER	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-_pvlXTgp1y0k20oJpf4ak1e9PN5YQYr23ar2DzZOO2

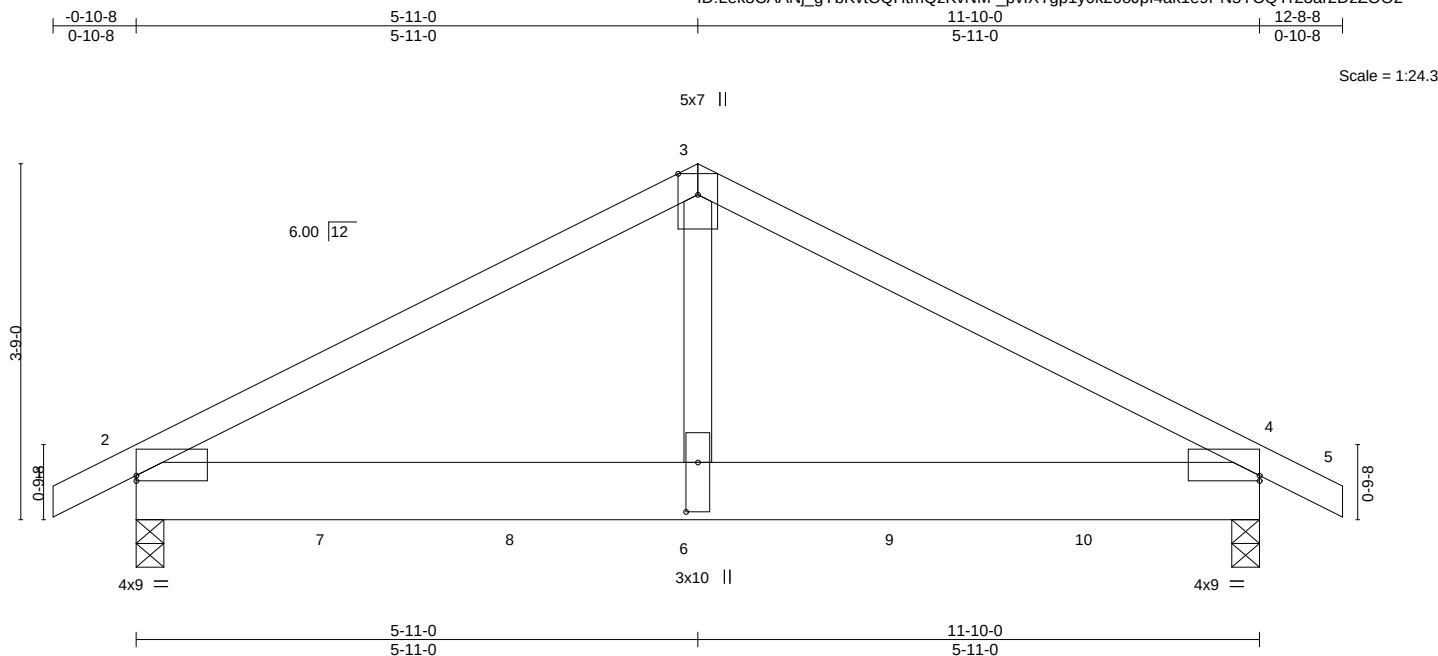


Plate Offsets (X,Y)-- [2:0-0-0,0-0-11], [4:0-0-0,0-0-11], [6:0-6-4,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.06 2-6 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.10 2-6 >999 240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.02 4 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.04 4-6 >999 240	Weight: 115 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x8 SP DSS
WEBS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
Max Horz 2=-39(LC 25)
Max Uplift 2=-163(LC 8), 4=-349(LC 9)
Max Grav 2=4138(LC 1), 4=4309(LC 1)

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

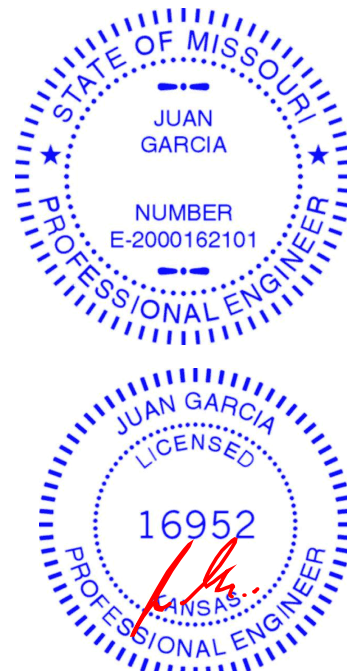
TOP CHORD 2-3=-5638/319, 3-4=-5638/317
BOT CHORD 2-6=-231/4817, 4-6=-231/4817
WEBS 3-6=-231/5062

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 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 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); 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) except (jt=lb) 2=163, 4=349.
- 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) 1451 lb down and 37 lb up at 2-1-0, 1451 lb down and 37 lb up at 4-1-0, 1455 lb down and 38 lb up at 6-1-0, and 1455 lb down and 203 lb up at 8-1-0, and 1455 lb down and 203 lb up at 10-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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



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Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR
400144	G4	COMMON GIRDER	1	2	I40680375
					Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 6=-1455(B) 7=-1451(B) 8=-1451(B) 9=-1455(B) 10=-1455(B)

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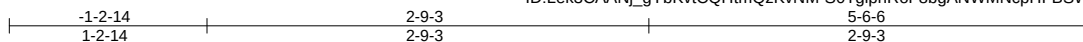
Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680376
400144	J1	Diagonal Hip Girder	2	1		

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-S0TglphRoF8bgANWMNcpHFBswNUEX0V?GiKOagzZOO1

Job Reference (optional)



Scale = 1:14.4

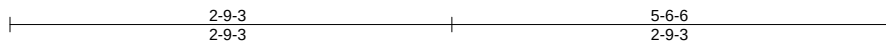
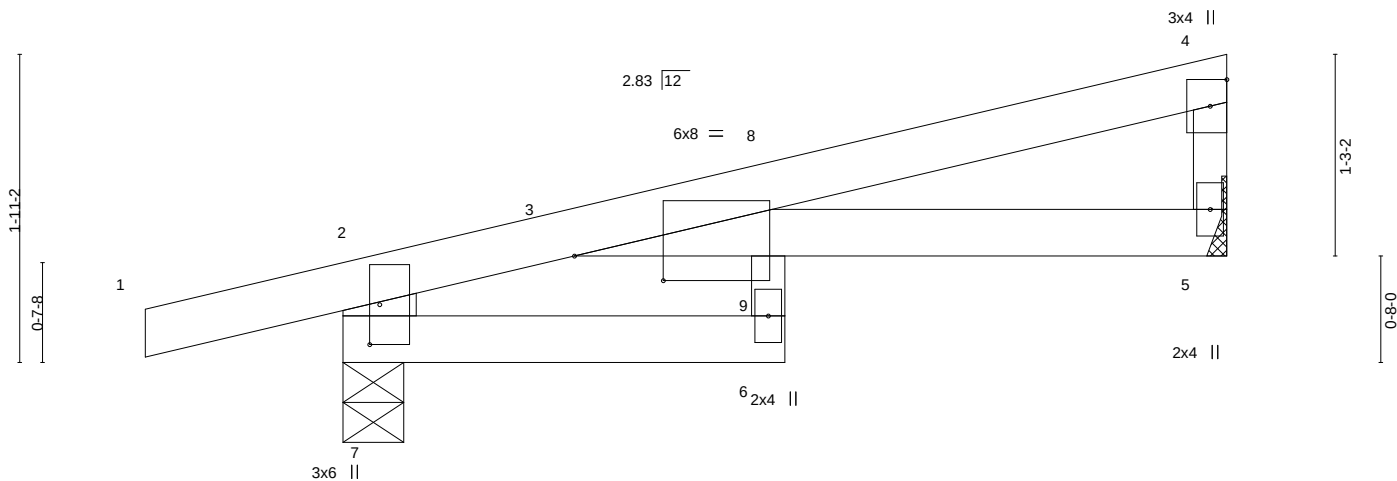


Plate Offsets (X,Y)-- [2:0-0-10,0-2-12], [3:0-6-11,0-1-14], [7:0-0-0,0-2-12], [7:0-3-0,0-0-12]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.06	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.14	6	>433	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.07	6	>891	240	Weight: 17 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 3-6: 2x3 SPF No.2
 WEBS 2x6 SPF No.2 *Except*
 4-5: 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) 7=0-4-9, 5=Mechanical
 Max Horz 7=63(LC 5)
 Max Uplift 7=99(LC 4), 5=-40(LC 8)
 Max Grav 7=364(LC 1), 5=225(LC 1)

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

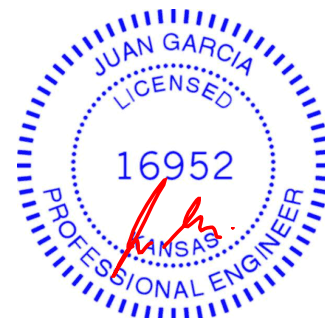
TOP CHORD 2-7=-342/112

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) 7, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 27 lb up at 2-9-8, and 66 lb down and 27 lb up at 2-9-8 on top chord, and 4 lb down and 3 lb up at 2-7-15, and 4 lb down and 3 lb up at 2-7-15 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, 3-4=-70, 6-7=-20, 3-5=-20
 Concentrated Loads (lb)
 Vert: 6=6(F=3, B=3)



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

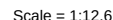
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



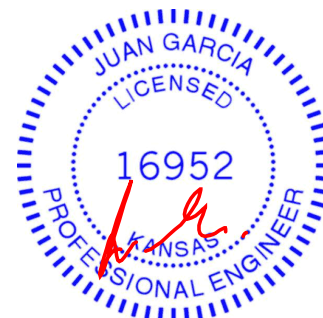
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

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ID:Lek3CAANI qYbKvtCOHtmOzKyNM-pzGZoWladonumxGT9wB zluMhoDDcHkkO 19EtzZONv



FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-252/75



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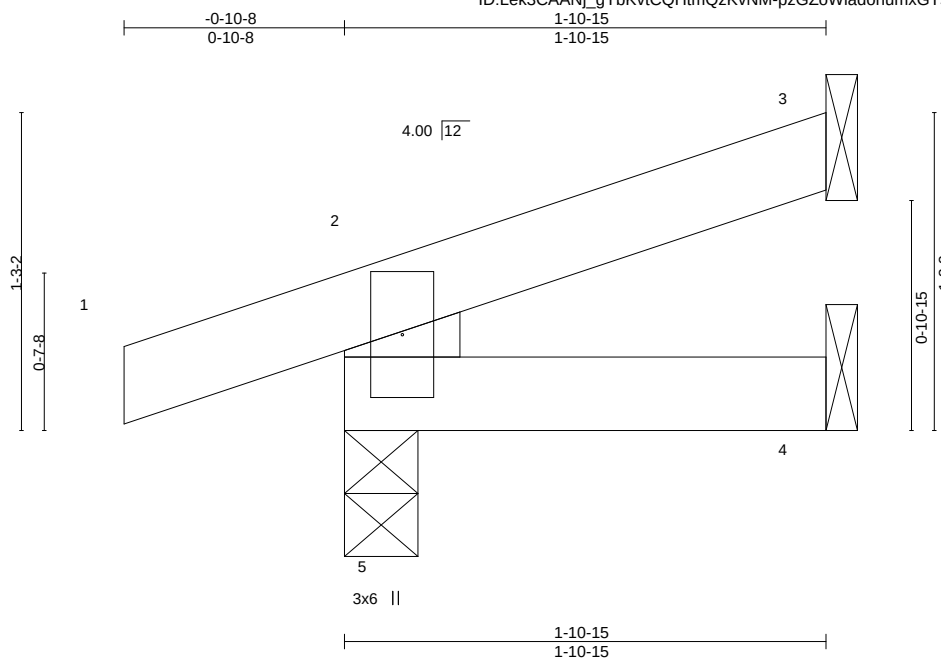
16023 Swingley Ridge Rd
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Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680378
400144	J3	Jack-Open	4	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-pzGZoWladonumxGT9wb_zluN?oFFcHkkQ_19EtZONy



Scale = 1:9.1

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 0.08	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	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%

LUMBER-

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

BRACING-

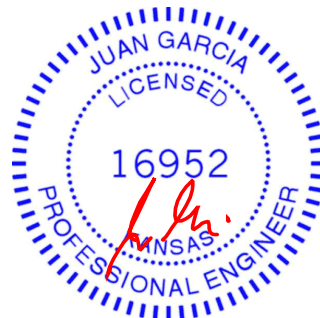
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=36(LC 4)
Max Uplift 5=65(LC 4), 3=-22(LC 8)
Max Grav 5=178(LC 1), 3=40(LC 1), 4=28(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) 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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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680379
400144	J4	Jack-Closed Supported Gable	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-HAqy?smCO5vIO5qfjdiDWWRY_CbTLk_tfenimJzZONx

-0-10-8 2-0-0
0-10-8 2-0-0

Scale = 1:10.6

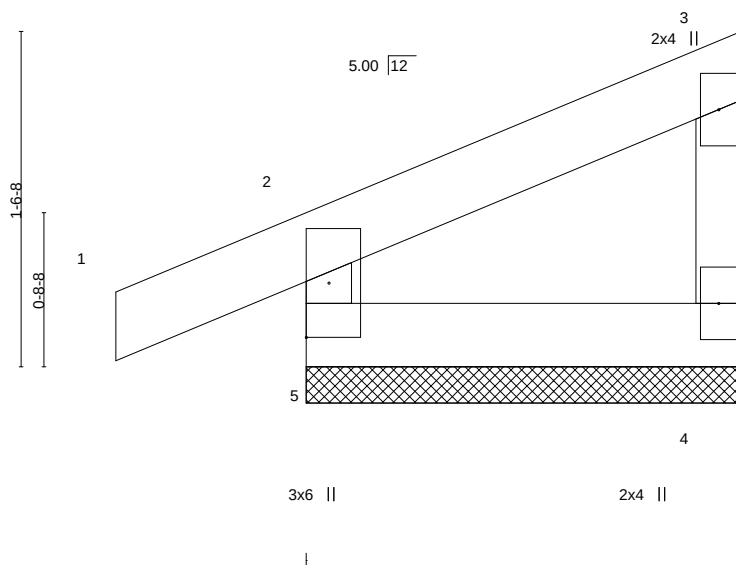


Plate Offsets (X,Y)--		[2:0-0-8,0-1-4], [5:0-0-0,0-1-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06
TCDL 10.0	Lumber DOL	1.15	BC 0.02
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-R
			DEFL. in (loc) l/defl L/d
			Vert(LL) 0.00 1 n/r 120
			Vert(CT) -0.00 1 n/r 120
			Horz(CT) -0.00 4 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 7 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 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=2-0-0, 4=2-0-0
Max Horz 5=58(LC 5)
Max Uplift 5=-40(LC 4), 4=-19(LC 5)
Max Grav 5=168(LC 1), 4=62(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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 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.



March 19,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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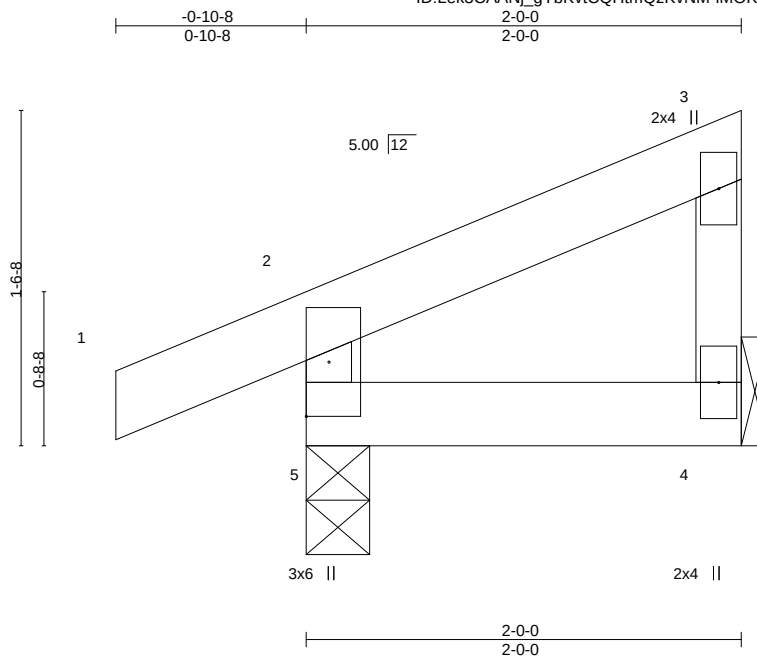
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680380
400144	J5	Jack-Closed	5	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:02:11 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-IMOKDCnq9P1c?FPsHLES3jzkcxi4BE1tiWGJmzZONw



Scale = 1:10.6

Plate Offsets (X,Y)--		[2:0-0-8,0-1-4], [5:0-0-0,0-1-4]									
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	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	Weight: 7 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 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

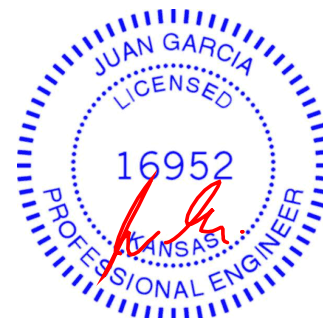
(size) 5=0-3-8, 4=Mechanical
Max Horz 5=58(LC 5)
Max Uplift 5=-40(LC 4), 4=-19(LC 5)
Max Grav 5=168(LC 1), 4=62(LC 1)

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, 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.



March 19,2020

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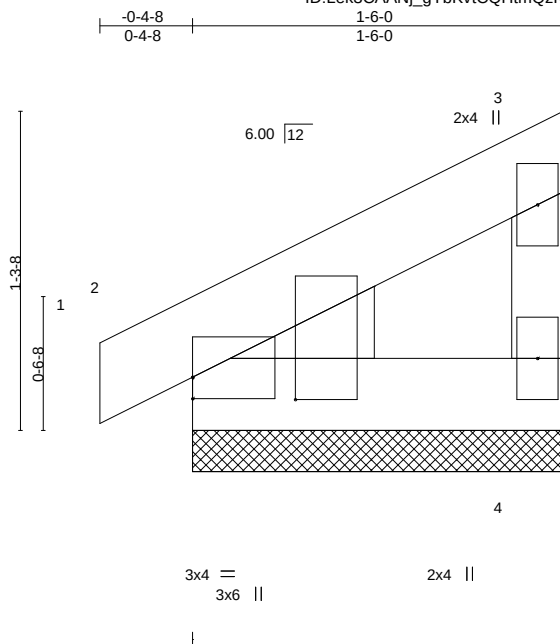
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	
400144	J6	JACK-CLOSED SUPPORTE	2	1		I40680381
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-IMOKDCnq9P1c?FPshLES3jzkKcxo4BE1tiWGJmzZONw



Scale = 1:9.3

Plate Offsets (X,Y)-- [2:0-0-0,0-1-1], [2:0-1-1,0-5-0]												
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	0.03	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	1	n/r	120		
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							Weight: 5 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=1-6-0, 2=1-6-0
Max Horz 2=38(LC 5)
Max Uplift 4=-17(LC 8), 2=-15(LC 8)
Max Grav 4=59(LC 1), 2=93(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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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.



March 19, 2020

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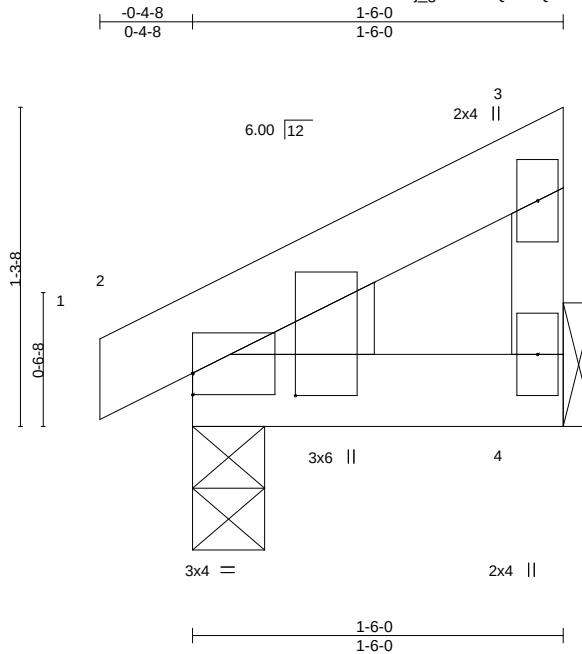
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680382
400144	J7	JACK-CLOSED	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHmQzKvNM-DYyiQYnSwj9SdP_2q2lhbWu60HmpeUA6yGprCzZONv



Scale = 1:9.3

Plate Offsets (X,Y)-- [2:0-0-0,0-1-1], [2:0-1-1,0-5-0]												
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	0.02	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	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 5 lb	FT = 10%

LUMBER-

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

BRACING-

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

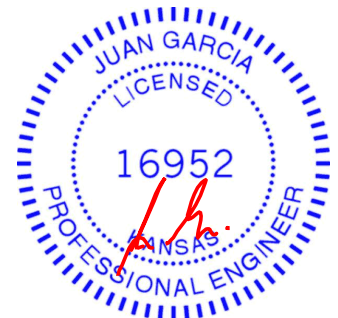
REACTIONS.

(size) 4=Mechanical, 2=0-3-8
Max Horz 2=38(LC 5)
Max Uplift 4=-17(LC 8), 2=-16(LC 8)
Max Grav 4=57(LC 1), 2=94(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.



March 19, 2020

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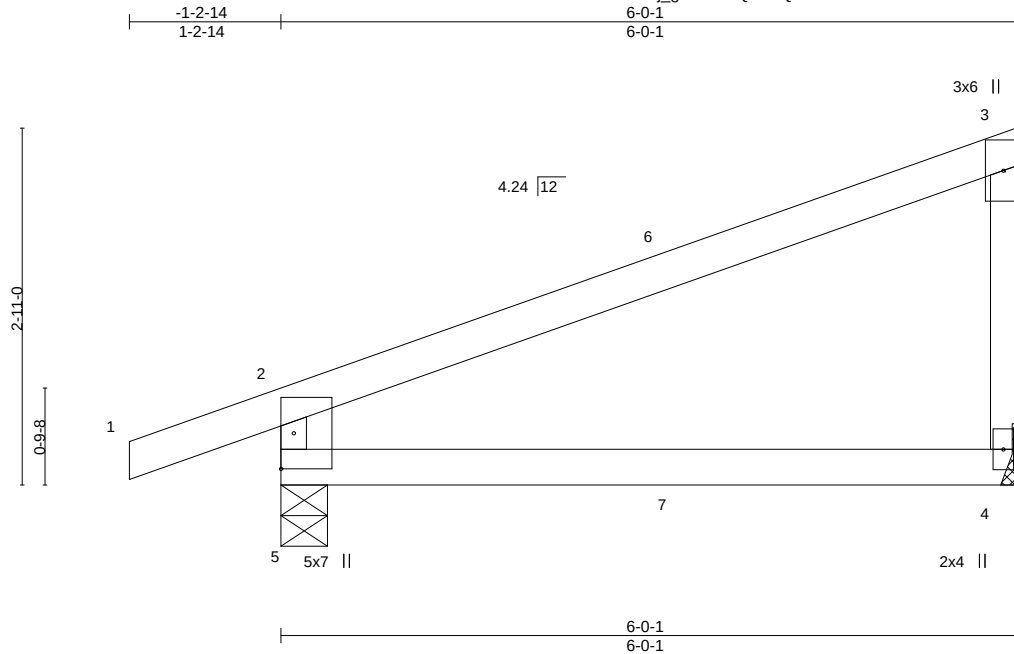
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680383
400144	J8	Diagonal Hip Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-iIW4euo4h0HJFZZEOIGw882x7PZgY5kKLC?MNeZONu



Scale = 1:18.8

Plate Offsets (X,Y)--	[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]									
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 0.52	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.10	4-5	>713	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: 18 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-4-9, 4=Mechanical
Max Horz 5=123(LC 5)
Max Uplift 5=101(LC 4), 4=57(LC 8)
Max Grav 5=366(LC 1), 4=250(LC 1)

FORCES.

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

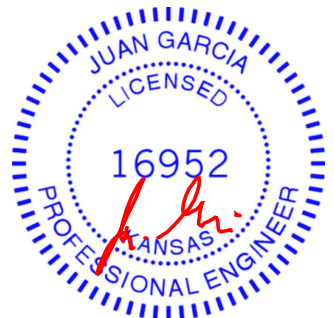
TOP CHORD 2-5=-320/144

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 4 except (jt=lb) 5=101.
- 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) 71 lb down and 45 lb up at 3-3-2, and 71 lb down and 45 lb up at 3-3-2 on top chord, and 6 lb down at 3-3-2, and 6 lb down at 3-3-2 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, 2-3=-70, 4-5=-20
Concentrated Loads (lb)
Vert: 7=-1(F=-0, B=-0)



March 19,2020

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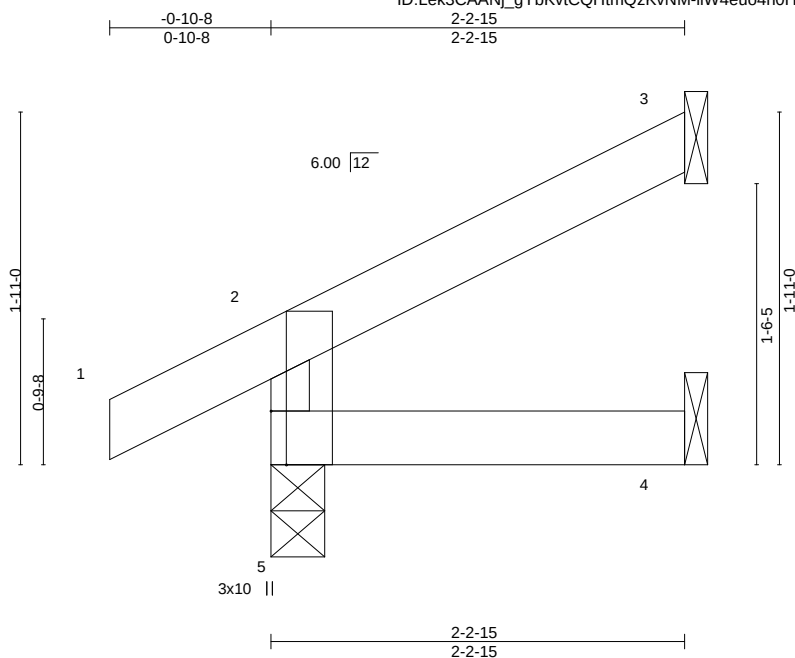
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400144	Truss J9	Truss Type Jack-Open	Qty 2	Ply 1	Lot 62 RR Job Reference (optional)	I40680384
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Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:02:13 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-iIW4euo4h0HJFZEOIGw8822CPd_Y5kKlc?MNeZZONu



Scale = 1:12.5

Plate Offsets (X,Y)--		[2:0-0-10,0-1-4], [5:0-3-8,Edge], [5:0-0-0,0-1-4]										
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	0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

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 2-2-15 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=52(LC 8)
Max Uplift 5=22(LC 8), 3=39(LC 8)
Max Grav 5=178(LC 1), 3=57(LC 1), 4=39(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) 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.



March 19, 2020

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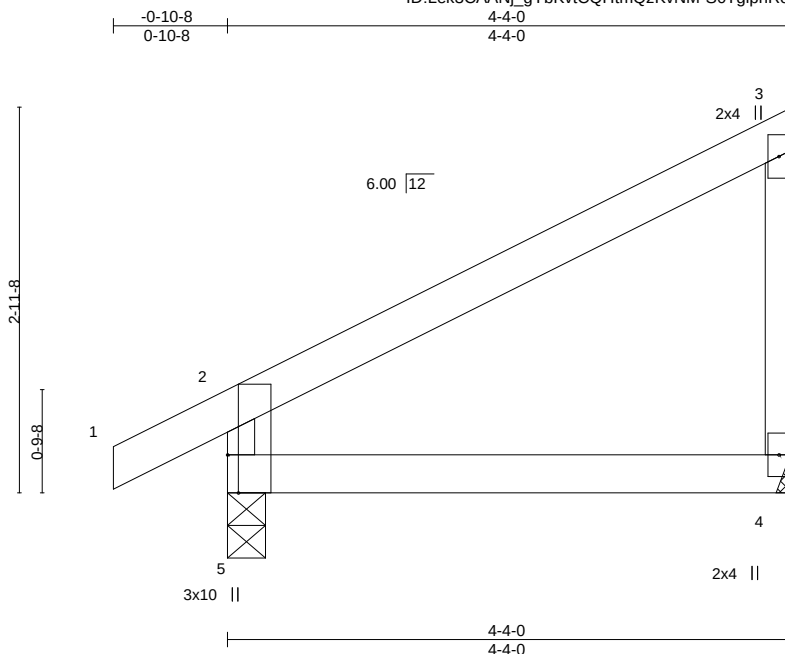
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680385
400144	J10	Jack-Closed	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:02:04 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-S0TglphRoF8bgANWMNcpHFBu0nWDx0V?GiKOagzZOO1



Scale = 1:17.7

Plate Offsets (X,Y)-- [2:0-0-10,0-1-4], [5:0-3-8,Edge], [5:0-0-0,0-1-4]									
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	0.22	Vert(LL)	-0.01 4-5 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.03 4-5 >999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00 4 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.01 4-5 >999 240	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 4-4-0 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=116(LC 5)
Max Uplift 5=43(LC 8), 4=48(LC 8)
Max Grav 5=262(LC 1), 4=177(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, 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.



March 19,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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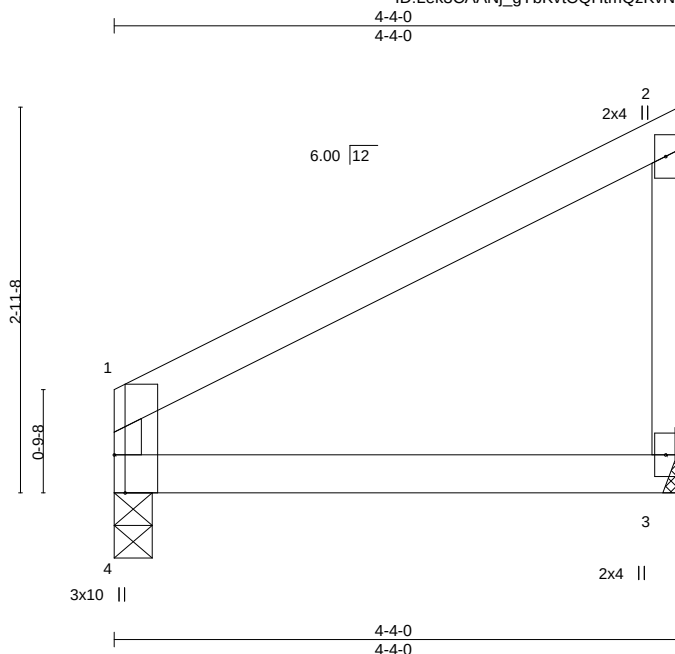
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 400144	Truss J11	Truss Type Jack-Closed	Qty 1	Ply 1	Lot 62 RR Job Reference (optional)	I40680386
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Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:02:05 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-xC13y9i3ZZGSHKyiw472pSjflBsQgTl8VM3x66zZOO0



Scale = 1:17.7

Plate Offsets (X,Y)-- [1:0-0-10,0-1-4], [4:0-3-8,Edge], [4:0-0-0,0-1-4]												
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	0.25	Vert(LL)	-0.01	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.03	3-4	>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-R		Wind(LL)	0.01	3-4	>999	240	Weight: 13 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 4-4-0 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=106(LC 5)
Max Uplift 4=-19(LC 8), 3=-50(LC 8)
Max Grav 4=186(LC 1), 3=186(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.



March 19,2020

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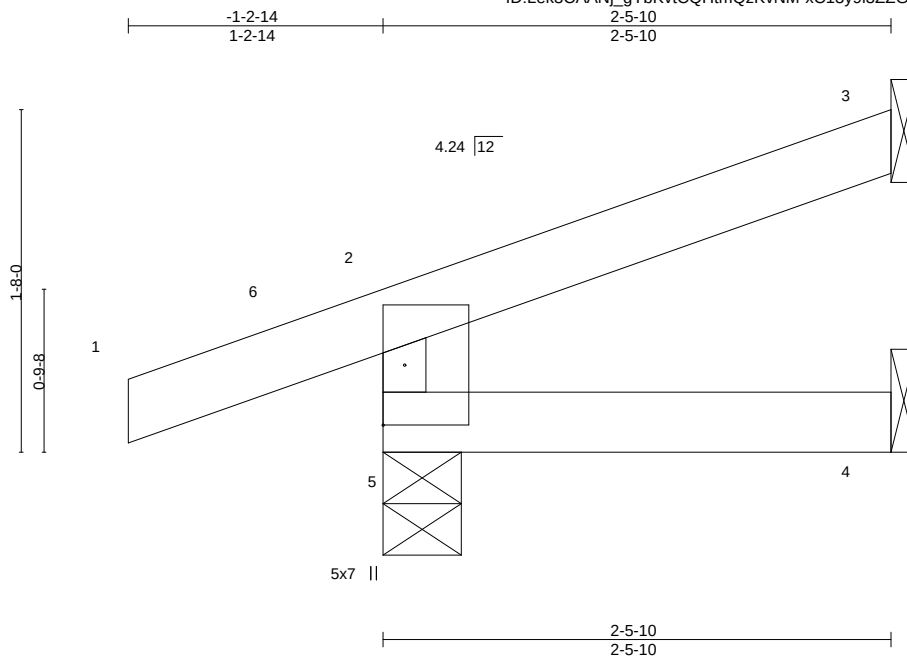
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680387
400144	J12	Diagonal Hip Girder	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:02:05 2020 Page 1

ID:Lek3CAAnj_gYbKvtCQHtmQzKvNM-xC13y9i3ZZGSHKyiw472pSjhgBu9gTl8VM3x66zZOO0



Scale = 1:11.2

Plate Offsets (X,Y)--		[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]	
LOADING (psf)		SPACING-	2-0-0
TCLL 25.0		Plate Grip DOL	1.15
TCDL 10.0		Lumber DOL	1.15
BCLL 0.0 *		Rep Stress Incr	NO
BCDL 10.0		Code IRC2018/TPI2014	
		CSI.	
		TC 0.10	
		BC 0.03	
		WB 0.00	
		Matrix-R	
		DEFL.	
		in (loc) l/defl L/d	
		Vert(LL) -0.00 4-5 >999 360	
		Vert(CT) -0.00 4-5 >999 240	
		Horz(CT) -0.00 3 n/a n/a	
		Wind(LL) 0.00 4-5 >999 240	
		PLATES	GRIP
		MT20	197/144
		Weight: 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 2-5-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-4-9, 3=Mechanical, 4=Mechanical
Max Horz 5=58(LC 7)
Max Uplift 5=87(LC 6), 3=42(LC 12), 4=2(LC 19)
Max Grav 5=97(LC 1), 3=24(LC 1), 4=32(LC 3)

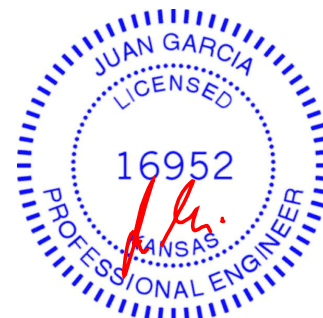
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 20 lb down and 7 lb up at -1-2-14, and 20 lb down and 7 lb up at -1-2-14 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=-30(F=-15, B=-15)
- Trapezoidal Loads (plf)
Vert: 1=0(F=35, B=35)-to-6=-24(F=23, B=23), 6=0(F=35, B=35)-to-2=-8(F=31, B=31), 2=-8(F=31, B=31)-to-3=-50(F=10, B=10), 5=-2(F=9, B=9)-to-4=-14(F=3, B=3)



March 19,2020

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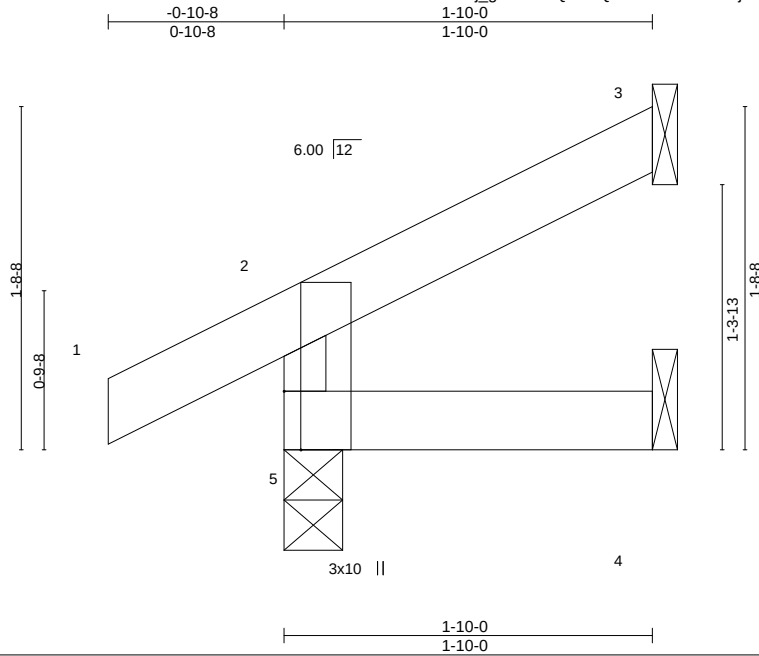
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680388
400144	J13	Jack-Open	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:02:06 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-POaRAVjhKtOJvUXuUneHMGsZbEXpw?lk0pVeYzZOO?



Scale = 1:11.5

Plate Offsets (X,Y)-- [2:0-0-10,0-1-4], [5:0-3-8,Edge], [5:0-0-0,0-1-4]											
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 0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	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%

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 1-10-0 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=45(LC 8)
Max Uplift 5=22(LC 8), 3=32(LC 8)
Max Grav 5=165(LC 1), 3=43(LC 1), 4=32(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) 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.



March 19,2020

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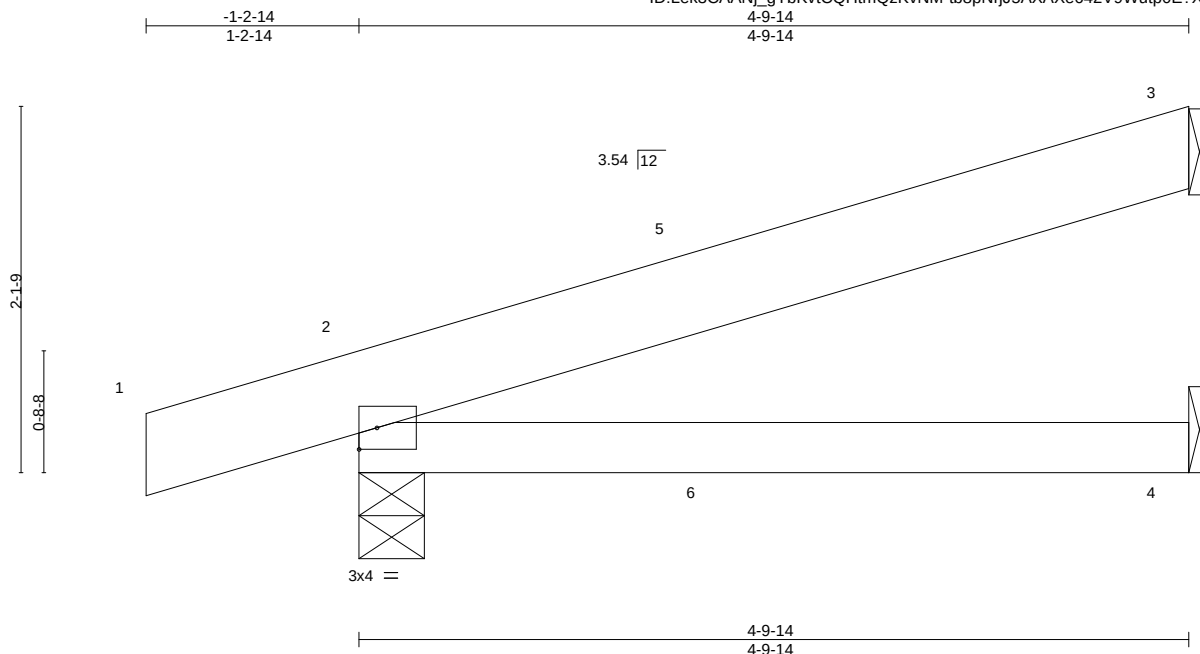
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680389
400144	J14	Diagonal Hip Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:02:07 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-tb8pNrjJ5AXAXe642V9Wutp0E?XQ8NFRzgY2B_zZOO_



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)	-0.03	2-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.05	2-4	>999	240		
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-P	Wind(LL)	-0.00	2-4	>999	240	Weight: 17 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=73(LC 4)
Max Uplift 3=-74(LC 8), 2=-95(LC 4)
Max Grav 3=144(LC 1), 2=319(LC 1), 4=91(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 22 lb up at 2-1-0, and 66 lb down and 22 lb up at 2-1-0 on top chord, and 2 lb down and 2 lb up at 2-1-0, and 2 lb down and 2 lb up at 2-1-0 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: 1-3=-70, 2-4=-20
Concentrated Loads (lb)
Vert: 6=4(F=2, B=2)



March 19, 2020

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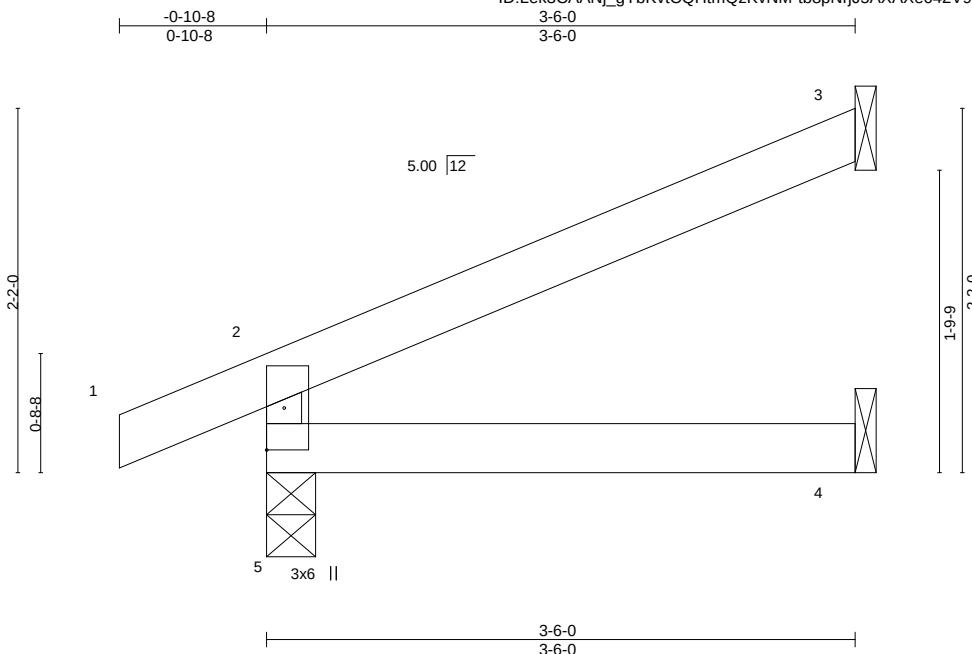
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680390
400144	J15	Jack-Open	9	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:02:07 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-tb8pNnjJ5AXAXe642V9Wutp0J?Zb8NFRzgY2B_zZOO_



Scale = 1:13.7

Plate Offsets (X,Y)-- [2:0-0-8,0-1-4], [5:0-0-0,0-1-4]												
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	0.16	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	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: 10 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 3-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

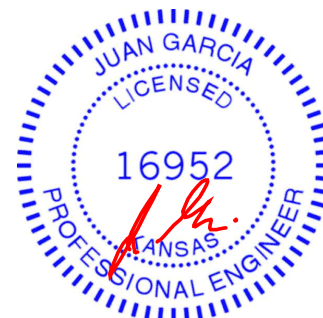
REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=65(LC 8)
Max Uplift 5=-34(LC 8), 3=-55(LC 8)
Max Grav 5=229(LC 1), 3=103(LC 1), 4=63(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) 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.



March 19,2020

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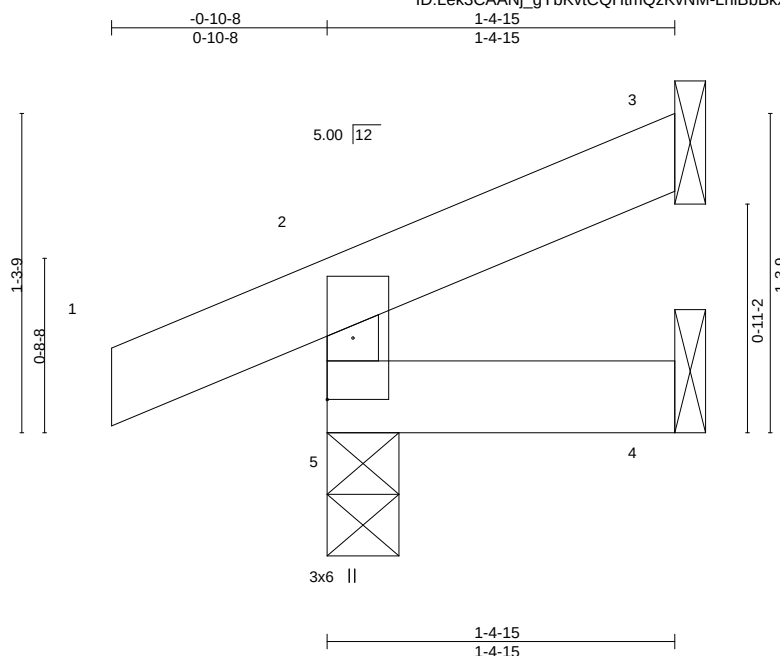
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680391
400144	J16	Jack-Open	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:02:08 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-LniBbBkxsUf18nhHbCglR5LCUOvAtqUbBKiciRzZONz



Scale = 1:9.4

Plate Offsets (X,Y)-- [2:0-0-8,0-1-4], [5:0-0-0,0-1-4]									
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 5 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00 5 >999	240	
BCLL	0.0 *	Rep Stress Incr	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: 5 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 1-4-15 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=33(LC 5)
Max Uplift 5=-34(LC 4), 3=-19(LC 8)
Max Grav 5=153(LC 1), 3=23(LC 1), 4=24(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) 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.



March 19,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680392
400144	LAY2	GABLE	1	1		

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-e7dq3aqKCeX1UsjdWAlODZ8OaDIK0_JdowUTSXzZONs

24-11-13
12-7-0

Scale = 1:53.8

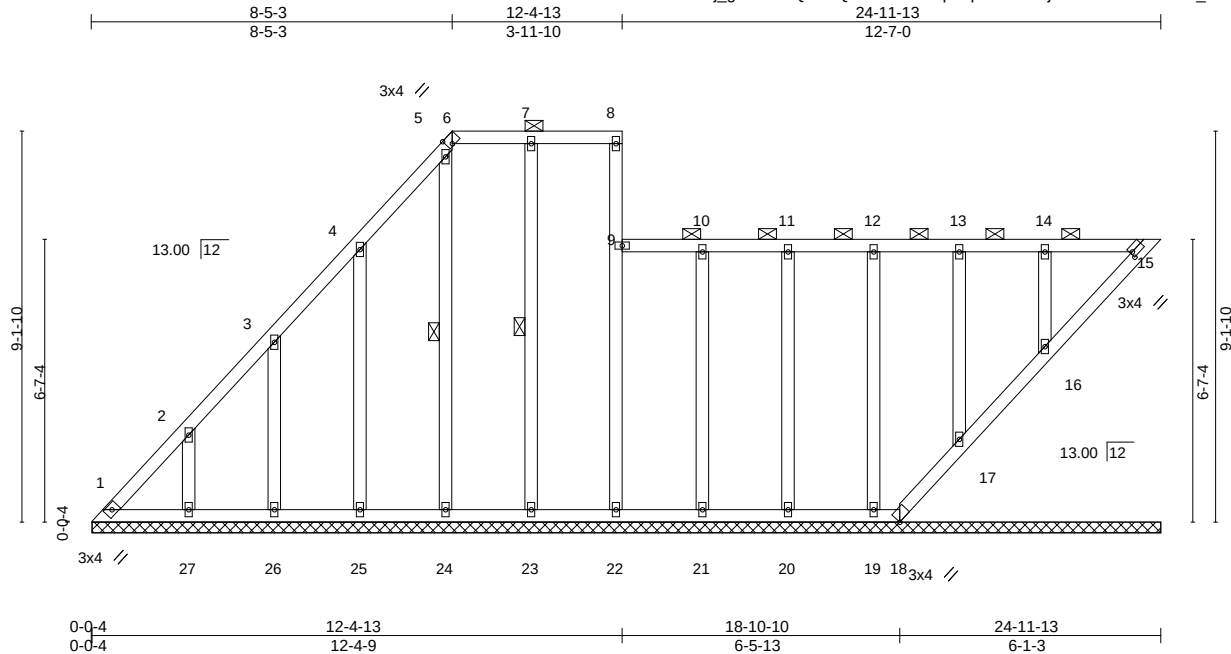


Plate Offsets (X, Y)--		[6:0-1-7, Edge], [15:0-0-10, 0-1-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.07		Vert(LL)	n/a -	n/a	999	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC 0.04		Vert(CT)	n/a -	n/a	999		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.12		Horz(CT)	-0.00 15	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S						Weight: 135 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

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.): 6-8, 9-22, 9-15.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16.
WEBS 1 Row at midpt 5-24, 7-23

REACTIONS.

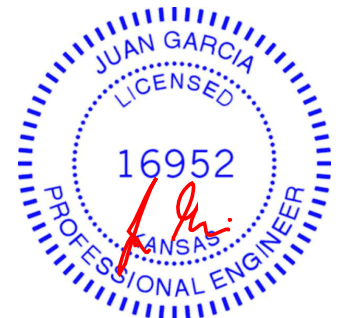
All bearings 24-11-9.
(lb) - Max Horz 1=464(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 22, 15, 18, 23, 21, 20, 19, 17, 16 except 1=127(LC 6), 27=-144(LC 8), 26=-124(LC 8), 25=-138(LC 8), 24=-116(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 22, 15, 18, 27, 26, 25, 24, 23, 21, 20, 19, 17, 16 except 1=388(LC 8)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-547/246, 2-3=-411/190, 3-4=-283/144

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) 22, 15, 18, 23, 21, 20, 19, 17, 16 except (jt=lb) 1=127, 27=144, 26=124, 25=138, 24=116.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15, 17, 16.
- 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.



March 19, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680393
400144	LAY3	GABLE	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHmQzKvNM-e7dq3aqKCeX1UsjdWAIODZ8PzDI0?udowUTSXzZONs

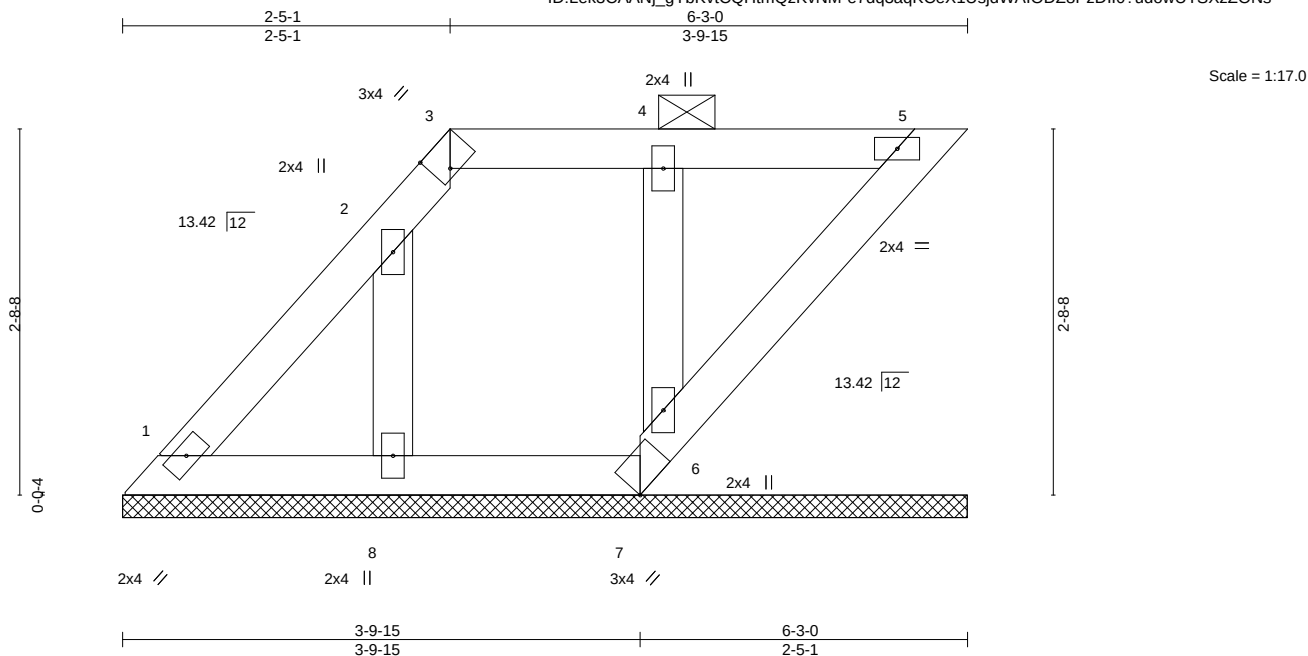


Plate Offsets (X,Y)-- [3:0-1-6,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 20 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.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 5-6.

REACTIONS.

All bearings 6-3-0.
(lb) - Max Horz 1=99(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 5, 7, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8, 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; 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) 5, 7, 8, 6.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 19,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680394
400144	V1	Valley	1	1	Job Reference (optional)	

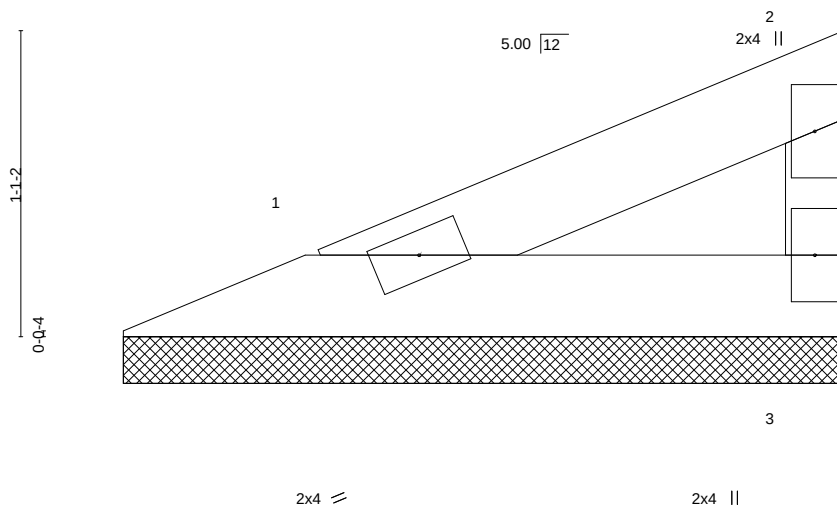
Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:02:17 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-aWlbTFrbkFnljAt?dbKsl_DIR1_1UujvGEzaWPzZONq

2-7-8
2-7-8

Scale = 1:8.2



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 0.05	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	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: 6 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 2-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=2-6-14, 3=2-6-14
Max Horz 1=33(LC 5)
Max Uplift 1=-12(LC 8), 3=-18(LC 8)
Max Grav 1=79(LC 1), 3=79(LC 1)

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

NOTES-

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



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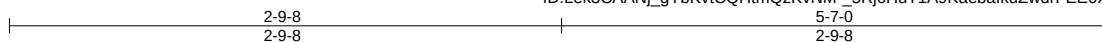
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680396
400144	V4	Valley	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

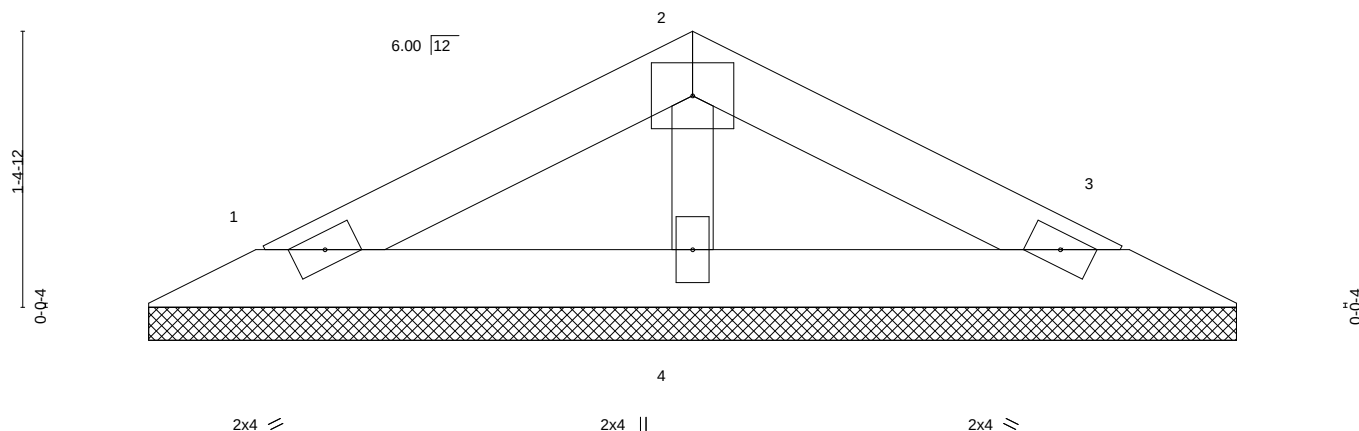
8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Mar 19 11:02:20 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-5Rj6HuT1A9KaebalkuZwdrFEE0XhF6MyCCE7kzZONn



4x5 =

Scale = 1:11.6



0-0-8		5-7-0									
0-0-8		5-6-8									
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 0.08		Vert(LL)	n/a -	n/a	999	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC 0.04		Vert(CT)	n/a -	n/a	999		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.02		Horz(CT)	0.00 3	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-P						Weight: 12 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

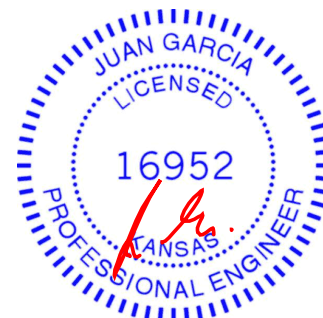
REACTIONS.

(size) 1=5-6-0, 3=5-6-0, 4=5-6-0
Max Horz 1=19(LC 12)
Max Uplift 1=-23(LC 8), 3=-27(LC 9), 4=-2(LC 8)
Max Grav 1=102(LC 1), 3=102(LC 1), 4=186(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
- 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, 3, 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.



March 19, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

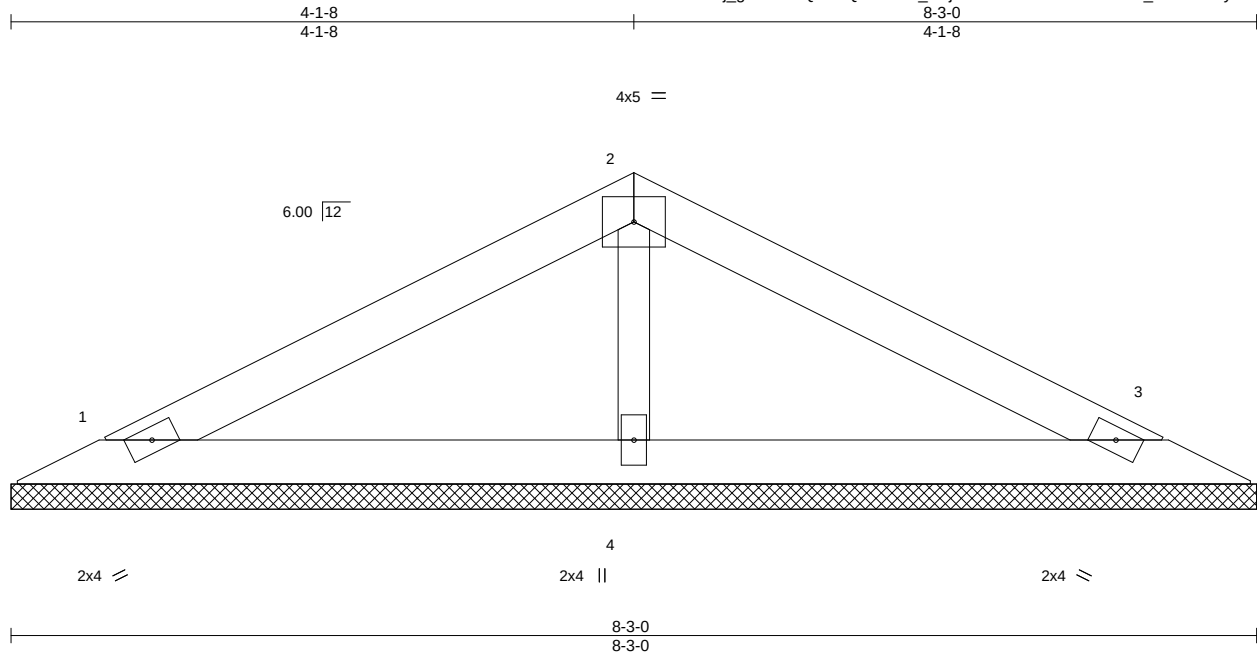
Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680397
400144	V5	GABLE	1	1		

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-_5Rj6HuT1A9KaebalkuZwdrD_E?YhFrMyCCE7kzZONn

Job Reference (optional)



Scale = 1:15.3

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 0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 19 lb	FT = 10%

LUMBER-

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

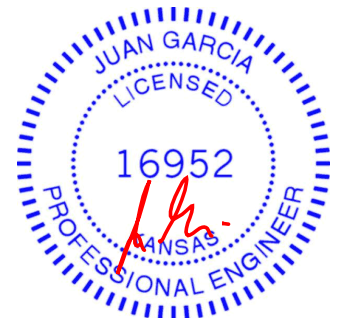
REACTIONS.

(size) 1=8-3-0, 3=8-3-0, 4=8-3-0
Max Horz 1=-31(LC 9)
Max Uplift 1=-38(LC 8), 3=-43(LC 9), 4=-43(LC 8)
Max Grav 1=164(LC 1), 3=164(LC 1), 4=301(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
- 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, 3, 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.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 62 RR	I40680398
400144	V6	Valley	1	1		

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-TH_6Jdu5oUHBcAnsRPOtQORfeKzQiiVBxofBzZONm

Job Reference (optional)

2-1-8 2-1-8 4-3-0 2-1-8

Scale: 1.5"=1'

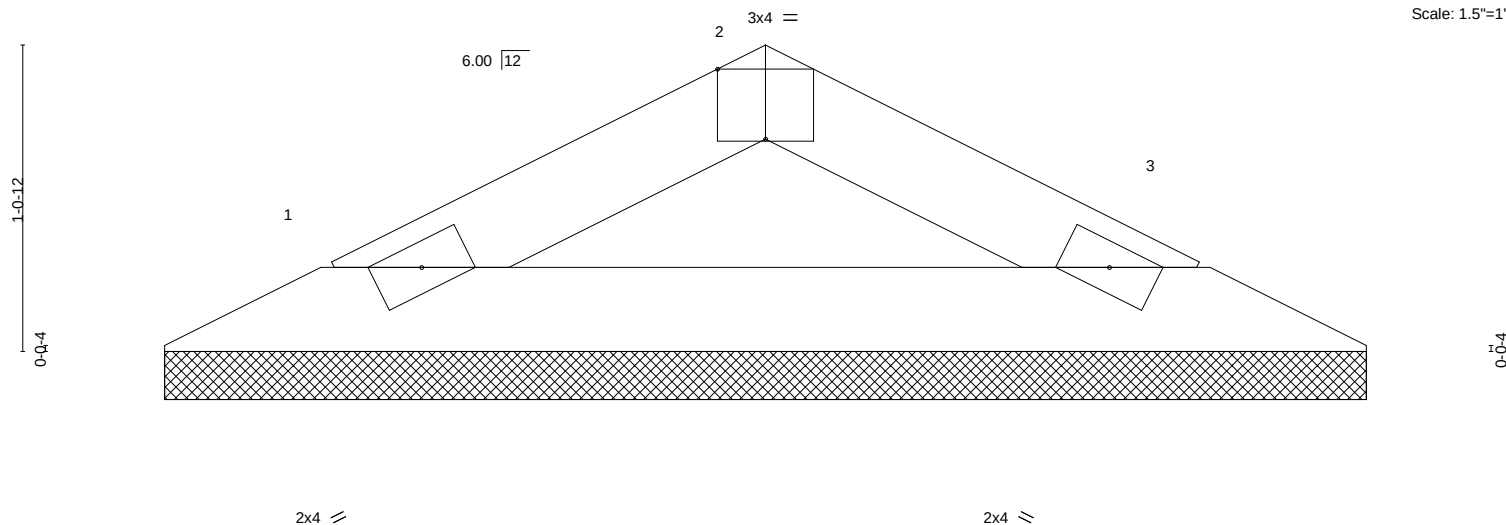


Plate Offsets (X,Y)--	2-0-2-0,Edge	4-2-8	4-3-0
		4-2-8	0-0-8

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 0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 9 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=4-2-0, 3=4-2-0
Max Horz 1=-13(LC 9)
Max Uplift 1=-17(LC 8), 3=-17(LC 9)
Max Grav 1=135(LC 1), 3=135(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
- 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, 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.



March 19,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

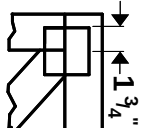
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



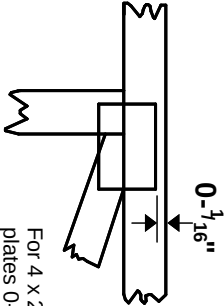
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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 2012 software or upon request.**

PLATE SIZE

4 X 4

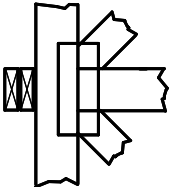
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



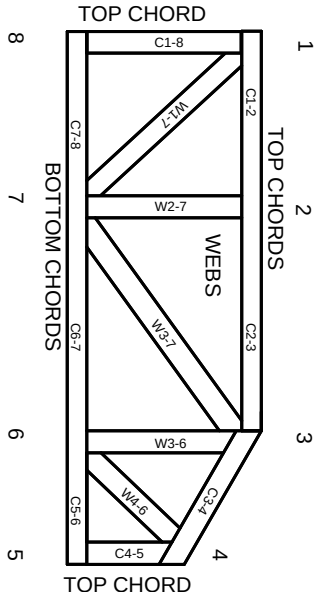
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: 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)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.