



RE: 210328
Lot 116 W0

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Site Information:

Customer: Project Name: 210328
Lot/Block:
Address:
City:

Model:
Subdivision:
State:

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

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

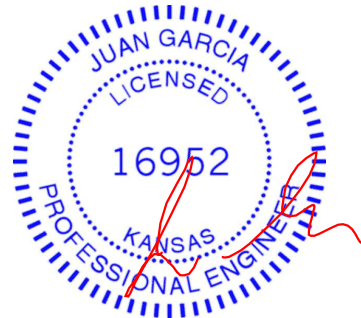
Design Program: MiTek 20/20 8.4
Wind Speed: 115 mph
Floor Load: N/A psf

This package includes 57 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I45128841	B1	3/10/2021	21	I45128861	E5	3/10/2021
2	I45128842	B2	3/10/2021	22	I45128862	E6	3/10/2021
3	I45128843	B3	3/10/2021	23	I45128863	E7	3/10/2021
4	I45128844	B4	3/10/2021	24	I45128864	E8	3/10/2021
5	I45128845	B5	3/10/2021	25	I45128865	E9	3/10/2021
6	I45128846	B6	3/10/2021	26	I45128866	G1	3/10/2021
7	I45128847	B7	3/10/2021	27	I45128867	G2	3/10/2021
8	I45128848	B8	3/10/2021	28	I45128868	G3	3/10/2021
9	I45128849	B9	3/10/2021	29	I45128869	G4	3/10/2021
10	I45128850	C1	3/10/2021	30	I45128870	G5	3/10/2021
11	I45128851	C2	3/10/2021	31	I45128871	J8	3/10/2021
12	I45128852	D1	3/10/2021	32	I45128872	J9	3/10/2021
13	I45128853	D2	3/10/2021	33	I45128873	J10	3/10/2021
14	I45128854	D3	3/10/2021	34	I45128874	J11	3/10/2021
15	I45128855	D4	3/10/2021	35	I45128875	J12	3/10/2021
16	I45128856	D5	3/10/2021	36	I45128876	J13	3/10/2021
17	I45128857	E1	3/10/2021	37	I45128877	J14	3/10/2021
18	I45128858	E2	3/10/2021	38	I45128878	J14A	3/10/2021
19	I45128859	E3	3/10/2021	39	I45128879	J15	3/10/2021
20	I45128860	E4	3/10/2021	40	I45128880	J16	3/10/2021

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.
Truss Design Engineer's Name: Garcia, Juan
My license renewal date for the state of Kansas is April 30, 2022.
Kansas COA: E-943

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



March 10, 2021



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Project Customer: Project Name: 210328

Lot/Block:

Subdivision:

Address:

City, County:

State:

No.	Seal#	Truss Name	Date
41	I45128881	J17	3/10/2021
42	I45128882	J18	3/10/2021
43	I45128883	J19	3/10/2021
44	I45128884	J20	3/10/2021
45	I45128885	J21	3/10/2021
46	I45128886	J22	3/10/2021
47	I45128887	J23	3/10/2021
48	I45128888	J24	3/10/2021
49	I45128889	J25	3/10/2021
50	I45128890	J26	3/10/2021
51	I45128891	J27	3/10/2021
52	I45128892	LAY2	3/10/2021
53	I45128893	LAY3	3/10/2021
54	I45128894	LAY4	3/10/2021
55	I45128895	V1	3/10/2021
56	I45128896	V2	3/10/2021
57	I45128897	V3	3/10/2021



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

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

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

This package includes 57 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I45128841	B1	3/10/2021	21	I45128861	E5	3/10/2021
2	I45128842	B2	3/10/2021	22	I45128862	E6	3/10/2021
3	I45128843	B3	3/10/2021	23	I45128863	E7	3/10/2021
4	I45128844	B4	3/10/2021	24	I45128864	E8	3/10/2021
5	I45128845	B5	3/10/2021	25	I45128865	E9	3/10/2021
6	I45128846	B6	3/10/2021	26	I45128866	G1	3/10/2021
7	I45128847	B7	3/10/2021	27	I45128867	G2	3/10/2021
8	I45128848	B8	3/10/2021	28	I45128868	G3	3/10/2021
9	I45128849	B9	3/10/2021	29	I45128869	G4	3/10/2021
10	I45128850	C1	3/10/2021	30	I45128870	G5	3/10/2021
11	I45128851	C2	3/10/2021	31	I45128871	J8	3/10/2021
12	I45128852	D1	3/10/2021	32	I45128872	J9	3/10/2021
13	I45128853	D2	3/10/2021	33	I45128873	J10	3/10/2021
14	I45128854	D3	3/10/2021	34	I45128874	J11	3/10/2021
15	I45128855	D4	3/10/2021	35	I45128875	J12	3/10/2021
16	I45128856	D5	3/10/2021	36	I45128876	J13	3/10/2021
17	I45128857	E1	3/10/2021	37	I45128877	J14	3/10/2021
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20	I45128860	E4	3/10/2021	40	I45128880	J16	3/10/2021

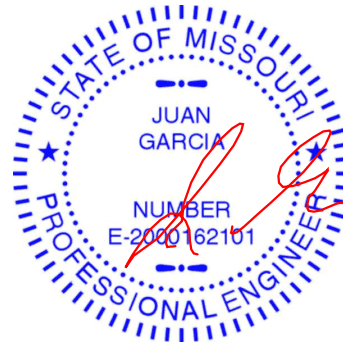
The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

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

Missouri COA: 001193

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



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49	I45128889	J25	3/10/2021
50	I45128890	J26	3/10/2021
51	I45128891	J27	3/10/2021
52	I45128892	LAY2	3/10/2021
53	I45128893	LAY3	3/10/2021
54	I45128894	LAY4	3/10/2021
55	I45128895	V1	3/10/2021
56	I45128896	V2	3/10/2021
57	I45128897	V3	3/10/2021

Job 210328	Truss B1	Truss Type GABLE	Qty 1	Ply 1	Lot 116 W0 I45128841
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:29:52 2021 Page 1

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-IHaTWpDDUwmvXafoYfhSSyDqQWinovfpLo7BmBzcNaT

0-10-8 10-0-0 20-0-0 20-10-8
0-10-8 10-0-0 10-0-0 0-10-8

3x4 =

Scale = 1:46.0

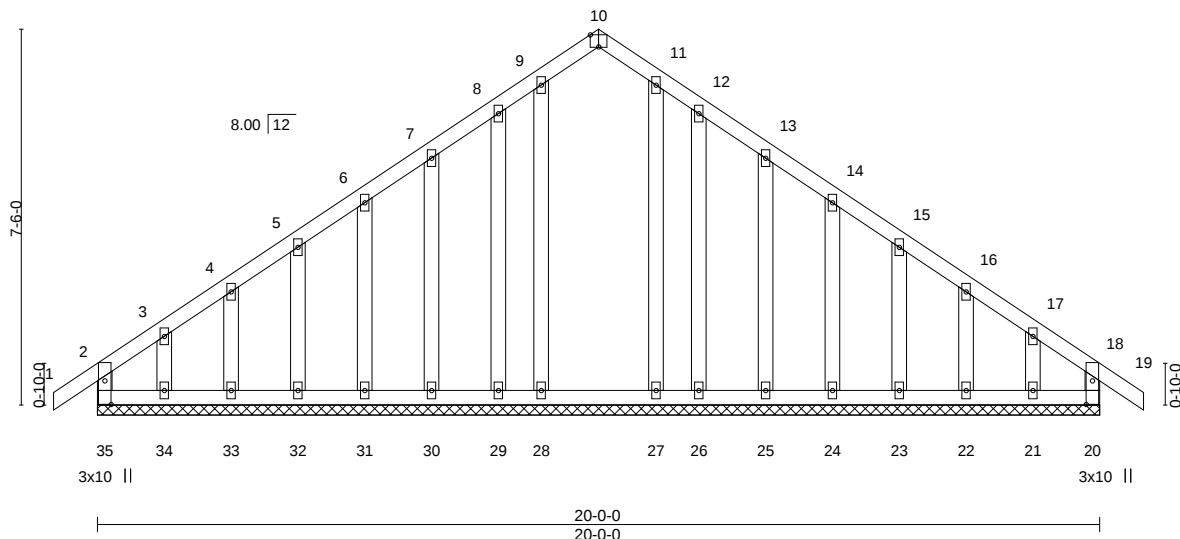


Plate Offsets (X,Y)-- [10:0-2-0,Edge], [20:0-5-10,0-1-8], [35:0-5-10,0-1-8]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	-0.00 19	n/r 120
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.00 19	n/r 120
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00 20	n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R			
					PLATES	GRIP
					MT20	197/144
					Weight: 115 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 20-0-0.

(lb) - Max Horz 35=213(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 35, 20, 33, 32, 31, 30, 29, 26, 25, 24, 23, 22 except 34=-155(LC 8), 21=-145(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 35, 20, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21

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 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 35, 20, 33, 32, 31, 30, 29, 26, 25, 24, 23, 22 except (it=lb) 34=155, 21=145.
- 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 10, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:29:53 2021 Page 1
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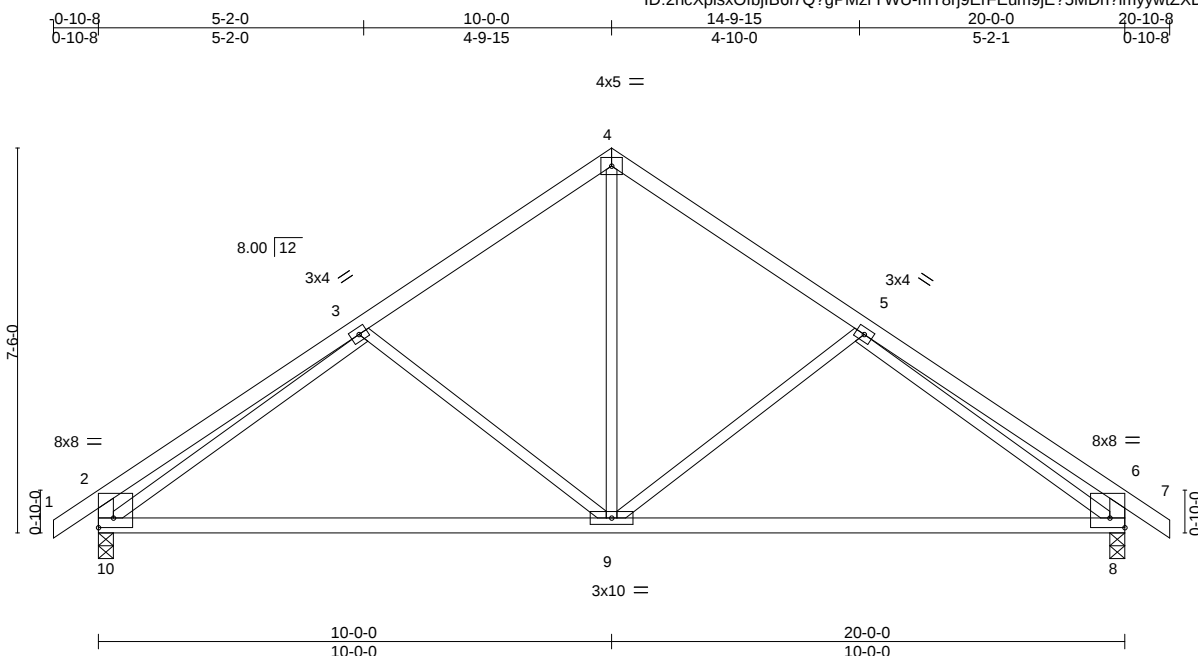


Plate Offsets (X,Y)-- [2:Edge,0-2-4], [6:Edge,0-2-4]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.18	8-9	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.37	8-9	>633	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.03	8	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.02	9	>999	240	Weight: 79 lb	FT = 10%	

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-10.6-8: 2x4 SPF No.2

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 5-11-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 8=0-3-8
 Max Horz 10=213(LC 7)
 Max Uplift 10=-123(LC 8), 8=-123(LC 9)
 Max Grav 10=958(LC 1), 8=958(LC 1)

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

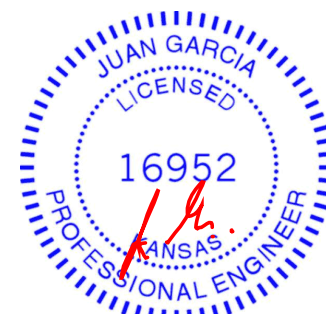
TOP CHORD 2-3=-485/125, 3-4=-875/159, 4-5=-875/158, 5-6=-485/124, 2-10=-460/148,
6-8=-460/148

BOT CHORD 9-10=-153/869, 8-9=-48/843

WEBS 4-9=-55/534, 5-9=-292/220, 3-9=-292/220, 3-10=-662/94, 5-8=-662/94

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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) 10=123, 8=123.
- 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 10, 2021

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

WARNING: Velly design parameters are READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MM-1475 (Rev. 3/25/2020) BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128843
210328	B3	Common	2	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:29:54 2021 Page 1

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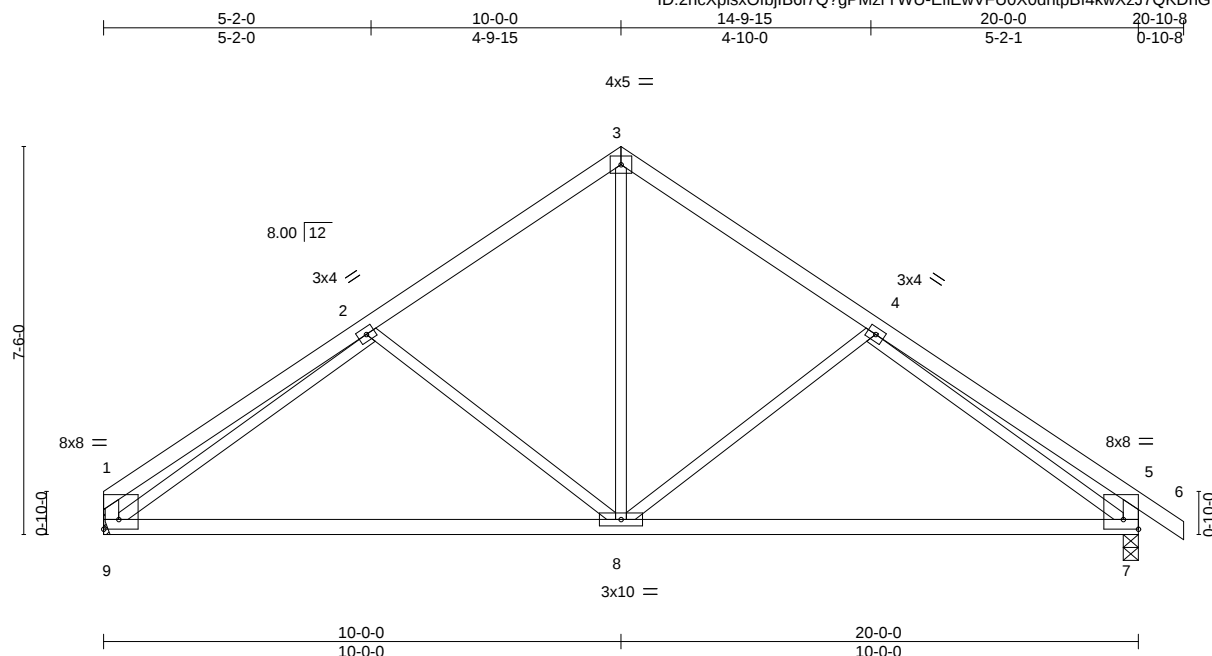


Plate Offsets (X,Y)--		[1:Edge,0-2-4], [5:Edge,0-2-4]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.18	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.37	7-8	>633	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.02	8	>999	240	Weight: 78 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 1-9,5-7: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 9=Mechanical, 7=0-3-8
 Max Horz 9=-207(LC 6)
 Max Uplift 9=-100(LC 8), 7=-123(LC 9)
 Max Grav 9=885(LC 1), 7=960(LC 1)

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

TOP CHORD 1-2=-431/79, 2-3=-879/159, 3-4=-877/159, 4-5=-485/124, 1-9=-348/94, 5-7=-460/148
 BOT CHORD 8-9=-156/879, 7-8=-48/846
 WEBS 3-8=-57/541, 4-8=-292/220, 2-8=-302/224, 2-9=-724/125, 4-7=-665/94

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 7=123.
- 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 10,2021

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 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	145128844
210328	B4	ROOF SPECIAL GIRDER	1	2		

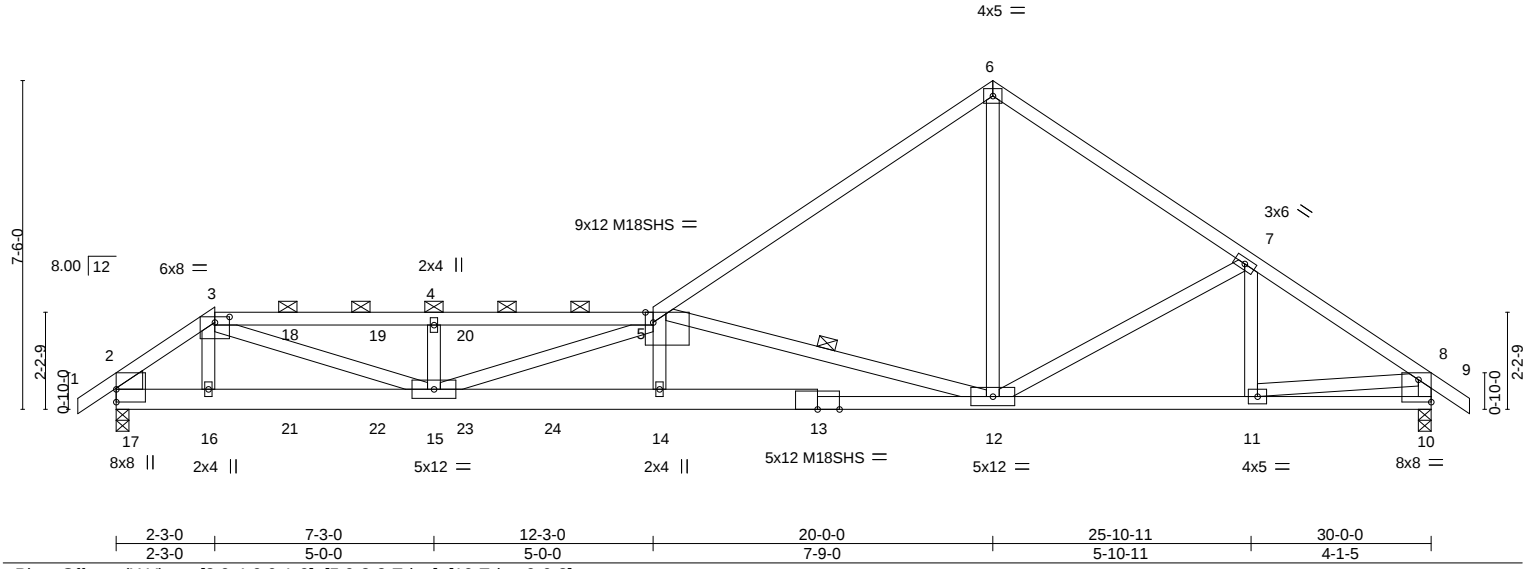
Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:29:55 2021 Page 1

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0-10-8	2-3-0	7-3-0	12-3-0	20-0-0	25-10-11	30-0-0	30-10-8
0-10-8	2-3-0	5-0-0	5-0-0	7-9-0	5-10-11	4-1-5	0-10-8

Scale = 1:52.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.91	Vert(LL)	-0.39 14-15	>907	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-0.69 14-15	>511	240	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.87	Horz(CT)	0.08 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.30 14-15	>999	240		
								Weight: 273 lb	FT = 10%

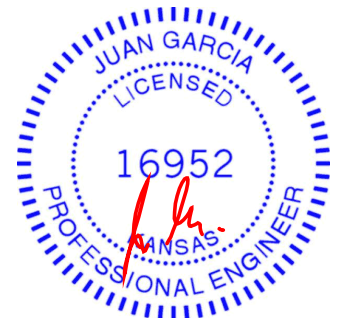
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-4-2 max.): 3-5.
BOT CHORD 2x6 SPF 1650F 1.4E *Except* 10-13: 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 2-17: 2x8 SP DSS	WEBS 1 Row at midpt 5-12

REACTIONS. (size) 17=0-3-8, 10=0-3-8
Max Horz 17=213(LC 7)
Max Uplift 17=516(LC 8), 10=234(LC 9)
Max Grav 17=2628(LC 1), 10=1826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2927/546, 3-4=-7731/1381, 4-5=-7731/1381, 5-6=-2347/346, 6-7=-2302/404, 7-8=-2425/318, 2-17=-1824/353, 8-10=-1779/251
BOT CHORD 16-17=-511/2360, 15-16=-525/2405, 14-15=-1490/8859, 12-14=-1490/8908, 11-12=-200/1957
WEBS 3-16=-592/174, 3-15=-954/5688, 4-15=-722/331, 5-15=-1209/233, 5-14=-12/647, 5-12=-7305/1335, 6-12=-237/1943, 7-12=-293/222, 8-11=-176/1782

- 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, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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) 17=516, 10=234.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2



March 10, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0
210328	B4	ROOF SPECIAL GIRDER	1	2	I45128844
Job Reference (optional)					

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 158 lb down and 98 lb up at 3-11-4, and 158 lb down and 98 lb up at 5-11-4, and 158 lb down and 98 lb up at 7-11-4 on top chord, and 199 lb down and 86 lb up at 2-3-0, 66 lb down at 3-11-4, 66 lb down at 5-11-4, and 66 lb down at 7-11-4, and 1017 lb down and 175 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 16=-199(F) 18=-108(F) 19=-108(F) 20=-108(F) 21=-33(F) 22=-33(F) 23=-33(F) 24=-1017(F)

Scale = 1:52.6

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	145128846
210328	B6	Roof Special	1	1		

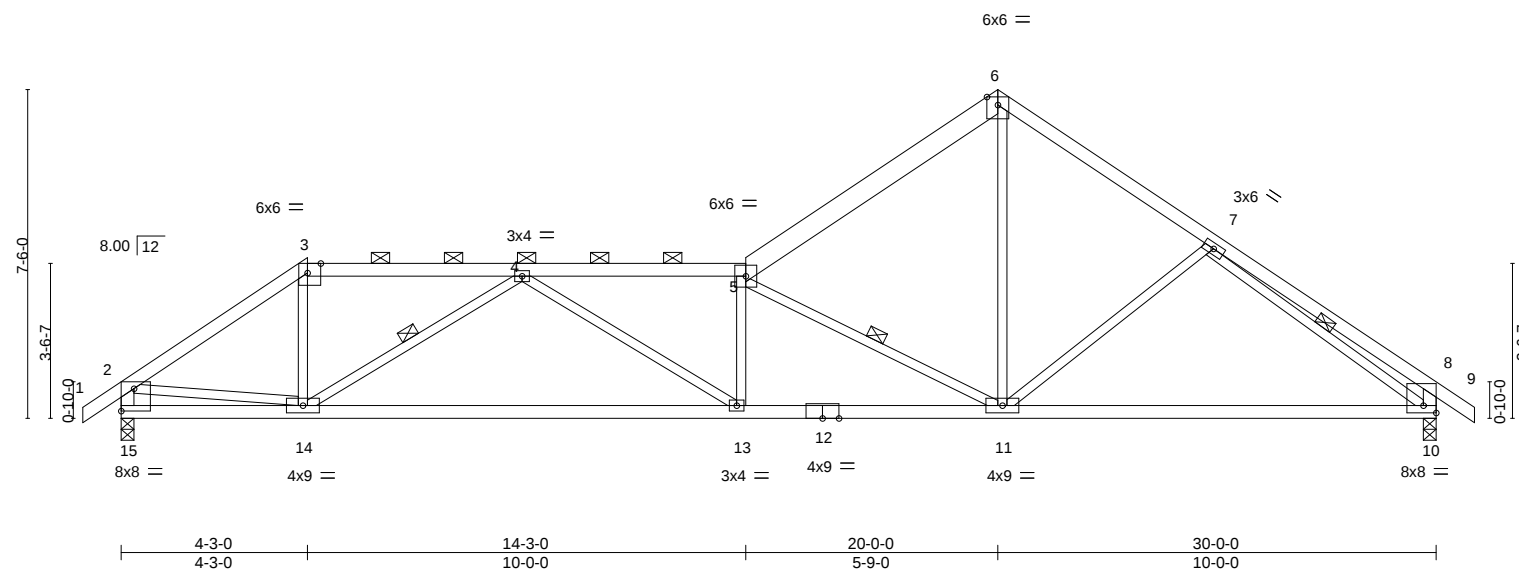
Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:29:58 2021 Page 1

ID:2ncXplsXOfbjIB6I7Q?gPMzrYWU-7Rkxmsl_4mW2FV6yuwoshpTIAxYxCQBjkaV_rzcNaN

0-10-8	4-3-0	9-1-12	14-3-0	20-0-0	24-10-0	30-0-0	30-10-8
0-10-8	4-3-0	4-10-12	5-1-4	5-9-0	4-10-0	5-2-1	0-10-8

Scale = 1:52.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.29 13-14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.64 13-14	>554	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.10 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.15 13	>999	240	Weight: 120 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
5-6: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-15,8-10: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals, and 2-0-0 oc purlins (2-11-4 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-14, 5-11, 7-10

REACTIONS.

(size) 15=0-3-8, 10=0-3-8
Max Horz 15=-213(LC 6)
Max Uplift 15=-230(LC 8), 10=-142(LC 9)
Max Grav 15=1408(LC 1), 10=1408(LC 1)

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

TOP CHORD 2-3=-1858/260, 3-4=-1460/256, 4-5=-3080/432, 5-6=-1612/221, 6-7=-1610/267, 7-8=-620/116, 2-15=-1399/229, 8-10=-544/145
BOT CHORD 14-15=-218/325, 13-14=-448/2585, 11-13=-418/3085, 10-11=-129/1401
WEBS 3-14=-20/711, 4-14=-1344/250, 4-13=-18/590, 5-11=-2102/397, 6-11=-140/1291, 2-14=-37/1301, 7-10=-1238/198

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=230, 10=142.
- 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 10, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128847
210328	B7	Roof Special	1	1		

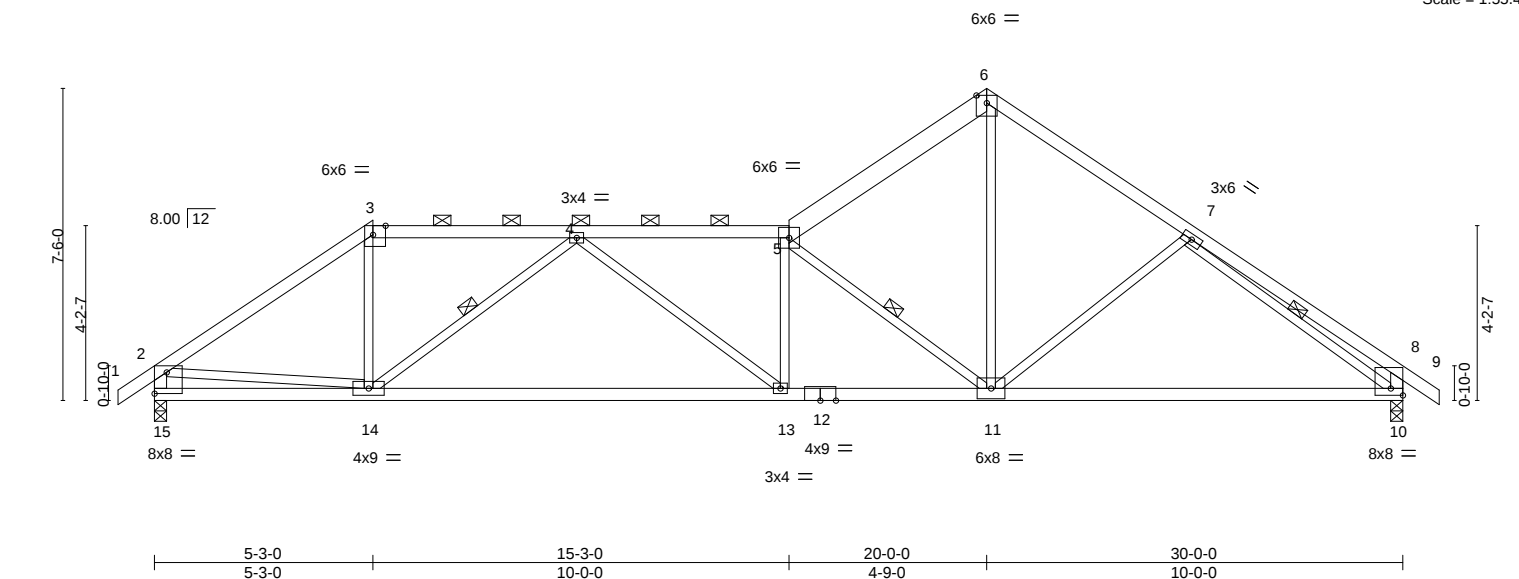
Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:29:59 2021 Page 1

ID:2ncXplsXOfbjIB617Q?gPMzrYWU-bdV7_Clcr4fvtch9SdK5E00xALvrxfrYnk3WHzcNaM

0-10-8 5-3-0 10-1-12 15-3-0 20-0-0 24-10-0 30-0-0 30-10-8
0-10-8 5-3-0 4-10-12 5-1-4 4-9-0 4-10-0 5-2-1 0-10-8

Scale = 1:55.4



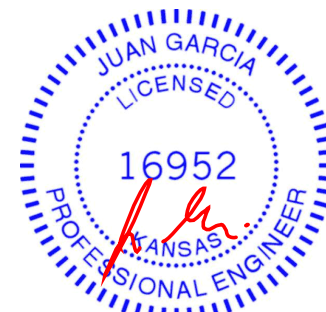
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.28 13-14 >999 360	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.61 13-14 >585 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.08 10 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.12 13 >999 240				

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 5-6: 2x6 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-8 max.): 3-5.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 9-3-4 oc bracing.
WEBS	2x3 SPF No.2 *Except* 2-15,8-10: 2x4 SPF No.2	WEBS	1 Row at midpt 4-14, 5-11, 7-10

REACTIONS.	
(size)	15=0-3-8, 10=0-3-8
Max Horz	15=-213(LC 6)
Max Uplift	15=-230(LC 8), 10=-142(LC 9)
Max Grav	15=1408(LC 1), 10=1408(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1868/270, 3-4=-1452/274, 4-5=-2564/373, 5-6=-1590/232, 6-7=-1608/267, 7-8=-620/115, 2-15=-1381/241, 8-10=-543/144
BOT CHORD	14-15=-252/439, 13-14=-379/2269, 11-13=-330/2566, 10-11=-129/1402
WEBS	3-14=-10/675, 4-14=-1039/191, 4-13=-16/384, 5-11=-1699/335, 6-11=-164/1327, 2-14=-56/1169, 7-10=-1237/201

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=230, 10=142.
 - 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 10,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128848
210328	B8	Roof Special	1	1		

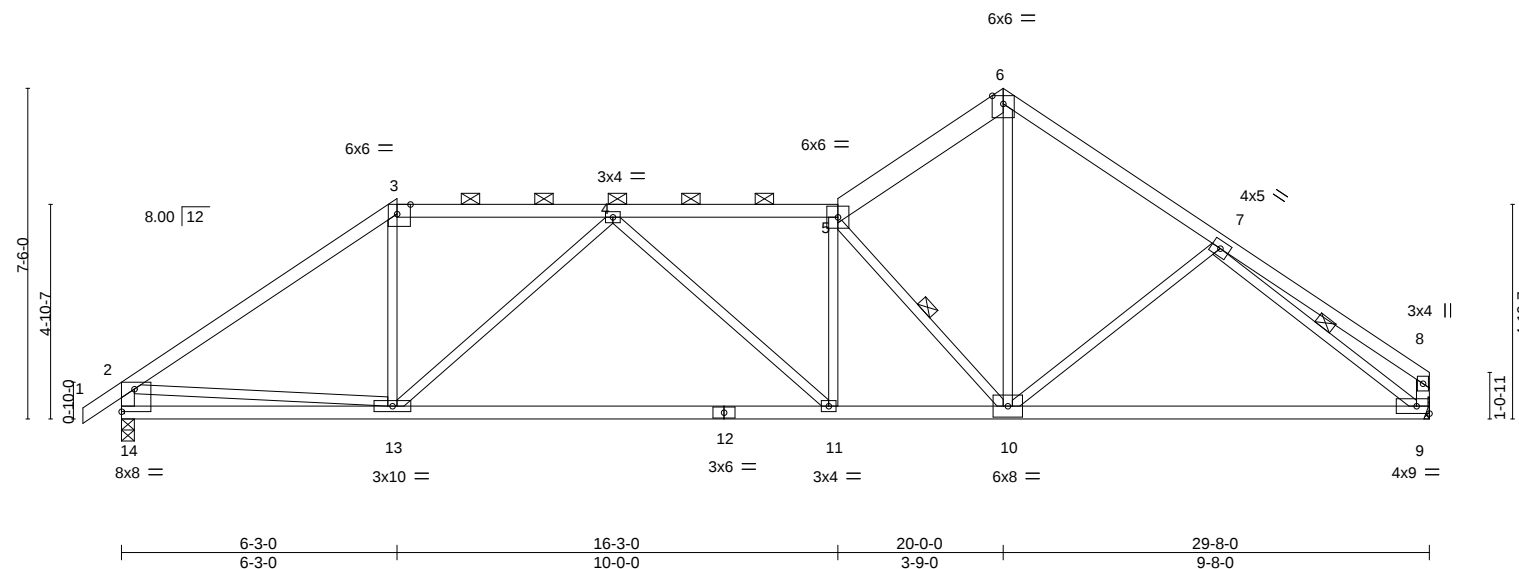
Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:29:59 2021 Page 1

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-bdV7_Clcr4fvtch9SdK5E00vtLvVxtiryNK3WHzcNaM

0-10-8	6-3-0	11-1-12	16-3-0	20-0-0	24-10-0	29-8-0
0-10-8	6-3-0	4-10-12	5-1-4	3-9-0	4-10-0	4-10-0

Scale = 1:52.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.26 11-13 >999	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.57 11-13 >619				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.07 9 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.09 11-13 >999			Weight: 120 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
5-6: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-14,8-9: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 9-10-14 oc bracing.
WEBS 1 Row at midpt 5-10, 7-9

REACTIONS.

(size) 14=0-3-8, 9=Mechanical
Max Horz 14=208(LC 5)
Max Uplift 14=228(LC 8), 9=121(LC 8)
Max Grav 14=1395(LC 1), 9=1321(LC 1)

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

TOP CHORD 2-3=-1839/273, 3-4=-1413/286, 4-5=-2131/326, 5-6=-1522/240, 6-7=-1561/263,
7-8=-370/53, 2-14=-1352/251, 8-9=-310/76
BOT CHORD 13-14=-325/566, 11-13=-331/1992, 10-11=-268/2131, 9-10=-133/1318
WEBS 3-13=0/612, 4-13=-788/168, 5-10=-1442/296, 6-10=-185/1313, 2-13=-96/990,
7-9=-1417/227

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=228, 9=121.
- 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 10, 2021

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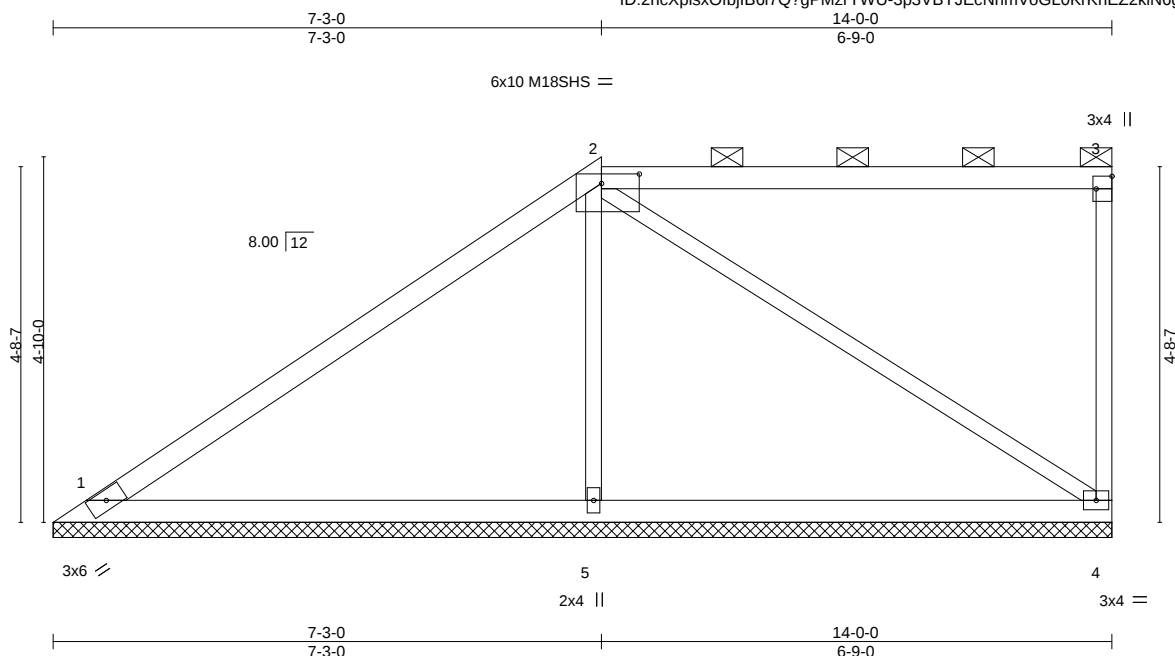
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss B9	Truss Type Half Hip	Qty 1	Ply 1	Lot 116 W0 I45128849
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:00 2021 Page 1

ID:2ncXplsXOfbjB6l7Q?gPMzrYWU-3p3VBYJECNmVoGL0KrKnEZ2klN6gVx?B13c3jzcNaL



Scale = 1:30.5

Plate Offsets (X,Y)--		[2:0-6-0,0-1-8], [3:Edge,0-2-8]											
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	0.70	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	n/a	-	n/a	999	M18SHS	197/144	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.00	4	n/a	n/a	Weight: 46 lb FT = 10%		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S									

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, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=14-0-0, 4=14-0-0, 5=14-0-0
Max Horz 1=175(LC 5)
Max Uplift 1=-52(LC 8), 4=-85(LC 5), 5=-54(LC 5)
Max Grav 1=310(LC 1), 4=314(LC 1), 5=583(LC 1)

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

WEBS 2-5=-402/148

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) The Fabrication Tolerance at joint 2 = 6%
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 10, 2021

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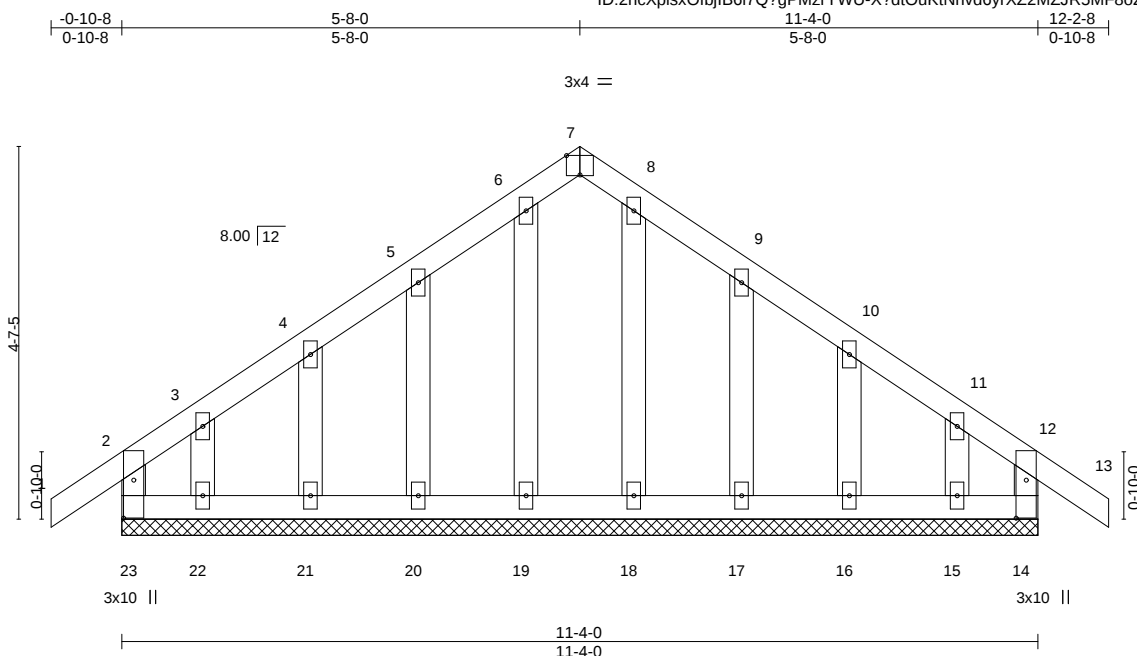
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss C1	Truss Type GABLE	Qty 1	Ply 1	Lot 116 W0 I45128850
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:01 2021 Page 1

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-X?dtOuKtNhvd6yrXZ2MZJR5MF8oZP?s8Qhp9b9zcNaK



Scale = 1:28.5

Plate Offsets (X,Y)-- [7:0-2-0,Edge], [14:0-5-10,0-1-8], [23:0-5-10,0-1-8]												
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)	-0.00	13	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 53 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.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

All bearings 11-4-0.
(lb) - Max Horz 23=137(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 23, 14, 22, 21, 20, 17, 16, 15
Max Grav All reactions 250 lb or less at joint(s) 23, 14, 22, 21, 20, 19, 18, 17, 16, 15

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 14, 22, 21, 20, 17, 16, 15.
- 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 10, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

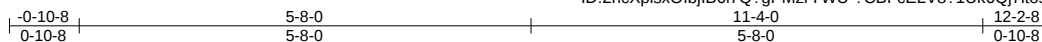


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128851
210328	C2	Common Girder	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:02 2021 Page 1
ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-?CBFcELV8?1Uk6Qj7ltosfeQcY0L8L3leLYj7czcNaJ



4x5 ||

Scale = 1:28.9

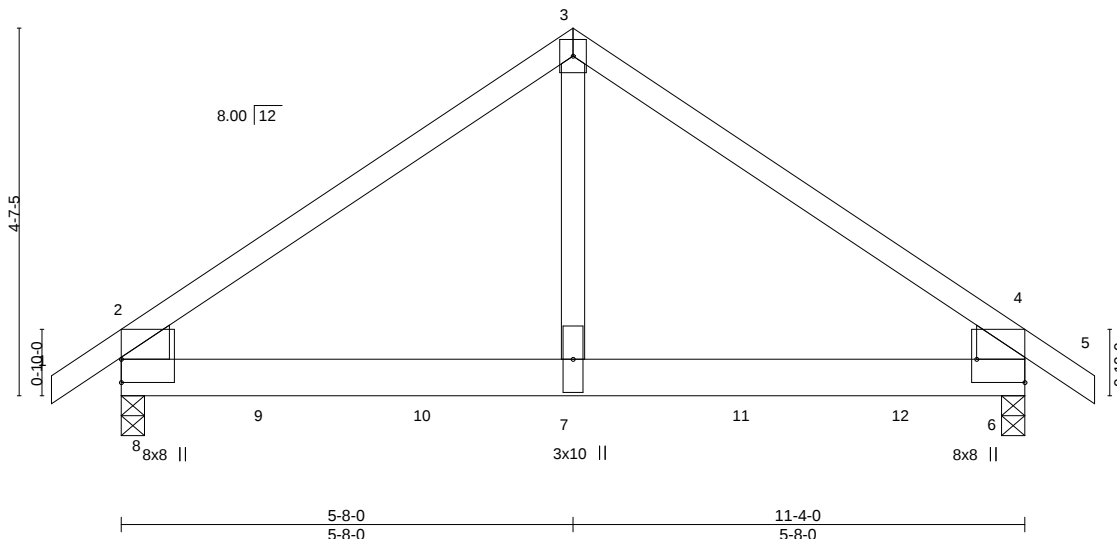


Plate Offsets (X,Y)-- [6:Edge,0-7-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.06	7-8	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.10	7-8	>999	240	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.01	6	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.03	7-8	>999	240	Weight: 104 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x8 SP 2400F 2.0E *Except*
3-7: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-9 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=-138(LC 6)
Max Uplift 8=-145(LC 8), 6=-148(LC 9)
Max Grav 8=3949(LC 2), 6=4125(LC 2)

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

TOP CHORD 2-3=-3784/158, 3-4=-3784/158, 2-8=-2336/174, 4-6=-2336/174
BOT CHORD 7-8=-49/3047, 6-7=-49/3047
WEBS 3-7=-41/3886

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, 2x8 - 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=145, 6=148.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1421 lb down and 34 lb up at 1-10-0, 1421 lb down and 34 lb up at 3-10-0, 1421 lb down and 34 lb up at 5-10-0, and 1421 lb down and 34 lb up at 7-10-0, and 1421 lb down and 34 lb up at 9-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



March 10, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0
210328	C2	Common Girder	1	2	I45128851

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:02 2021 Page 2
ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-?CBFcELV8?1Uk6Qj7ltosfeQcY0L8L3leLYj7czcNaJ

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=-1373(B) 9=-1373(B) 10=-1373(B) 11=-1373(B) 12=-1373(B)

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0
210328	D1	HIP GIRDER	1	2	I45128852

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 123 lb down and 102 lb up at 6-9-7, 125 lb down and 77 lb up at 8-9-7, 125 lb down and 77 lb up at 10-9-7, 125 lb down and 77 lb up at 12-9-7, 125 lb down and 77 lb up at 14-9-7, 125 lb down and 77 lb up at 16-9-8, 125 lb down and 77 lb up at 18-9-8, and 125 lb down and 77 lb up at 20-9-8, and 120 lb down and 77 lb up at 22-9-8 on top chord, and 368 lb down and 193 lb up at 6-4-5, 57 lb down and 32 lb up at 6-9-7, 60 lb down at 8-7-4, 60 lb down at 10-9-7, 60 lb down at 12-9-7, 60 lb down at 14-9-7, 60 lb down at 16-9-8, 60 lb down at 18-9-8, 60 lb down at 20-9-8, and 60 lb down at 22-9-8, and 357 lb down and 168 lb up at 23-2-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-7=-70, 7-9=-70, 2-16=-20, 3-14=-20, 8-13=-20

Concentrated Loads (lb)

Vert: 14=-45(F) 5=-93(F) 15=-424(F) 10=-357(F) 17=-82(F) 18=-93(F) 19=-93(F) 20=-93(F) 21=-93(F) 22=-93(F) 23=-93(F) 24=-93(F) 25=-45(F) 26=-45(F) 27=-45(F) 28=-45(F) 29=-45(F) 30=-45(F) 31=-45(F)

Job 210328	Truss D2	Truss Type Hip	Qty 1	Ply 1	Lot 116 W0 I45128853
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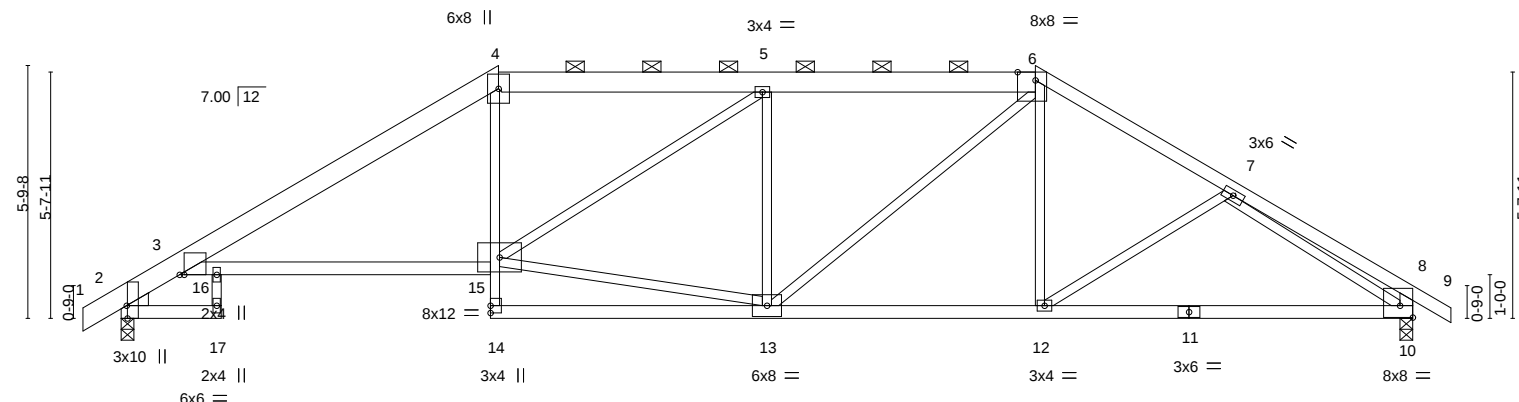
Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:06 2021 Page 1

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-uzQmSbO?BDXwDjVMbyk0Vo599LB43vtZzWwGNzcNaF

0-10-8	2-3-8	8-7-11	14-9-8	20-11-5	25-4-6	29-7-0	30-5-8
0-10-8	2-3-8	6-4-3	6-1-13	6-1-13	4-5-2	4-2-10	0-10-8

Scale = 1:52.8



2-3-8	8-5-8	14-9-8	20-11-5	29-7-0
2-3-8	6-2-0	6-4-0	6-1-13	8-7-11

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

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 0.64	Vert(LL)	-0.27 15-16	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.53 15-16	>664	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.30 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.21 15-16	>999	240	Weight: 135 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SP DSS *Except*
4-6: 2x6 SPF No.2, 6-9: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-15: 2x4 SPF 2100F 1.8E, 4-14: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
8-10: 2x4 SPF No.2
WEDGE
Left: 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 10=0-3-8
Max Horz 2=156(LC 7)
Max Uplift 2=-131(LC 8), 10=-131(LC 9)
Max Grav 2=1390(LC 1), 10=1390(LC 1)

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

TOP CHORD 2-3=-876/97, 3-4=-2344/196, 4-5=-1981/207, 5-6=-1875/177, 6-7=-1808/142,
7-8=-552/61, 8-10=-468/99
BOT CHORD 3-16=-227/2017, 15-16=-228/2021, 4-15=-28/563, 12-13=-51/1508, 10-12=-95/1579
WEBS 13-15=-191/1891, 5-13=-579/232, 6-13=-184/582, 6-12=0/295, 7-10=-1441/135

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=131, 10=131.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 10, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	145128854
210328	D3	Hip	1	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:07 2021 Page 1

ID:2ncXplsXOfbjIB6I7Q?gPMzrYVU-M9_8fxPdyXfnqtlhwJ7zZiLF4ZgApcJ1odGUopzcNaE

-0-10-8	4-10-0	10-11-2	18-7-14	24-9-0	29-7-0	30-5-8
0-10-8	4-10-0	6-1-2	7-8-11	6-1-2	4-10-0	0-10-8

Scale = 1:51.9

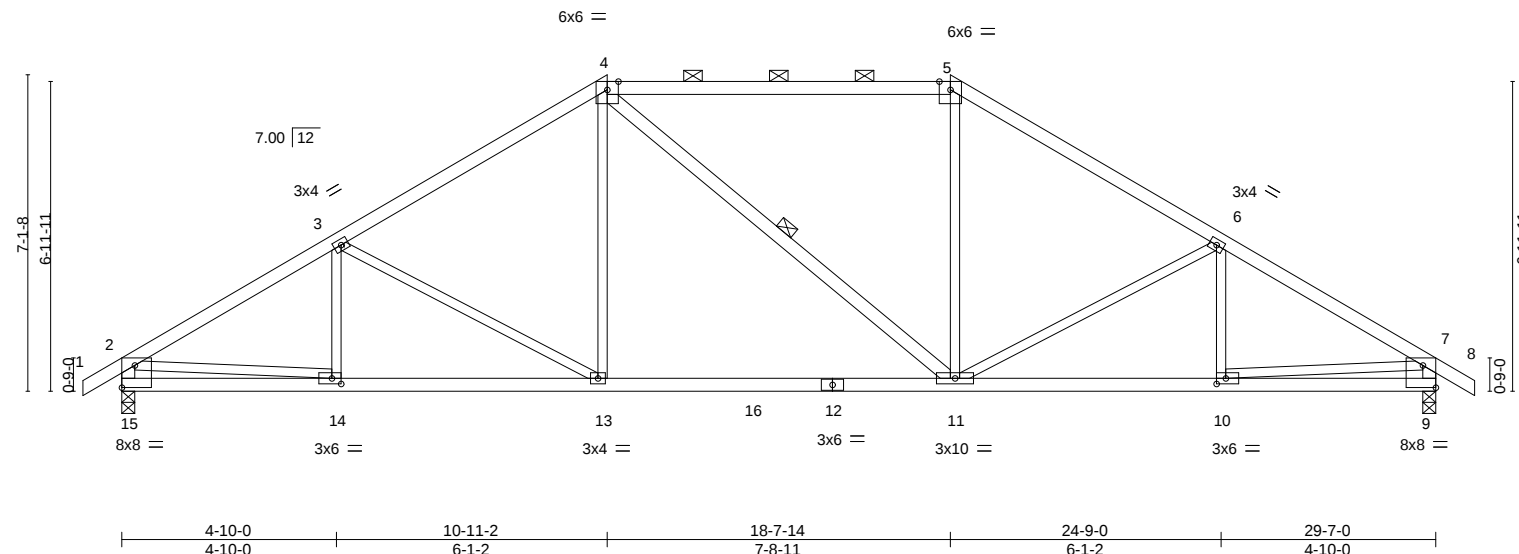


Plate Offsets (X,Y)--		[9:Edge,0-6-0], [10:0-2-8,0-1-8], [14:0-2-8,0-1-8], [15:Edge,0-6-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.69	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.16 11-13 >999 360
BCLL 0.0 *	Lumber DOL 1.15	WB 0.48	Vert(CT) -0.29 11-13 >999 240
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 9 n/a n/a
	Code IRC2018/TPI2014		Wind(LL) 0.05 13-14 >999 240
		PLATES GRIP	
		MT20 197/144	
		Weight: 120 lb FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
4-5: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-11,2-15,7-9: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-14 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11

REACTIONS.

(size) 15=0-3-8, 9=0-3-8
Max Horz 15=198(LC 7)
Max Uplift 15=153(LC 8), 9=153(LC 9)
Max Grav 15=1443(LC 2), 9=1435(LC 2)

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

TOP CHORD 2-3=-2063/199, 3-4=-1774/172, 4-5=-1445/200, 5-6=-1758/172, 6-7=-2051/199,
2-15=-1352/177, 7-9=-1345/177
BOT CHORD 14-15=-174/476, 13-14=-201/1798, 11-13=-83/1458, 10-11=-99/1712, 9-10=-43/343
WEBS 3-13=-409/190, 4-13=-3/505, 5-11=0/466, 6-11=-412/190, 2-14=-64/1386,
7-10=-56/1378

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=153, 9=153.
- 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 10,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss D4	Truss Type Hip	Qty 1	Ply 1	Lot 116 W0 I45128855
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:08 2021 Page 1

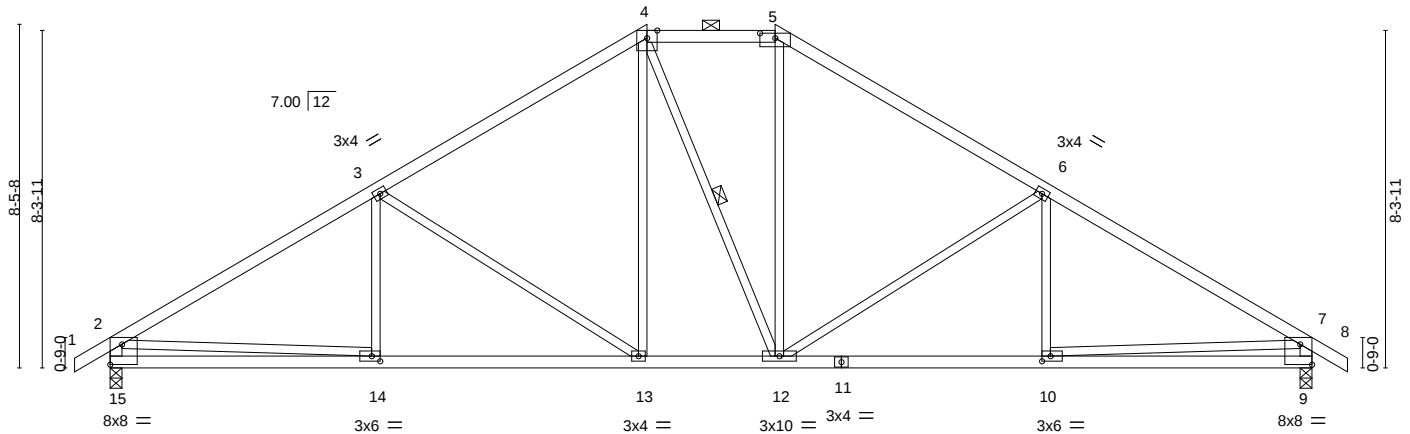
ID:2ncXplsXOfbjB6l7Q?gPMzrYWU-qMYWshPGjrdS1ttU0_C5wuRZz45Y_HA1H?1LFzcNaD

0-10-8 6-6-8 13-2-9 16-4-7 23-0-8 29-7-0 30-5-8
0-10-8 6-6-8 6-8-1 3-1-14 6-8-1 6-6-8 0-10-8

6x6 =

4x9 =

Scale = 1:56.7



6-6-8 13-2-9 16-4-7 23-0-8 29-7-0
6-6-8 6-8-1 3-1-14 6-8-1 6-6-8

Plate Offsets (X,Y)-- [5:0-4-8,0-1-7], [9:Edge,0-6-0], [10:0-2-8,0-1-8], [14:0-2-8,0-1-8], [15:Edge,0-6-0]

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 0.58	Vert(LL)	-0.08 13-14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.18 13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.05 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05 13-14	>999	240	Weight: 124 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-15,7-9: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-5 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-12

REACTIONS.

(size) 15=0-3-8, 9=0-3-8
Max Horz 15=233(LC 7)
Max Uplift 15=-171(LC 8), 9=-171(LC 9)
Max Grav 15=1390(LC 1), 9=1390(LC 1)

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

TOP CHORD 2-3=-1985/221, 3-4=-1512/204, 4-5=-1196/229, 5-6=-1513/204, 6-7=-1985/221,
2-15=-1325/205, 7-9=-1324/205
BOT CHORD 14-15=-250/637, 13-14=-216/1620, 12-13=-32/1195, 10-12=-90/1620, 9-10=-135/506
WEBS 3-13=-544/218, 4-13=-62/389, 5-12=-52/379, 6-12=-541/218, 2-14=0/1120, 7-10=0/1118

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=171, 9=171.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 10, 2021

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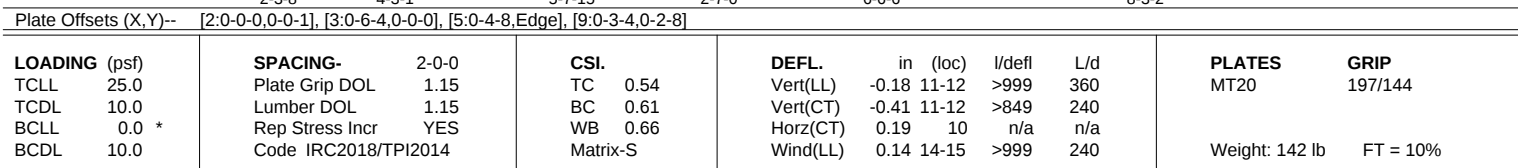
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Wheeler Lumber, Waverly, KS - 66871, 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:09 2021 Page 1
 ID:2ncXpIsOfbjB6l7Q?gPMzrYWU-YY6v4dQuU8vU4BS41jvRe7QduNNQHSSkFxlbtizcNaC
 0-10-8 2-3-8 6-6-9 12-2-8 14-9-8 21-3-14 29-7-0
 0-10-8 2-3-8 4-3-1 5-7-15 2-7-0 6-6-6 8-3-2



REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=248(LC 7)
 Max Uplift 2=-181(LC 8), 10=-156(LC 9)
 Max Grav 2=1387(LC 1), 10=1313(LC 1)

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

TOP CHORD 2-3=-892/166, 3-4=-2567/333, 4-6=-1784/254, 6-7=-1653/347, 7-8=-1912/427,
 8-9=-1929/220, 9-10=-1238/198

BOT CHORD 3-15=-363/2248, 14-15=-363/2248, 13-14=-363/2249, 10-11=-152/541

WEBS 4-14=0/315, 4-13=-982/287, 11-13=-56/1029, 7-13=-233/922, 7-11=-301/760,
 8-11=-582/351, 9-11=-27/1013

- 
- A circular professional engineer seal for the State of Missouri. The outer ring contains the text "STATE OF MISSOURI" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The center of the seal contains the name "JUAN GARCIA" and the license number "NUMBER E-2000162101". There are decorative horizontal lines above and below the name.



Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128857
210328	E1	Roof Special Girder	1	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:10 2021 Page 1

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-mkfHHzRWFS1LhL1Gbr0gBLzjingG0uETUbU8P8zcNaB

0-10-8 2-3-8 6-6-9 12-2-8 14-9-8 21-3-14 27-9-9 29-9-9 31-7-0 32-5-8

0-10-8 2-3-8 4-3-1 5-7-15 2-7-0 6-6-6 6-5-12 2-0-0 1-9-7 0-10-8

6x8 ||

7.00 |12

2x4 ||

6x8 ||

2x4 ||

5x12 = 4x5 =

4x9 =

2x4 ||

7x12 =

3x6 ||

5x12 =

2x4 ||

4x9 =

8x8 =

Scale = 1:65.3

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.18 16-17 >999 360	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.43 16-17 >875 240				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.22 13 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.12 18-19 >999 240				
								Weight: 163 lb		FT = 10%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 5-7: 2x6 SPF No.2, 1-5: 2x8 SP DSS	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-8-6 max.): 9-10.
BOT CHORD	2x4 SPF No.2 *Except* 6-17: 2x3 SPF No.2, 13-17: 2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x3 SPF No.2 *Except* 7-16,11-13: 2x4 SPF No.2	WEBS	1 Row at midpt 4-18, 9-16

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=252(LC 7)
Max Uplift 2=179(LC 8), 13=213(LC 9)
Max Grav 2=1493(LC 1), 13=1476(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-887/192, 3-4=-2751/335, 4-6=-2004/263, 6-7=-1864/359, 7-8=-2303/462, 8-9=-2294/277, 9-10=-1521/224, 10-11=-1752/239, 11-13=-1424/221
BOT CHORD 3-19=-364/2481, 18-19=-362/2481, 15-16=-358/3024, 14-15=-354/3027
WEBS 4-18=-1019/281, 16-18=-62/1218, 7-18=-230/965, 7-16=-326/1019, 8-16=-518/308, 9-16=-1151/262, 9-14=-1914/243, 10-14=-139/815, 11-14=-154/1358

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179, 13=213.
- 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) 131 lb down and 68 lb up at 29-9-9 on top chord, and 12 lb down and 10 lb up at 29-8-13 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

March 10,2021

Continued on page 2

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

MiTek®

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0
210328	E1	Roof Special Girder	1	1	I45128857
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:10 2021 Page 2
ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-mkfHHZRWFS1LhL1GbR0gBLzjingG0uETUbU8P8zcNaB

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-70, 7-9=-70, 9-10=-70, 10-11=-70, 11-12=-70, 2-20=-20, 3-18=-20, 13-17=-20
Concentrated Loads (lb)
Vert: 14=4(F)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128858
210328	E2	Roof Special	1	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:12 2021 Page 1

ID:2ncXplsXOfbJlB617Q?gPMzrYWU-i7n1ieSmn3H3xeBejs28Gm27faMQUlwmxvzFU1zcNa9

0-10-8 2-3-8 8-3-2 14-9-8 17-6-0 20-7-8 25-6-2 27-6-2 31-7-0 32-5-8
0-10-8 2-3-8 5-11-10 6-6-6 2-8-8 3-1-8 4-10-10 2-0-0 4-0-14 0-10-8

Scale = 1:61.1

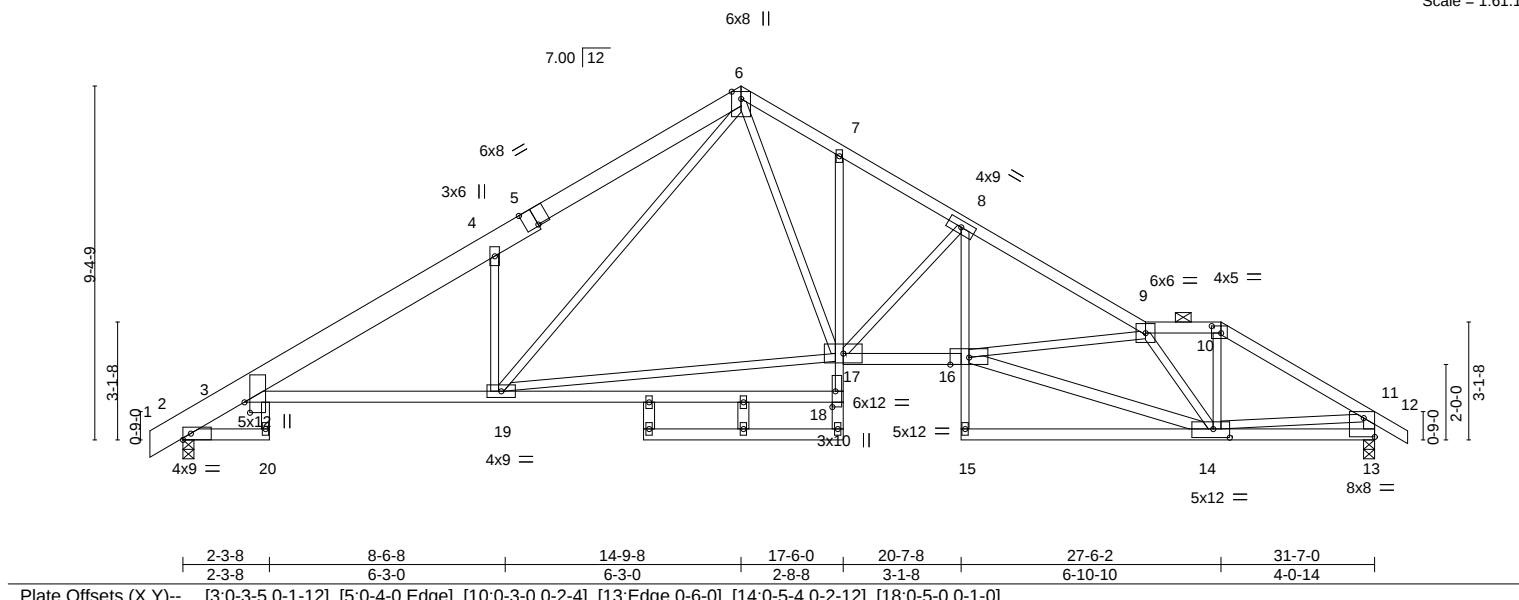


Plate Offsets (X,Y)--		[3:0-3-5,0-1-12], [5:0-4-0,Edge], [10:0-3-0,0-2-4], [13:Edge,0-6-0], [14:0-5-4,0-2-12], [18:0-5-0,0-1-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.24 18-19 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.79	Vert(CT) -0.57 18-19 >661 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.33 13 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.16 3-19 >999 240	Weight: 174 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
5-6: 2x6 SPF No.2, 1-5: 2x8 SP DSS
BOT CHORD 2x4 SPF No.2 *Except*
7-18,8-15: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
14-16,11-13,21-23,18-22,24-25: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-5-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-10 max.): 9-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-20.

REACTIONS.

(size) 2=0-3-8, 13=0-3-8
Max Horz 2=252(LC 7)
Max Uplift 2=178(LC 8), 13=203(LC 9)
Max Grav 2=1493(LC 1), 13=1480(LC 1)

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

TOP CHORD 2-3=-886/191, 3-4=-2524/283, 4-6=-2689/508, 6-7=-2263/336, 7-8=-2342/272,
8-9=-3378/341, 9-10=-1866/260, 10-11=-2103/256, 11-13=-1430/218
BOT CHORD 3-19=-287/2216, 16-17=-120/2877, 8-16=-68/1179, 13-14=-87/343
WEBS 4-19=-880/395, 6-19=-348/1148, 6-17=-209/1339, 8-17=-1347/238, 14-16=-301/3023,
9-14=-2152/268, 10-14=-51/855, 11-14=-58/1407, 17-19=-81/1358

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.
- 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=178, 13=203.
- 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 10,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128859
210328	E3	Roof Special	1	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:14 2021 Page 1

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-fWvn7KU1JhXnAyL1qH5cLB8S_O2vyeI3PDSL1YvzcNa7

0-10-8 2-3-8 8-3-2 14-9-8 17-6-0 20-7-8 23-2-11 25-2-11 31-7-0 32-5-8
0-10-8 2-3-8 5-11-10 6-6-6 2-8-8 3-1-8 2-7-3 2-0-0 6-4-5 0-10-8

Scale = 1:61.1

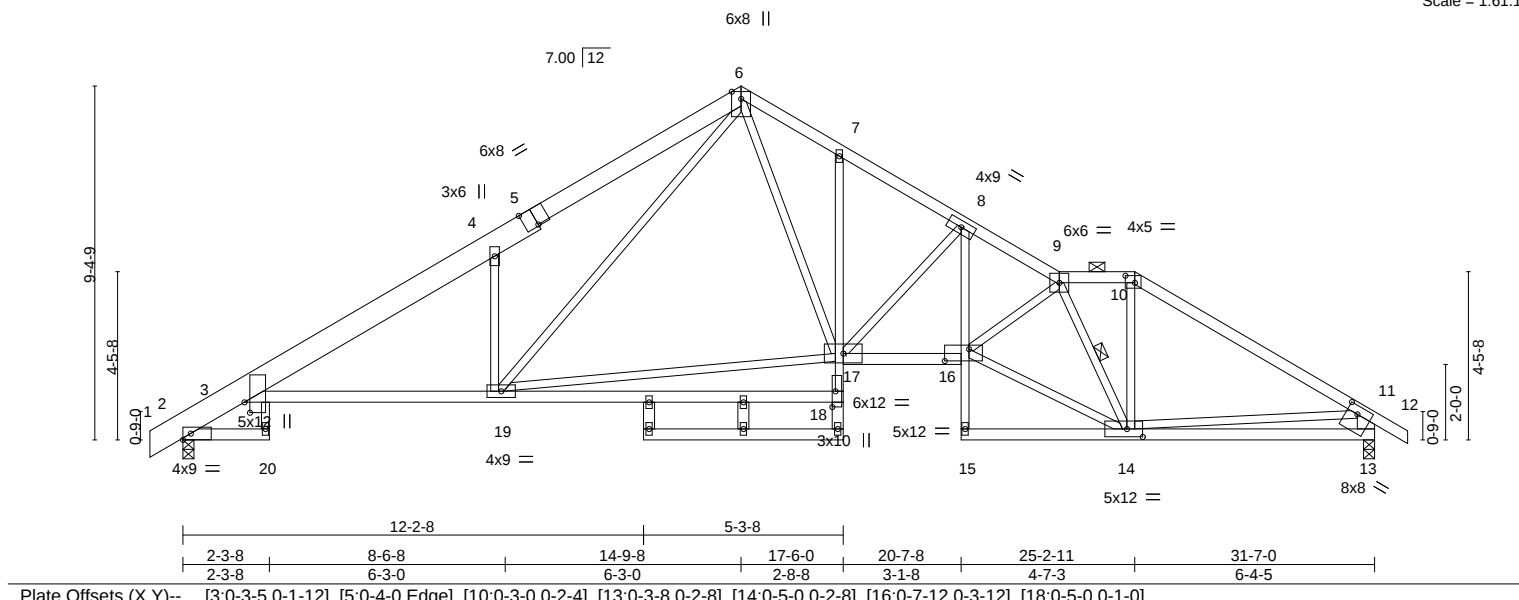


Plate Offsets (X,Y)--		[3:0-3-5,0-1-12], [5:0-4-0,Edge], [10:0-3-0,0-2-4], [13:0-3-8,0-2-8], [14:0-5-0,0-2-8], [16:0-7-12,0-3-12], [18:0-5-0,0-1-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.24 18-19 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.57 18-19 >661 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.34 13 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.16 3-19 >999 240	Weight: 173 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
5-6: 2x6 SPF No.2, 1-5: 2x8 SP DSS
BOT CHORD 2x4 SPF No.2 *Except*
7-18,8-15: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
11-13: 2x6 SPF No.2, 21-23,18-22,24-25: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-1 max.): 9-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-20.
WEBS 1 Row at midpt 9-14

REACTIONS.

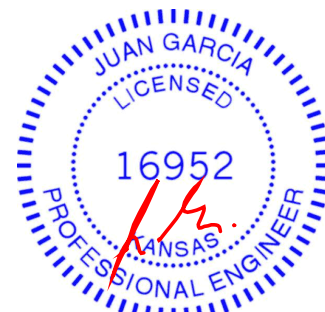
(size) 2=0-3-8, 13=0-3-8
Max Horz 2=253(LC 7)
Max Uplift 2=177(LC 8), 13=204(LC 9)
Max Grav 2=1489(LC 1), 13=1483(LC 1)

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

TOP CHORD 2-3=-884/190, 3-4=-2516/283, 4-6=-2681/507, 6-7=-2265/339, 7-8=-2320/268,
8-9=-3343/345, 9-10=-1734/273, 10-11=-2083/260, 11-13=-1413/241
BOT CHORD 3-19=-285/2208, 16-17=-113/2893, 8-16=-103/1290, 13-14=-192/581
WEBS 4-19=-880/395, 6-19=-348/1149, 6-17=-213/1335, 8-17=-1378/221, 14-16=-189/2831,
9-16=-6/418, 9-14=-2136/154, 10-14=-13/671, 11-14=0/1112, 17-19=-80/1349

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.
- 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=177, 13=204.
- 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 10,2021

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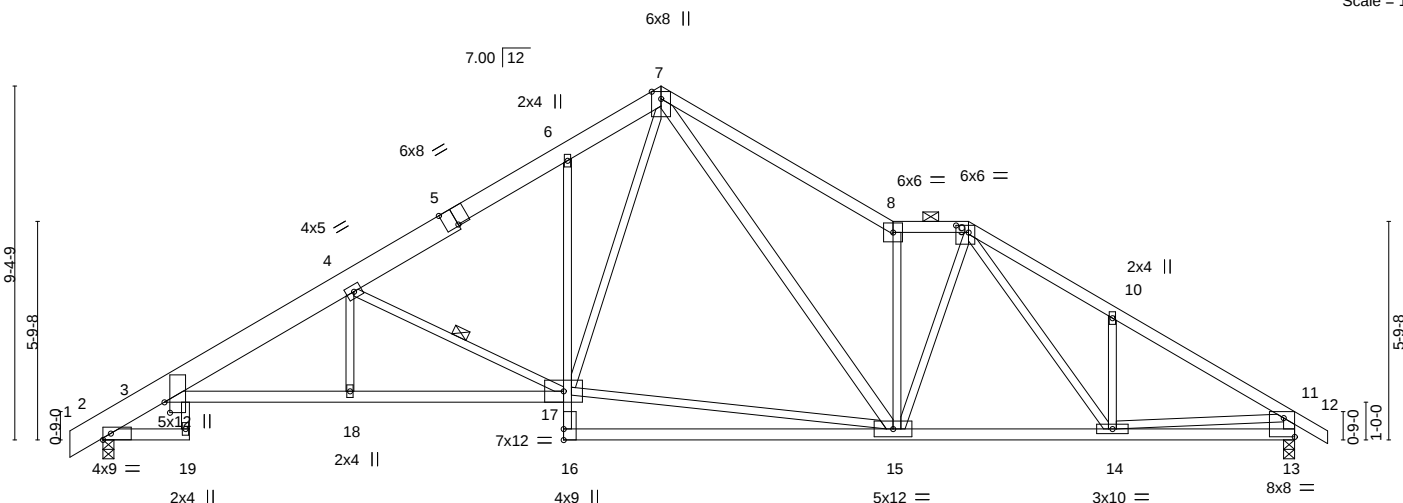
16023 Swingley Ridge Rd
Chesterfield, MO 63017

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:15 2021 Page 1

ID:2ncXpIsxOfbi|B6|7O?gPMzrYWU-7iTAKgVf4 geo6vDO cruOgaVoOch55CetCv4MzcNa6

0-10-8	2-3-8	6-6-9	12-2-8	14-9-8	20-11-5	22-11-5	26-9-1	31-7-0	32-5-8
0-10-8	2-3-8	4-3-1	5-7-15	2-7-0	6-1-13	2-0-0	3-9-12	4-9-15	0-10-8

Scale = 1:61.1



2-3-8	6-6-9	12-2-8	20-11-5	26-9-1	31-7-0
2-3-8	4-3-1	5-7-15	8-8-13	5-9-12	4-9-15

Plate Offsets (X,Y)-- [3:0-3-5,0-1-12], [5:0-4-0,Edge], [9:0-4-0,0-2-4], [13:Edge,0-6-0]												
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	0.79	Vert(LL)	-0.20	15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.46	15-16	>814	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.21	13	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.12	17-18	>999	240	Weight: 168 lb	FT = 10%

LUMBER-

TOP CHORD	2x4 SPF No.2 *Except*
	5-7: 2x6 SPF No.2, 1-5: 2x8 SP DSS
BOT CHORD	2x4 SPF No.2 *Except*
	6-16: 2x3 SPF No.2
WEBS	2x3 SPF No.2 *Except*
	7-15,11-13: 2x4 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-9 max.): 8-9.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 4-17

REACTIONS.

(size) 2=0-3-8, 13=0-3-8
Max Horz 2=252(LC 7)
Max Uplift 2=-178(LC 8), 13=-203(LC 9)
Max Grav 2=1493(LC 1), 13=1480(LC 1)

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

TOP CHORD 2-3=-886/191, 3-4=-2752/332, 4-6=-2005/260, 6-7=-1860/354, 7-8=-2198/424,
8-9=-1821/282, 9-10=-2087/393, 10-11=-2107/272, 11-13=-1421/228

BOT CHORD 3-18=-361/2482, 17-18=-359/2482, 14-15=-62/1591, 13-14=-91/401

WEBS 4-17=-1019/281, 15-17=-62/1222, 7-17=-226/956, 7-15=-285/914, 8-15=-1334/339,
9-15=-59/669, 9-14=-160/313, 10-14=-304/196, 11-14=-63/1346

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=178, 13=203.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 10.2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss E5	Truss Type Roof Special	Qty 1	Ply 1	Lot 116 W0 I45128861
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Wheeler Lumber, Waverly, KS - 66871,

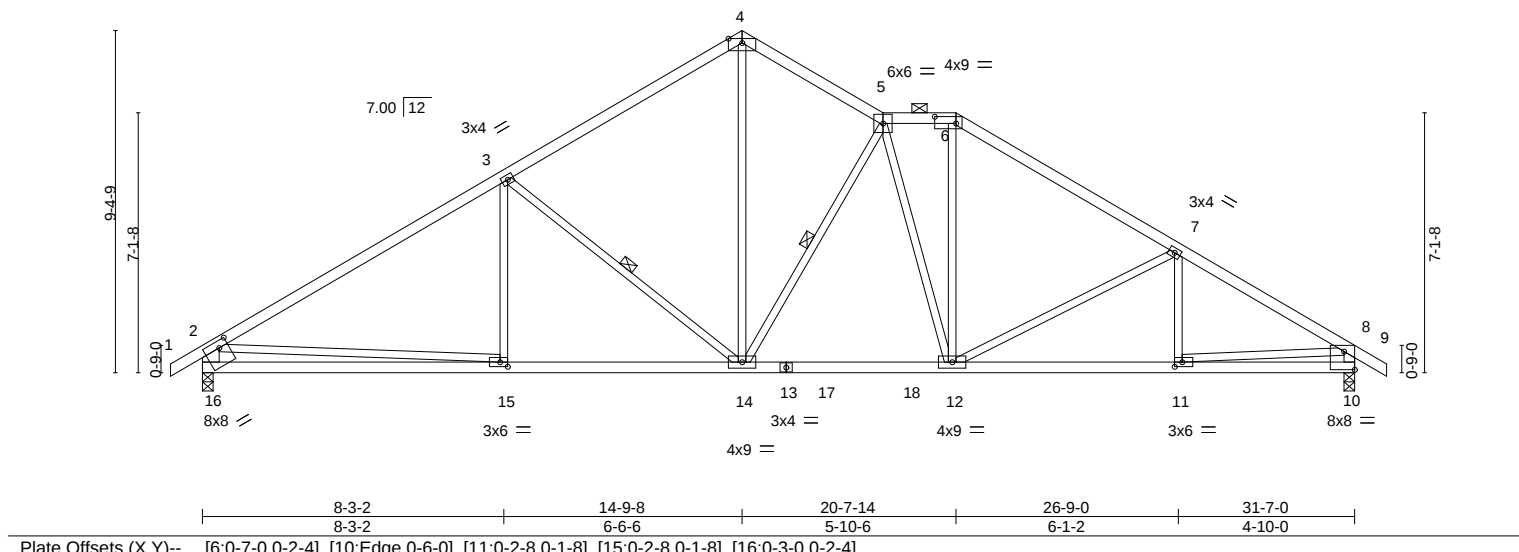
8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:16 2021 Page 1

ID:2ncXplsXOfbjiB6l7Q?gPMzrYWU-bu1YY0WHrIoVQGUGYi74QcDIUBltQftMsXsSdozcNa5

0-10-8 8-3-2 14-9-8 18-7-14 20-7-14 26-9-0 31-7-0 32-5-8
0-10-8 8-3-2 6-6-6 3-10-6 2-0-0 6-1-2 4-10-0 0-10-8

4x9 =

Scale = 1:63.2



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 0.78	Vert(LL)	-0.13 12-14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.25 15-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.07 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07 12	>999	240	Weight: 134 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-16: 2x6 SPF No.2, 8-10: 2x4 SPF 2400F 2.0E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-9 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 9-4-3 oc bracing.
WEBS 1 Row at midpt 3-14, 5-14

REACTIONS.

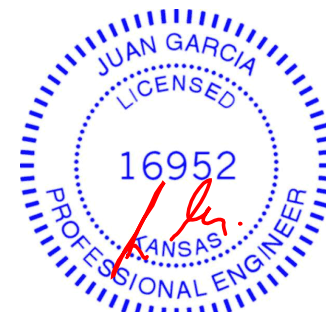
(size) 16=0-3-8, 10=0-3-8
Max Horz 16=-260(LC 6)
Max Uplift 16=-187(LC 8), 10=-203(LC 9)
Max Grav 16=1589(LC 15), 10=1568(LC 16)

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

TOP CHORD 2-3=-2179/234, 3-4=-1590/270, 4-5=-1539/261, 5-6=-1565/280, 6-7=-1887/265,
7-8=-2245/280, 2-16=-1454/233, 8-10=-1483/224
BOT CHORD 15-16=-387/1038, 14-15=-214/1931, 12-14=-54/1683, 11-12=-168/1854, 10-11=-57/362
WEBS 3-15=0/267, 3-14=-705/238, 4-14=-159/1191, 5-14=-751/225, 5-12=-302/93,
6-12=-36/661, 7-12=-433/179, 2-15=0/1033, 8-11=-111/1509

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=187, 10=203.
- 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 10, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss E6	Truss Type Roof Special	Qty 1	Ply 1	Lot 116 W0 Job Reference (optional)	I45128862
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Wheeler Lumber, Waverly, KS - 66871,

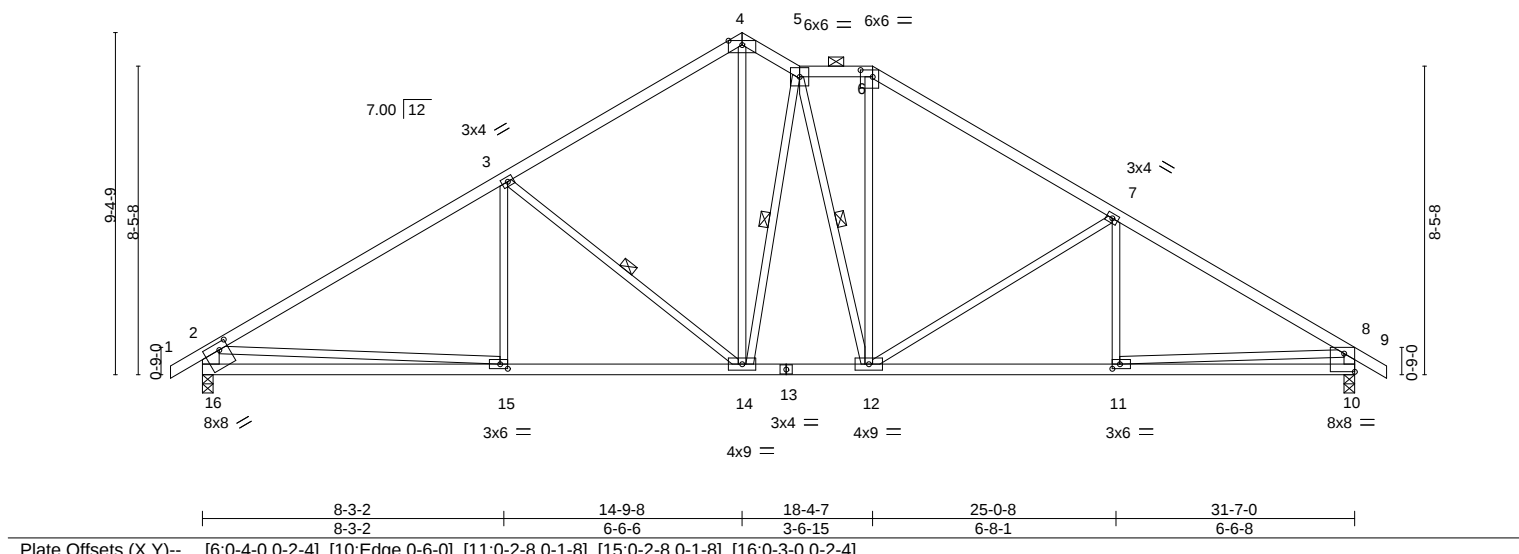
8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:17 2021 Page 1

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-34bwMMWvbcwM1P3cVPeJzpmwBb6o91wV5Bh09EzcNa4

0-10-8 8-3-2 14-9-8 16-4-7 18-4-7 25-0-8 31-7-0 32-5-8
0-10-8 8-3-2 6-6-6 1-6-15 2-0-0 6-8-1 6-6-8 0-10-8

4x9 =

Scale = 1:63.2



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 0.78	Vert(LL)	-0.11 15-16	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.24 15-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(CT)	0.06 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07 11-12	>999	240	Weight: 139 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-16: 2x6 SPF No.2, 8-10: 2x4 SPF 2400F 2.0E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-4 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 9-4-1 oc bracing.
WEBS 1 Row at midpt 3-14, 5-14, 5-12

REACTIONS.

(size) 16=0-3-8, 10=0-3-8
Max Horz 16=-260(LC 6)
Max Uplift 16=-187(LC 8), 10=-203(LC 9)
Max Grav 16=1482(LC 1), 10=1476(LC 1)

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

TOP CHORD 2-3=-2075/233, 3-4=-1540/272, 4-5=-1367/266, 5-6=-1327/280, 6-7=-1659/261,
7-8=-2135/276, 2-16=-1404/233, 8-10=-1411/236
BOT CHORD 15-16=-389/936, 14-15=-214/1666, 12-14=-34/1328, 11-12=-137/1748, 10-11=-146/536
WEBS 3-15=0/275, 3-14=-614/235, 4-14=-182/1028, 5-14=-634/205, 6-12=-33/386,
7-12=-543/215, 2-15=0/896, 8-11=-10/1216

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=187, 10=203.
- 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 10, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128863
210328	E7	Hip	1	1		

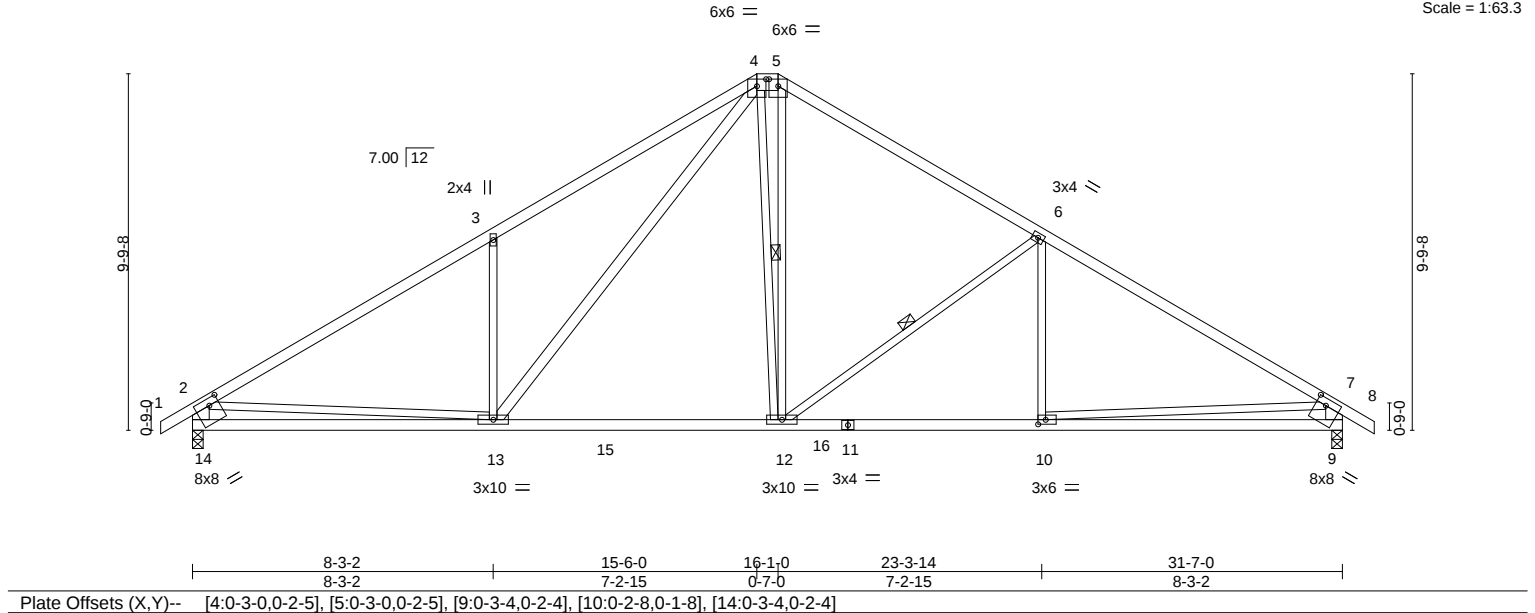
Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:18 2021 Page 1

ID:2ncXplsXOfbjiB6I7Q?gPMzrYWU-XH8IziXXMv2DfZeo369YV1I6K?QKuVYeKrQZhgzcNa3

0-10-8 8-3-2 15-6-0 16-1-0 23-3-14 31-7-0 32-5-8
0-10-8 8-3-2 7-2-15 0-7-0 7-2-15 8-3-2 0-10-8

Scale = 1:63.3



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 0.75	Vert(LL)	-0.20 12-13	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.32 12-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.06 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.06 13	>999	240	Weight: 138 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*
4-13: 2x4 SPF No.2, 2-14,7-9: 2x6 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 9-4-6 oc bracing.
WEBS 1 Row at midpt 4-12, 6-12

REACTIONS. (size) 14=0-3-8, 9=0-3-8
Max Horz 14=-271(LC 6)
Max Uplift 14=-191(LC 8), 9=-191(LC 9)
Max Grav 14=1609(LC 15), 9=1599(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2230/240, 3-4=-2289/461, 4-5=-1285/258, 5-6=-1604/253, 6-7=-2201/244,
2-14=-1482/235, 7-9=-1463/237
BOT CHORD 13-14=-389/1012, 12-13=-29/1354, 10-12=-81/1770, 9-10=-245/841
WEBS 3-13=-579/351, 4-13=-327/1041, 4-12=-200/418, 5-12=-123/579, 6-12=-726/251,
6-10=0/268, 2-13=0/1119, 7-10=0/1090

- 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=191, 9=191.
 - 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 10, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss E8	Truss Type Common	Qty 1	Ply 1	Lot 116 W0 I45128864
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:20 2021 Page 1

ID:2ncXplsXOfbjlB6I7Q?gPMzrYWU-TfG3ONZnuXlwutoBBXC0bSOSzp6_MSPxn9vgmZzcNa1

0-10-8 8-3-2 15-9-8 23-3-14 31-7-0 32-5-8
0-10-8 8-3-2 7-6-6 7-6-6 8-3-2 0-10-8

4x9 =

Scale = 1:61.7

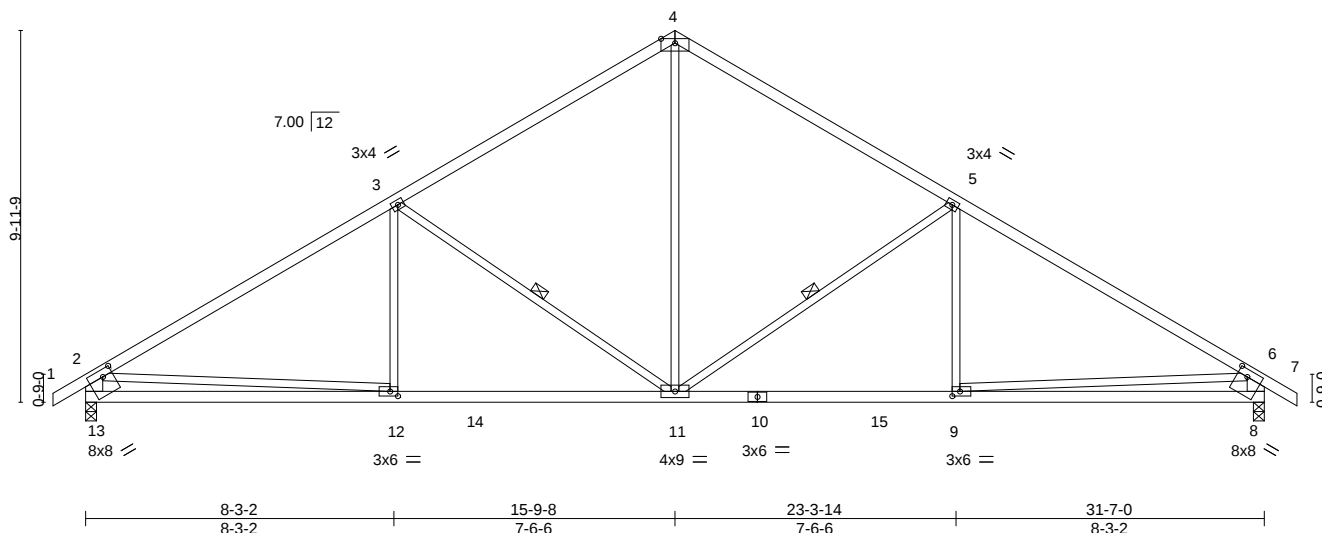


Plate Offsets (X,Y)--		[8:0-3-4,0-2-4], [9:0-2-8,0-1-8], [12:0-2-8,0-1-8], [13:0-3-4,0-2-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15		TC 0.74		Vert(LL) -0.14 11-12 >999 360				MT20 197/144	
TCDL	10.0	Lumber DOL 1.15		BC 0.74		Vert(CT) -0.24 11-12 >999 240					
BCLL	0.0 *	Rep Stress Incr YES		WB 0.61		Horz(CT) 0.06 8 n/a n/a					
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL) 0.06 11-12 >999 240				Weight: 125 lb FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-13,6-8: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-14 oc bracing.
WEBS 1 Row at midpt 5-11, 3-11

REACTIONS.

(size) 13=0-3-8, 8=0-3-8
Max Horz 13=-276(LC 6)
Max Uplift 13=-192(LC 8), 8=-192(LC 9)
Max Grav 13=1608(LC 15), 8=1608(LC 16)

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

TOP CHORD 2-3=-2226/247, 3-4=-1574/262, 4-5=-1574/262, 5-6=-2226/247, 2-13=-1477/238, 6-8=-1477/237
BOT CHORD 12-13=-377/1006, 11-12=-238/1988, 9-11=-86/1795, 8-9=-237/816
WEBS 4-11=-94/1046, 5-11=-798/261, 5-9=0/312, 3-11=-799/262, 3-12=0/312, 2-12=0/1111, 6-9=0/1128

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=192, 8=192.
- 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 10,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	145128865
210328	E9	Roof Special	5	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:22 2021 Page 1

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-Q2Opp3a2Q8Ye8ByZlyUgtToYclfluEFTOnqSzcNa?

Job Reference (optional)

0-10-8	8-3-2	15-9-8	19-4-8	25-0-7	28-7-14	31-3-14
0-10-8	8-3-2	7-6-6	3-7-0	5-7-15	3-7-7	2-8-0

6x6 ||

Scale = 1:66.8

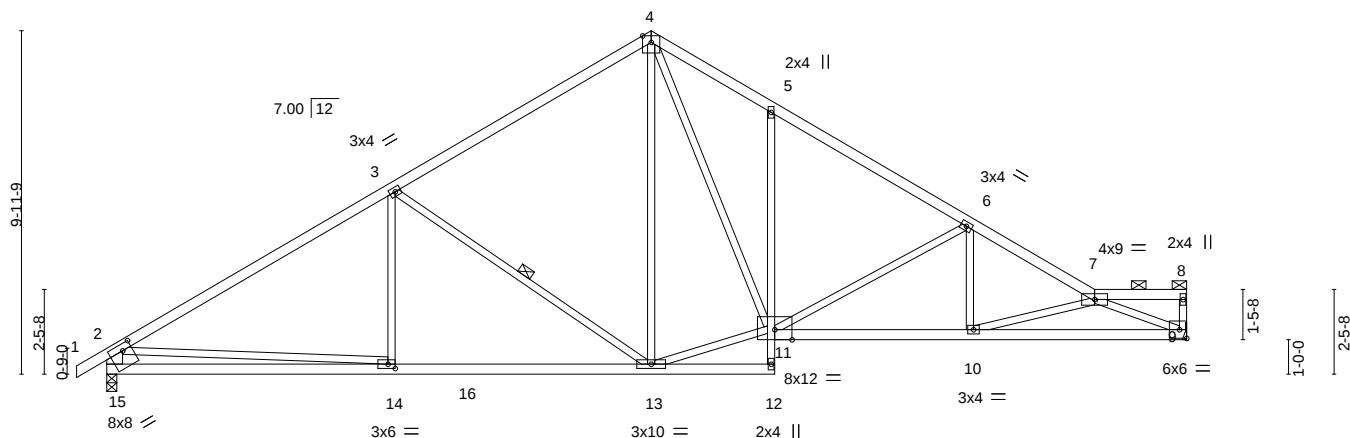


Plate Offsets (X,Y)--	[14:0-2-8,0-1-8], [15:0-3-4,0-2-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.17 10-11	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.31 10-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.10 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07 10-11	>999	240	Weight: 133 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 5-12: 2x3 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-15: 2x6 SPF No.2

BRACING-

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.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 12-13.
 WEBS 1 Row at midpt 3-13

REACTIONS.

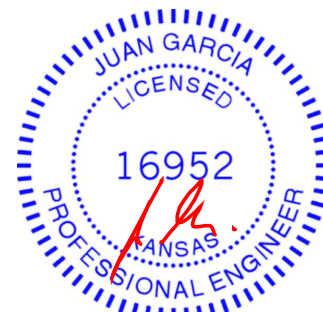
(size) 9=Mechanical, 15=0-3-8
 Max Horz 15=222(LC 5)
 Max Uplift 9=-14(LC 9), 15=-24(LC 8)
 Max Grav 9=1450(LC 14), 15=1591(LC 13)

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

TOP CHORD 2-3=-2208/39, 3-4=-1542/91, 4-5=-1984/135, 5-6=-2008/52, 6-7=-2708/20, 2-15=-1461/69
 BOT CHORD 14-15=-221/935, 13-14=-54/1923, 5-11=-340/128, 10-11=0/2301, 9-10=-52/2859
 WEBS 3-14=0/322, 3-13=-793/128, 4-13=-18/348, 11-13=0/1313, 4-11=-99/1241, 6-11=-814/75, 6-10=0/410, 7-10=-594/61, 7-9=-3066/64, 2-14=0/1098

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, 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) 9, 15.
- 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 10, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128866
210328	G1	Hip	1	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:23 2021 Page 1

ID:2ncXplsXOfbjiB6l7Q?gPMzrYWU-uEyB0PbgBSgVlKXmsgljC40z709xZrVOT68KNuzcNa_

0-10-8 8-3-2 15-6-0 16-1-0 23-3-14 31-7-0 32-5-8
0-10-8 8-3-2 7-2-15 0-7-0 7-2-15 8-3-2 0-10-8

10x16 =

Scale = 1:66.0

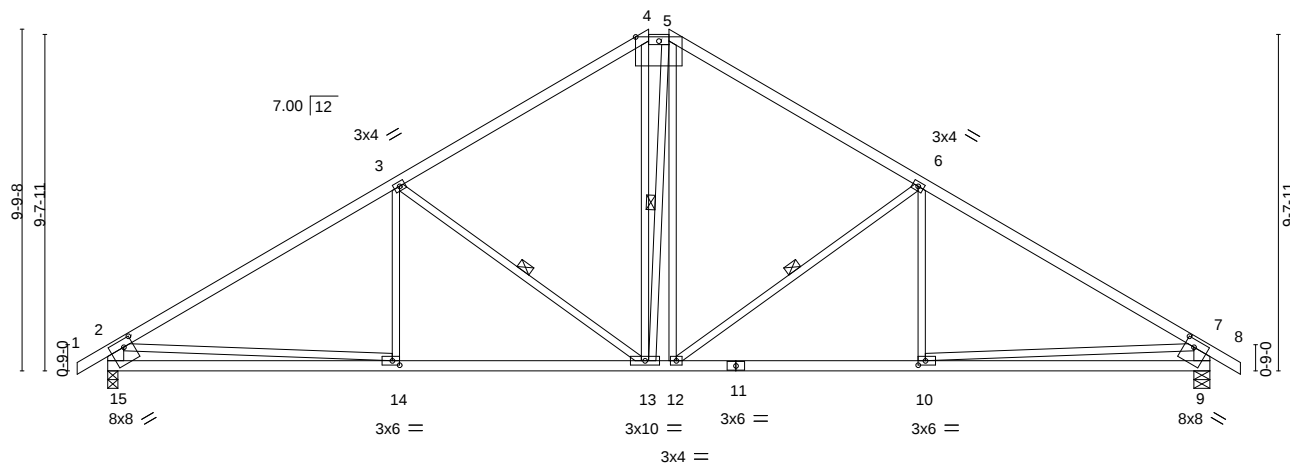


Plate Offsets (X,Y)--	[4:0-8-0,0-1-7], [9:0-3-4,0-2-8], [10:0-2-8,0-1-8], [14:0-2-8,0-1-8], [15:0-3-4,0-2-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.11 14-15	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.23 14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.06 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07 10-12	>999	240	Weight: 139 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-15,7-9: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-7 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 9-5-1 oc bracing.
WEBS 1 Row at midpt 3-13, 5-13, 6-12

REACTIONS.

(size) 15=0-3-8, 9=0-5-8
Max Horz 15=-271(LC 6)
Max Uplift 15=-191(LC 8), 9=-191(LC 9)
Max Grav 15=1478(LC 1), 9=1478(LC 1)

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

TOP CHORD 2-3=-2072/244, 3-4=-1506/255, 4-5=-1181/251, 5-6=-1502/254, 6-7=-2076/245,
2-15=-1399/237, 7-9=-1401/237
BOT CHORD 14-15=-382/918, 13-14=-230/1666, 12-13=-20/1180, 10-12=-82/1670, 9-10=-246/738
WEBS 3-14=0/275, 3-13=-640/249, 4-13=-151/575, 5-13=-278/260, 5-12=-75/382,
6-12=-644/249, 6-10=0/281, 2-14=0/920, 7-10=0/935

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=191, 9=191.
- 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 10, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss G2	Truss Type Hip	Qty 1	Ply 1	Lot 116 W0 I45128867
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:24 2021 Page 1

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-MRWZDclcyloMNU6yQNGyIIYA1QVpIBrXimttuKzcNZz

0-10-8 6-6-8 13-2-9 18-4-7 25-0-8 31-7-0 32-5-8
0-10-8 6-6-8 6-8-1 5-1-14 6-8-1 6-6-8 0-10-8

Scale = 1:55.2

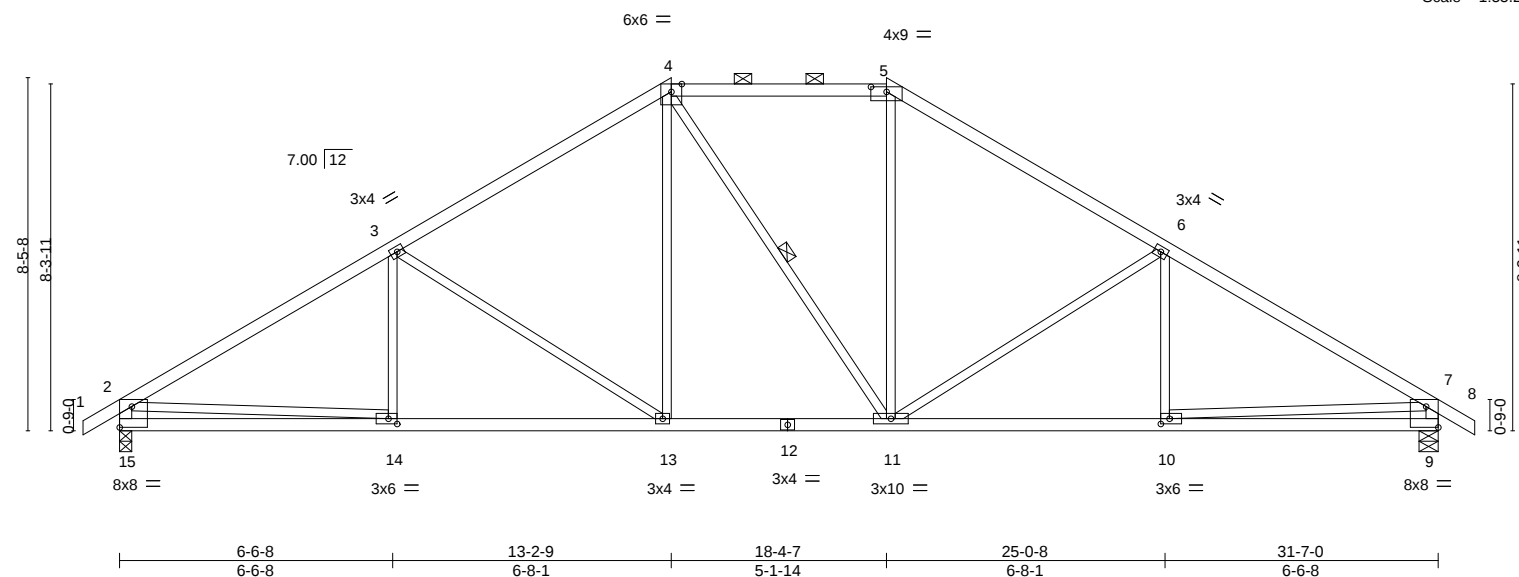


Plate Offsets (X, Y)--		[5:0-4-8,0-1-7], [9:Edge,0-6-0], [10:0-2-8,0-1-8], [14:0-2-8,0-1-8], [15:Edge,0-6-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	2-0-0	TC 0.61	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.15	BC 0.62	Vert(LL) -0.11 13-14 >999 360
BCLL 0.0 *	Lumber DOL 1.15	WB 0.90	Vert(CT) -0.22 13-14 >999 240
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 9 n/a n/a
	Code IRC2018/TPI2014		Wind(LL) 0.06 13-14 >999 240
		PLATES MT20	
		GRIP 197/144	
		Weight: 129 lb FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-15,7-9: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-2 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11

REACTIONS.

(size) 15=0-3-8, 9=0-5-8
Max Horz 15=233(LC 7)
Max Uplift 15=-175(LC 8), 9=-175(LC 9)
Max Grav 15=1550(LC 15), 9=1547(LC 16)

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

TOP CHORD 2-3=-2219/228, 3-4=-1751/209, 4-5=-1418/234, 5-6=-1745/209, 6-7=-2213/228,
2-15=-1442/209, 7-9=-1438/209
BOT CHORD 14-15=-250/734, 13-14=-222/1964, 11-13=-37/1450, 10-11=-96/1831, 9-10=-134/575
WEBS 3-13=-603/219, 4-13=-50/568, 5-11=-30/533, 6-11=-603/219, 2-14=0/1306, 7-10=0/1301

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=175, 9=175.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 10, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	145128868
210328	G3	Hip	1	1		

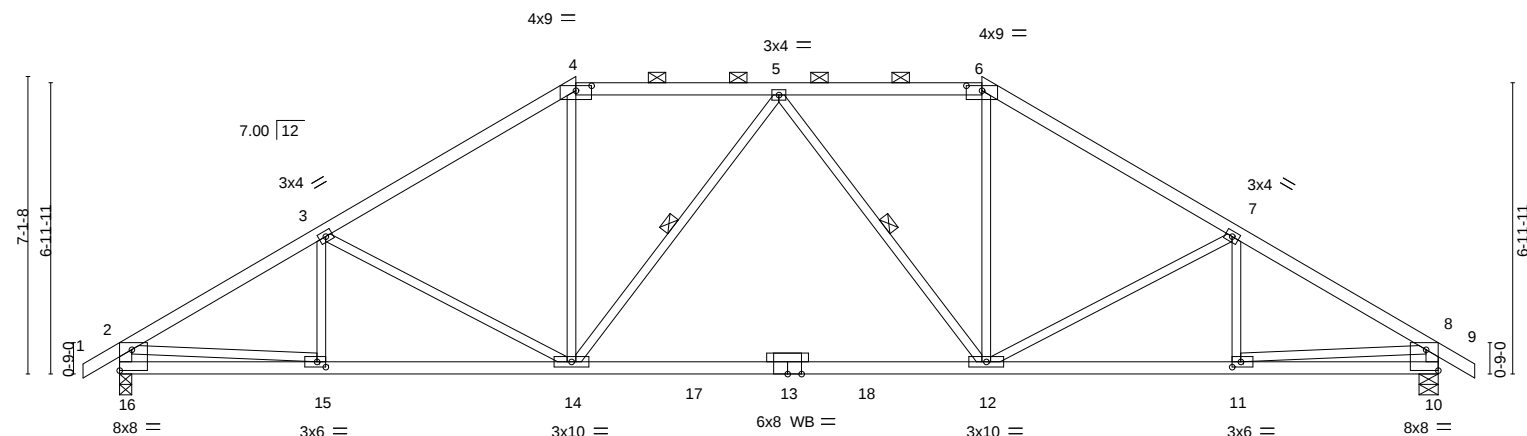
Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:25 2021 Page 1

ID:2ncXplsXOfbjlB617Q?gPMzrYWU-qd3yR5dwj3wD?eg8z4nBIV5Lcqrh1llgxQdRQmzcNzy

-0-10-8	4-10-0	10-11-2	15-9-8	20-7-14	26-9-0	31-7-0	32-5-8
0-10-8	4-10-0	6-1-2	4-10-6	4-10-6	6-1-2	4-10-0	0-10-8

Scale = 1:55.2



	4-10-0	10-11-2	20-7-14	26-9-0	31-7-0	
	4-10-0	6-1-2	9-8-11	6-1-2	4-10-0	

Plate Offsets (X,Y)-- [4:0-4-8,0-1-7], [6:0-4-8,0-1-7], [10:Edge,0-6-0], [11:0-2-8,0-1-8], [15:0-2-8,0-1-8], [16:Edge,0-6-0]

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 0.62	Vert(LL)	-0.31 12-14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.53 12-14	>713	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05 14	>999	240		
								Weight: 127 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF 2100F 1.8E
 WEBS 2x3 SPF No.2 *Except*
 2-16,8-10: 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-9 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-14, 5-12

REACTIONS.

(size) 16=0-3-8, 10=0-5-8
 Max Horz 16=198(LC 7)
 Max Uplift 16=155(LC 8), 10=155(LC 9)
 Max Grav 16=1537(LC 2), 10=1537(LC 2)

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

TOP CHORD 2-3=-2210/206, 3-4=-1962/171, 4-5=-1615/198, 5-6=-1615/198, 6-7=-1962/171,
 7-8=-2210/206, 2-16=-1433/181, 8-10=-1433/180
 BOT CHORD 15-16=-170/520, 14-15=-208/1898, 12-14=-117/1736, 11-12=-105/1851, 10-11=-42/387
 WEBS 3-14=-371/199, 4-14=0/648, 5-14=-372/192, 5-12=-372/192, 6-12=0/648, 7-12=-371/199,
 2-15=-71/1474, 8-11=-64/1474

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=155, 10=155.
- 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 10, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	145128869
210328	G4	Hip	1	1		

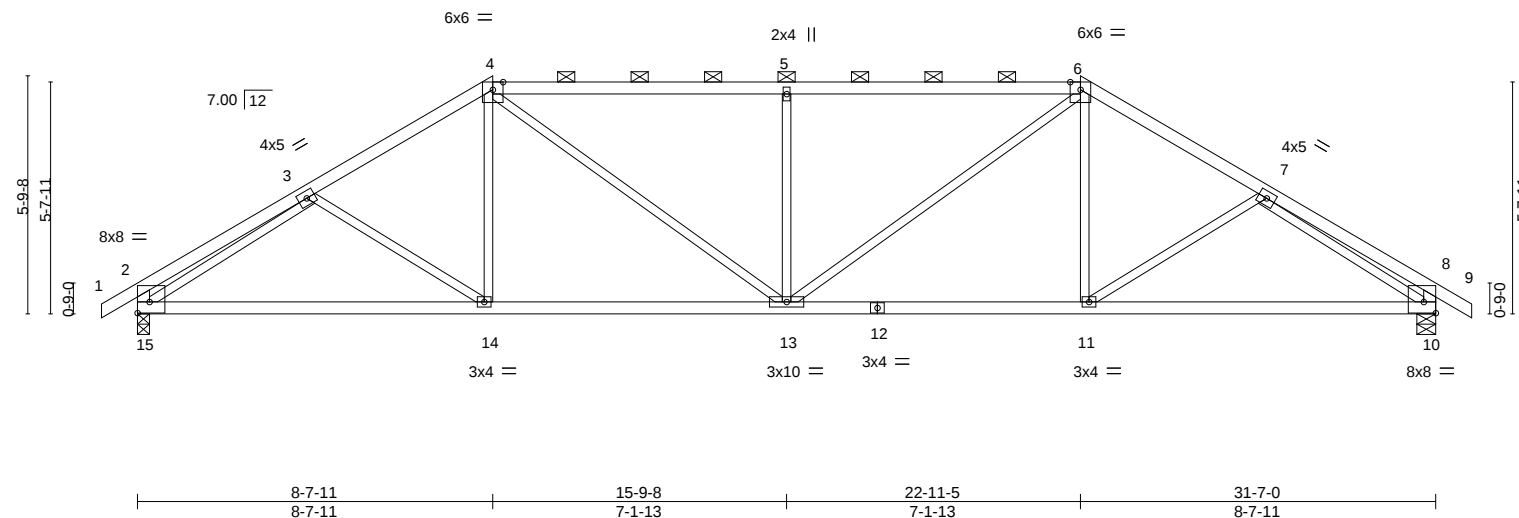
Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:26 2021 Page 1

ID:2ncXplsXOfbjIB6l7Q?gPMzrYWU-lpdKeRdYUN24coFLXoJQjdSfDaqm5fq94M_yDzcNZx

-0-10-8	4-2-10	8-7-11	15-9-8	22-11-5	27-4-6	31-7-0	32-5-8
0-10-8	4-2-10	4-5-2	7-1-13	7-1-13	4-5-2	4-2-10	0-10-8

Scale = 1:56.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.13 10-11 >999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.27 10-11 >999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.09 10 n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.08 13 >999	240			

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-15,8-10: 2x4 SPF No.2

BRACING-

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

REACTIONS.

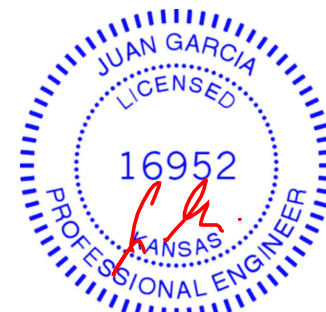
(size) 15=0-3-8, 10=0-5-8
Max Horz 15=163(LC 7)
Max Uplift 15=-132(LC 8), 10=-132(LC 9)
Max Grav 15=1480(LC 1), 10=1480(LC 1)

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

TOP CHORD 2-3=-578/63, 3-4=-1969/176, 4-5=-2136/226, 5-6=-2136/226, 6-7=-1969/176, 7-8=-578/63, 2-15=-486/100, 8-10=-486/100
BOT CHORD 14-15=-237/1702, 13-14=-191/1644, 11-13=-77/1644, 10-11=-96/1702
WEBS 4-14=0/313, 4-13=-209/711, 5-13=-610/245, 6-13=-209/711, 6-11=0/313, 3-15=-1567/140, 7-10=-1567/141

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=132, 10=132.
- 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 10, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	145128870
210328	G5	Hip Girder	1	1		

Wheeler Lumber, Waverly, KS - 66871,

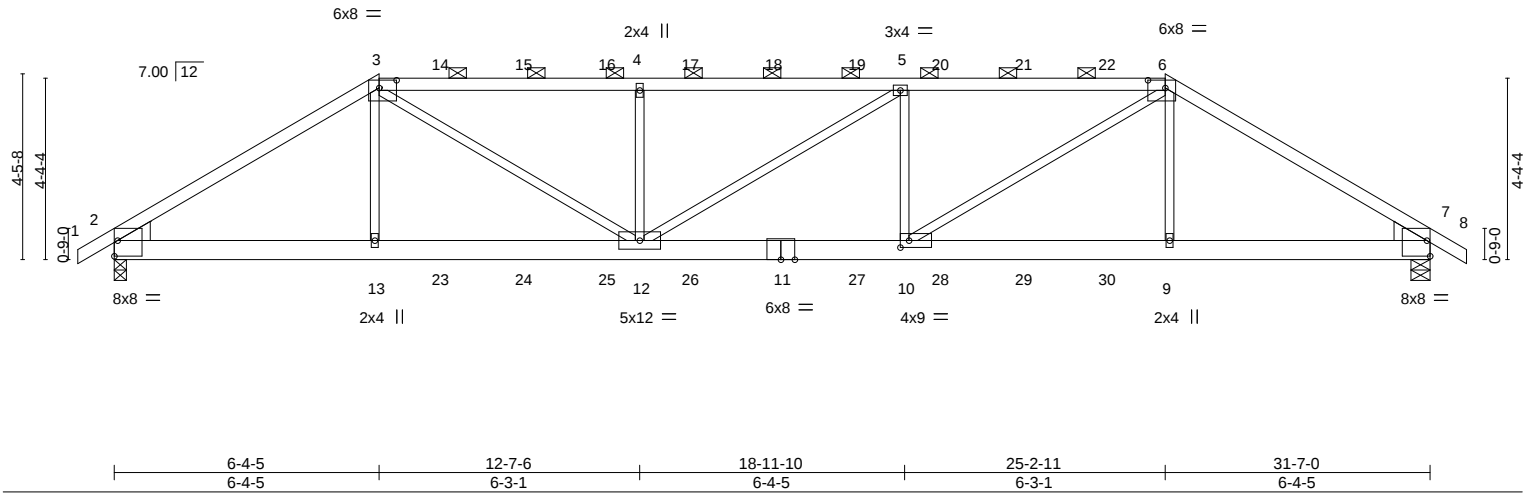
8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:27 2021 Page 1

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0-10-8 6-4-5 12-7-6 18-11-10 25-2-11 31-7-0 32-5-8

0-10-8 6-4-5 6-3-1 6-4-5 6-3-1 6-4-5 0-10-8

Scale = 1:55.3



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 0.94	Vert(LL)	-0.25 10-12	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.46 10-12	>819	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.71	Horz(CT)	0.12 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.20 10-12	>999	240	Weight: 130 lb	FT = 10%

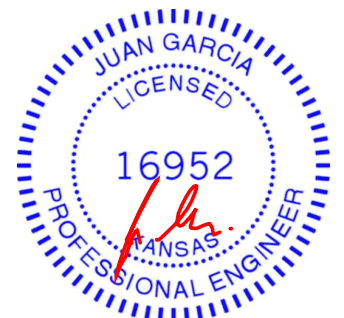
LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E *Except*	TOP CHORD Structural wood sheathing directly applied or 3-1-5 oc purlins, except
3-6: 2x4 SPF 2400F 2.0E	2-0-0 oc purlins (2-8-6 max.): 3-6.
BOT CHORD 2x6 SPF 1650F 1.4E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x3 SPF No.2	8-11-7 oc bracing: 10-12.
WEDGE	
Left: 2x6 SPF No.2 , Right: 2x6 SPF No.2	

REACTIONS. (size) 2=0-3-8 (req. 0-3-15), 7=0-5-8
Max Horz 2=109(LC 7)
Max Uplift 2=-484(LC 8), 7=-487(LC 9)
Max Grav 2=2524(LC 1), 7=2537(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4194/815, 3-4=-5055/968, 4-5=-5052/967, 5-6=-5052/966, 6-7=-4170/811
BOT CHORD 2-13=-725/3422, 12-13=-722/3405, 10-12=-947/5050, 9-10=-610/3372, 7-9=-613/3389
WEBS 3-13=-128/664, 3-12=-412/2042, 4-12=-815/342, 5-10=-845/363, 6-10=-418/2076, 6-9=-127/657

- 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.
 - WARNING:** Required bearing size at joint(s) 2 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=484, 7=487.
 - 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) 125 lb down and 77 lb up at 7-9-7, 125 lb down and 77 lb up at 9-9-7, 125 lb down and 77 lb up at 11-9-7, 125 lb down and 77 lb up at 13-9-7, 125 lb down and 77 lb up at 15-9-8, 125 lb down and 77 lb up at 17-9-8, 125 lb down and 77 lb up at 19-9-8, and 125 lb down and 77 lb up at 21-9-8, and 125 lb down and 77 lb up at 23-9-8 on top chord, and 429 lb down and 221 lb up at 6-4-5, 60 lb down at 7-9-7, 60 lb down at 9-9-7, 60 lb down at 11-9-7, 60 lb down at 13-9-7, 60 lb down at 15-9-8, 60 lb down at 17-9-8, 60 lb down at 19-9-8, 60 lb down at 21-9-8, and 60 lb down at 23-9-8, and 429 lb down and 221 lb up at 25-2-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continue on page 2



March 10,2021

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0
210328	G5	Hip Girder	1	1	I45128870
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:28 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 11=-45(B) 13=-429(B) 9=-429(B) 14=-93(B) 15=-93(B) 16=-93(B) 17=-93(B) 18=-93(B) 19=-93(B) 20=-93(B) 21=-93(B) 22=-93(B) 23=-45(B) 24=-45(B)
25=-45(B) 26=-45(B) 27=-45(B) 28=-45(B) 29=-45(B) 30=-45(B)

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss J8	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Lot 116 W0 Job Reference (optional)	I45128871
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:41 2021 Page 1
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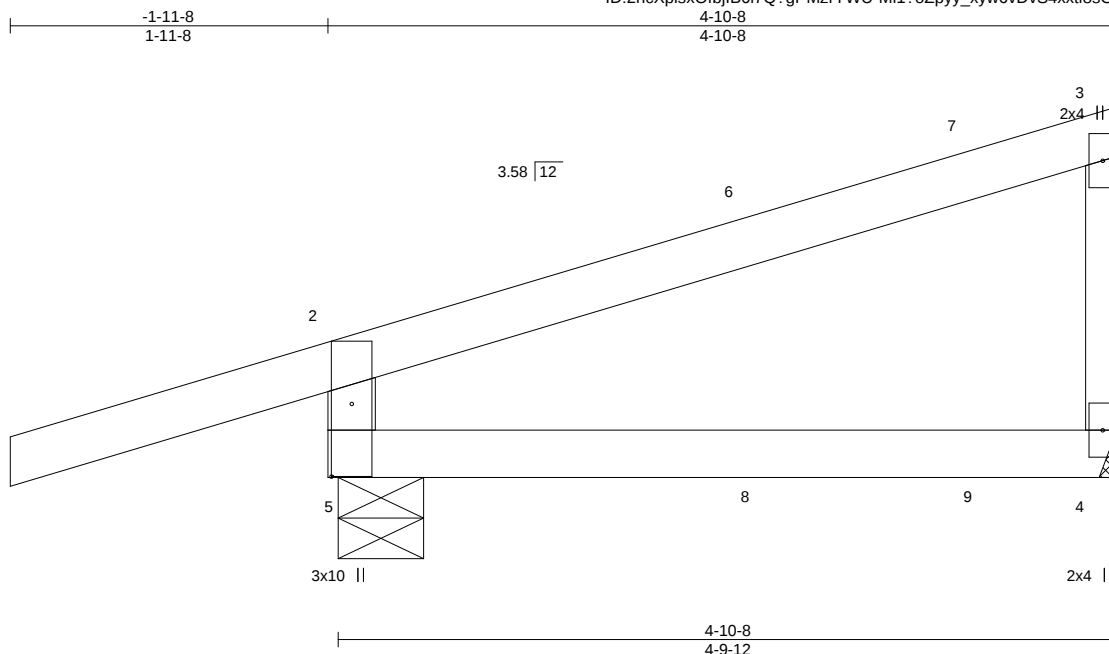


Plate Offsets (X,Y)--		[5:0-5-6,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) -0.02 4-5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.04 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240	Weight: 16 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=0-6-5, 4=Mechanical
Max Horz 5=96(LC 5)
Max Uplift 5=-148(LC 4), 4=-63(LC 5)
Max Grav 5=395(LC 1), 4=222(LC 1)

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

TOP CHORD 2-5=-351/175

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=148.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 21 lb up at 2-8-8, and 105 lb down and 83 lb up at 4-1-0 on top chord, and 7 lb down and 10 lb up at 2-8-8, and 30 lb down at 4-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-3=-70, 4-5=-20
Concentrated Loads (lb)
Vert: 7=-43(F) 8=5(B) 9=-15(F)



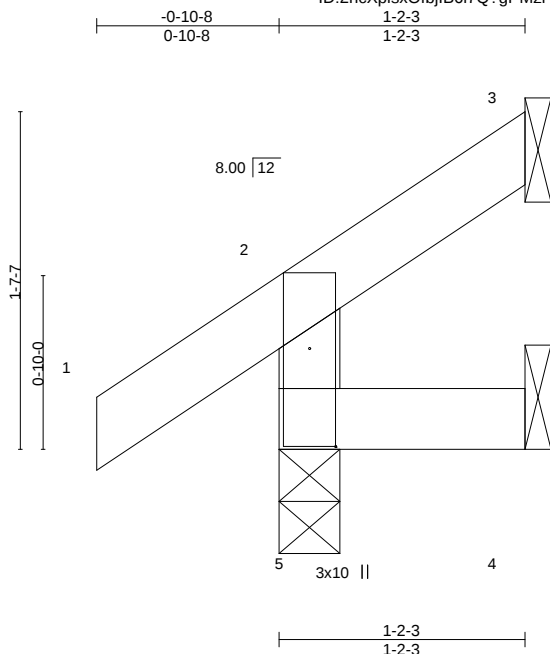
March 10, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017



Scale = 1:11.1

Plate Offsets (X,Y)-- [5:0-5:10,0-1:8]												
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)	0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	5	>999	180		
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%

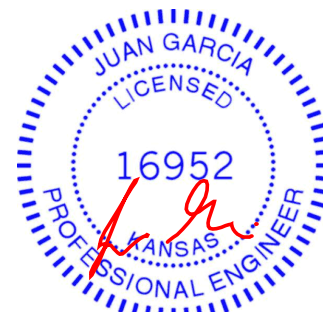
LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-2-3 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2		
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=43(LC 8)
 Max Uplift 5=-14(LC 8), 3=-22(LC 8), 4=-5(LC 8)
 Max Grav 5=153(LC 1), 3=17(LC 15), 4=17(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; 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, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 10.2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



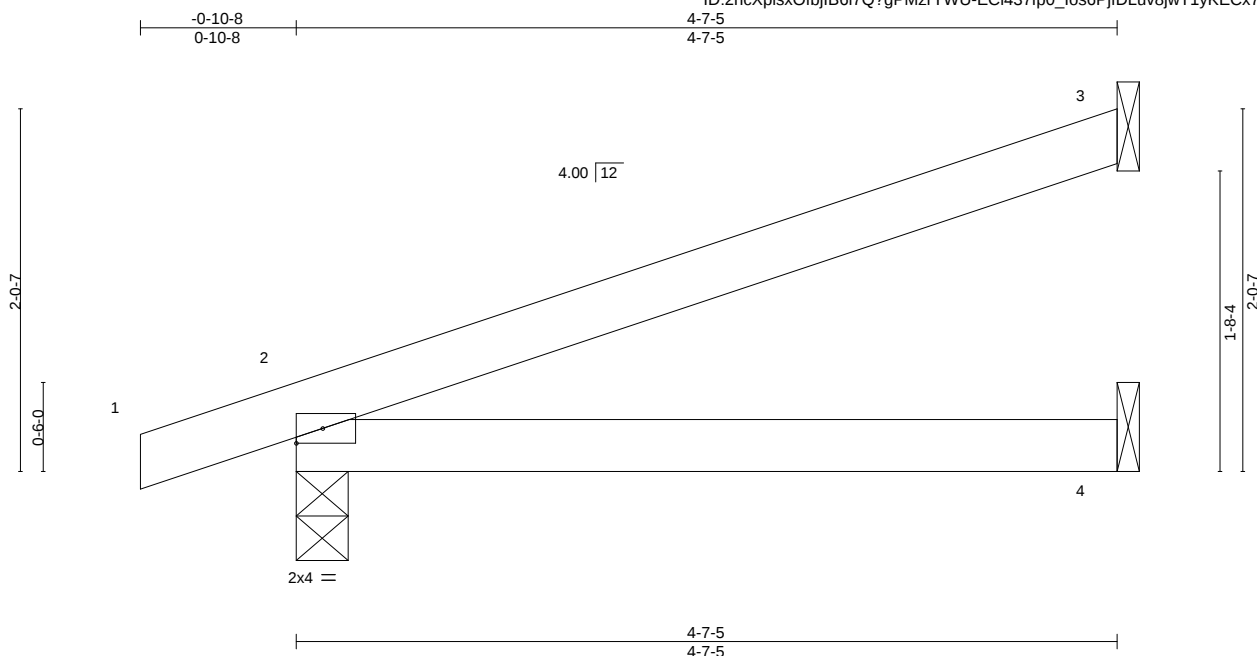
16023 Swingley Ridge Rd
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Job 210328	Truss J10	Truss Type Jack-Open	Qty 1	Ply 1	Lot 116 W0 I45128873
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:28 2021 Page 1

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-ECI437fp0_los6PjfdLuv8jwT1yKECxdOr515zcNZv



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 0.33	Vert(LL)	-0.02	2-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.05	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 12 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 4-7-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=75(LC 4)
Max Uplift 3=-74(LC 8), 2=-72(LC 4)
Max Grav 3=146(LC 1), 2=278(LC 1), 4=88(LC 3)

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

NOTES-

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



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



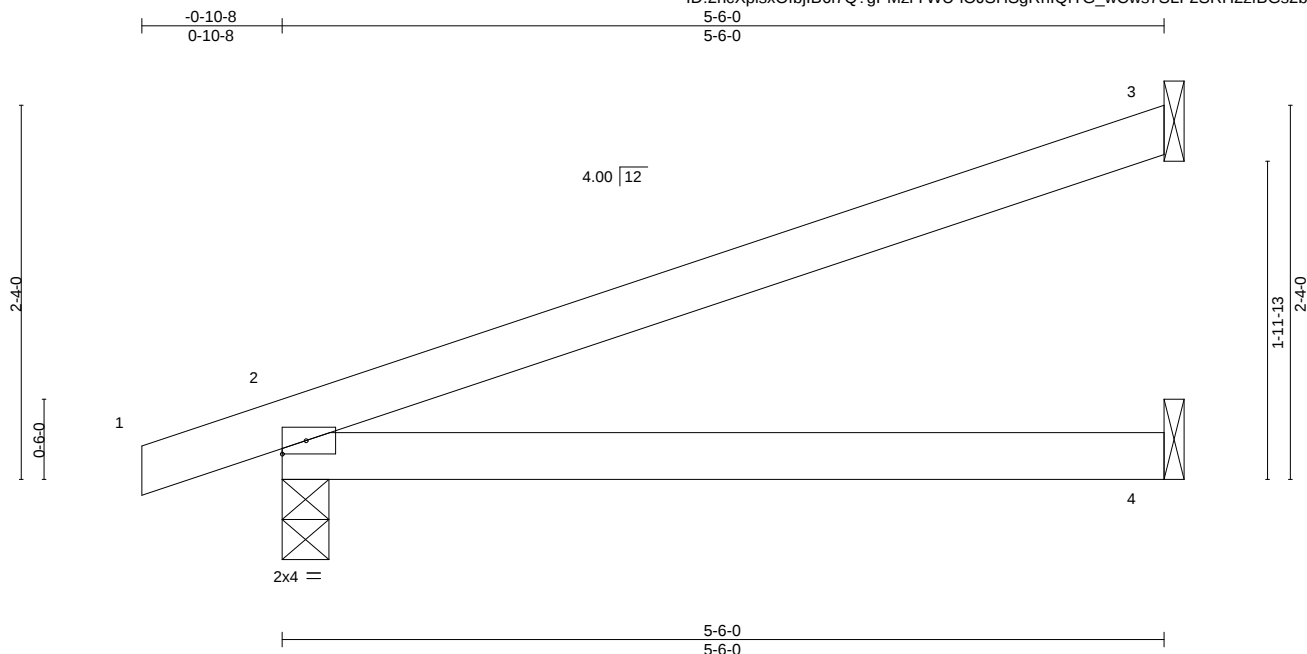
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss J11	Truss Type Jack-Open	Qty 3	Ply 1	Lot 116 W0 Job Reference (optional)	I45128874
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:29 2021 Page 1

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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 0.50	Vert(LL)	-0.05	2-4	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.09	2-4	>675	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240		
									Weight: 14 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 5-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=87(LC 4)
Max Uplift 3=90(LC 8), 2=76(LC 4)
Max Grav 3=178(LC 1), 2=316(LC 1), 4=106(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 connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 10, 2021

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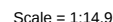


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Wheeler Lumber.	Waverly, KS - 66871.
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8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:30 2021 Page 1

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LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SPF No.2

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-1-2 oc bracing.

REACTIONS. (size) 1=0-3-8, 3=Mechanical
 Max Horz 1=85(LC 5)
 Max Uplift 1=157(LC 4), 3=155(LC 8)
 Max Grav 1=1162(LC 1), 3=1037(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; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=157, 3=155.
- 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) 865 lb down and 120 lb up at 1-6-12, and 865 lb down and 120 lb up at 3-6-12 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, 1-3=-20
Concentrated Loads (lb)
Vert: 4=-865(F) 5=-865(F)



March 10.2021

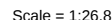


WARNING: Velly design parameters are READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MM-1475 (Rev. 3/25/2020) BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:31 2021 Page 1
ID:2ncXplsXOfpIB6I7Q?qpPMzrYWU-fnRDPd8hhIvNiz8IKLubXmLMSEtfRZhZJM4leOzcNZs



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.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-440/137, 2-3=-489/113
 BOT CHORD 7-8=-169/334

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=118, 5=163.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 35 lb up at 2-1-10, 79 lb down and 50 lb up at 3-4-11, and 109 lb down and 65 lb up at 5-2-1, and 104 lb down and 66 lb up at 6-0-9 on top chord, and 6 lb down and 2 lb up at 2-1-10, 9 lb down and 12 lb up at 3-2-5, and 32 lb down and 36 lb up at 5-2-1, and 37 lb down and 43 lb up at 6-0-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20



March 10.2021

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

WARNING: Velly design parameters are READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MM-1475 (Rev. 3/25/2020) BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0
210328	J13	Diagonal Hip Girder	1	1	I45128876
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:31 2021 Page 2
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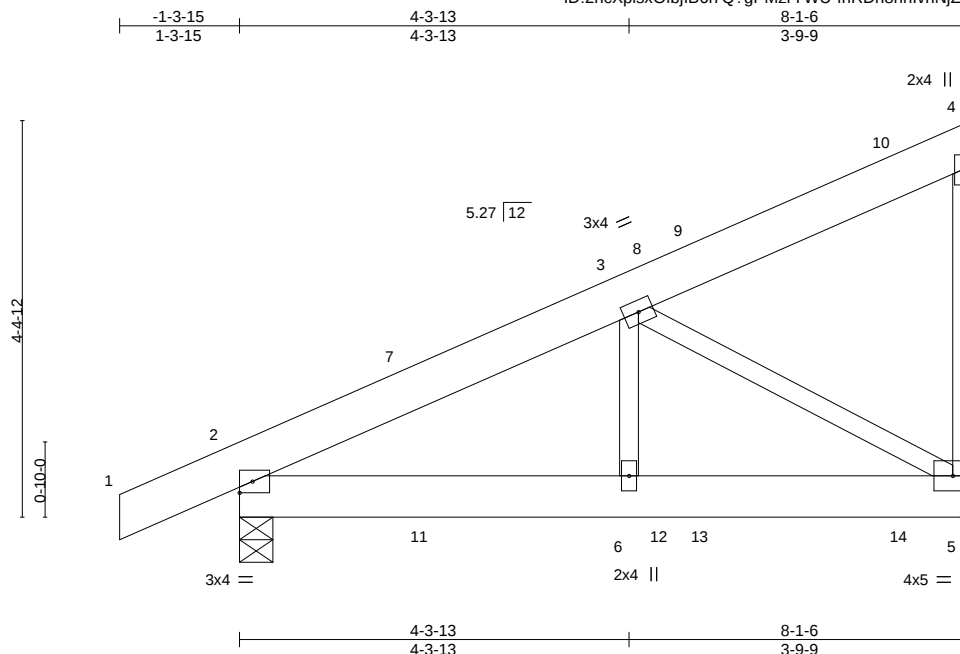
LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=0(F) 10=-7(B) 11=-10(F) 12=2(B) 13=-28(B) 14=-33(F)

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128877
210328	J14	Diagonal Hip Girder	2	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:31 2021 Page 1

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Scale = 1:25.5

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)	-0.00	6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.01	6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.20	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.01	6	>999	240		
									Weight: 41 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x6 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=Mechanical, 2=0-4-7
Max Horz 2=172(LC 5)
Max Uplift 5=190(LC 5), 2=-117(LC 8)
Max Grav 5=459(LC 1), 2=483(LC 1)

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

TOP CHORD 2-3=-582/112
BOT CHORD 2-6=-166/402, 5-6=-166/402
WEBS 3-5=-454/191

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=190, 2=117.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 27 lb up at 2-0-12, 81 lb down and 35 lb up at 2-1-10, 96 lb down and 72 lb up at 4-8-10, and 115 lb down and 83 lb up at 5-2-1, and 127 lb down and 129 lb up at 7-4-8 on top chord, and 7 lb down and 9 lb up at 2-0-12, 6 lb down and 2 lb up at 2-1-10, 19 lb down at 4-8-10, and 26 lb down at 5-2-1, and 53 lb down at 7-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-70, 2-5=-20
Concentrated Loads (lb)
Vert: 9=-9(F) 10=-84(B) 11=6(F=2, B=4) 12=-4(B) 13=-14(F) 14=-26(B)



March 10, 2021

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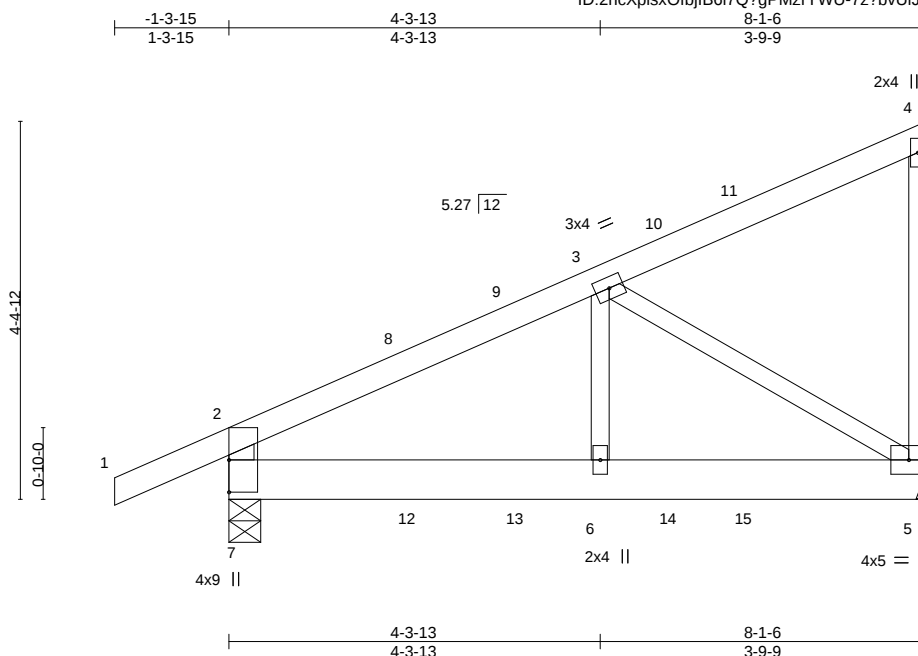


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128878
210328	J14A	Diagonal Hip Girder	1	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:32 2021 Page 1
ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-7z?bvUjJ3DpEKjUu3Pq4_tc2eLuA_3iY0plAszcNZr



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.01	6	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02	6	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.18	Horz(CT)	0.00	5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.01	6	>999	240	
									Weight: 35 lb FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 7=0-4-7, 5=Mechanical
Max Horz 7=182(LC 22)
Max Uplift 7=-109(LC 8), 5=-138(LC 5)
Max Grav 7=483(LC 1), 5=387(LC 1)

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

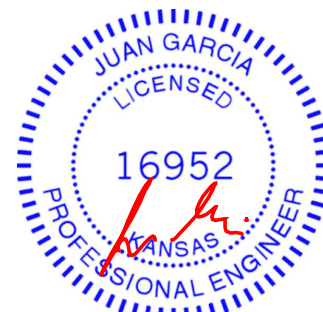
TOP CHORD 2-7=-409/123, 2-3=-500/101
BOT CHORD 6-7=-164/357, 5-6=-164/357
WEBS 3-5=-399/173

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=109, 5=138.
- 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) 81 lb down and 35 lb up at 2-1-10, 79 lb down and 50 lb up at 3-4-11, and 115 lb down and 83 lb up at 5-2-1, and 112 lb down and 87 lb up at 6-0-9 on top chord, and 6 lb down and 2 lb up at 2-1-10, 9 lb down and 12 lb up at 3-4-11, and 26 lb down at 5-2-1, and 29 lb down at 6-0-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-4=-70, 5-7=-20
Concentrated Loads (lb)
Vert: 10=-9(F) 11=-21(B) 12=2(F) 13=0(B) 14=-14(F) 15=-17(B)



March 10, 2021

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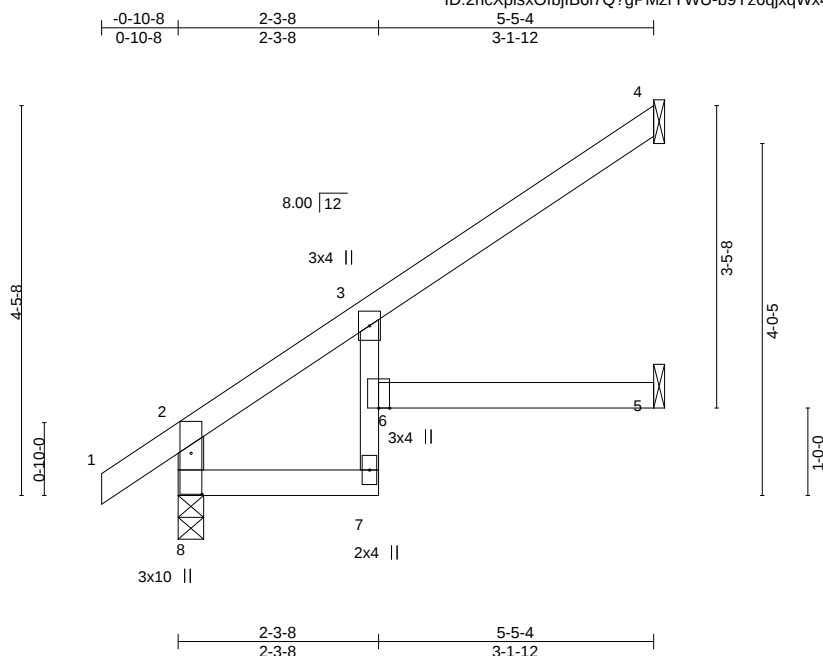
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128879
210328	J15	Jack-Open	1	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:33 2021 Page 1

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-b9Yz6qjxqWx4ytlhRmx3cBQmw2fmvTBSngZsiJzcNZq



Scale = 1:26.3

Plate Offsets (X,Y)--	[8:0-5-10,0-1-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl
TCLL 25.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	-0.06	6 >999
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.10	5-6 >620
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.05	5 n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.08	6 >758
						L/d
						360
						240
						n/a
						240
						Weight: 17 lb
						FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 8=157(LC 8)
 Max Uplift 8=-5(LC 8), 4=-94(LC 8), 5=-12(LC 8)
 Max Grav 8=314(LC 1), 4=162(LC 15), 5=89(LC 3)

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

TOP CHORD 2-8=-294/42

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) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 10, 2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



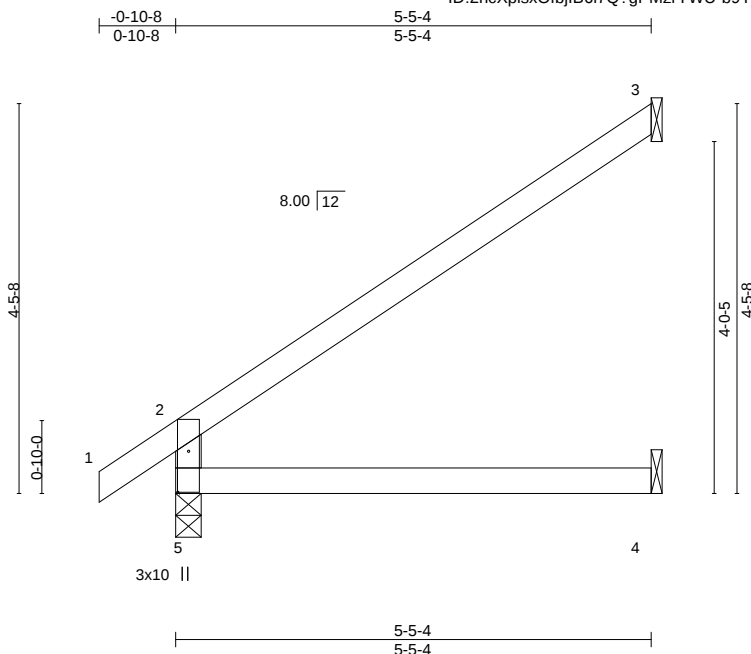
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 210328	Truss J16	Truss Type Jack-Open	Qty 17	Ply 1	Lot 116 W0 I45128880
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:33 2021 Page 1

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-b9Yz6qjxqWx4ytlhRmx3cBQld2fXvTBsngZsiJzcNZq



Scale = 1:26.3

Plate Offsets (X,Y)--		[5:0-5-10,0-1-8]			
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 0.43	Vert(LL) -0.03 4-5 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) -0.08 4-5 >791 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.04 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.04 4-5 >999 240	Weight: 16 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

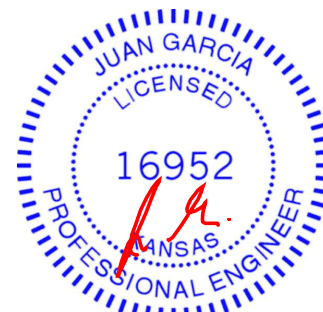
(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=110(LC 8)
Max Uplift 3=69(LC 8)
Max Grav 5=314(LC 1), 3=168(LC 13), 4=100(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-275/28

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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 10, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



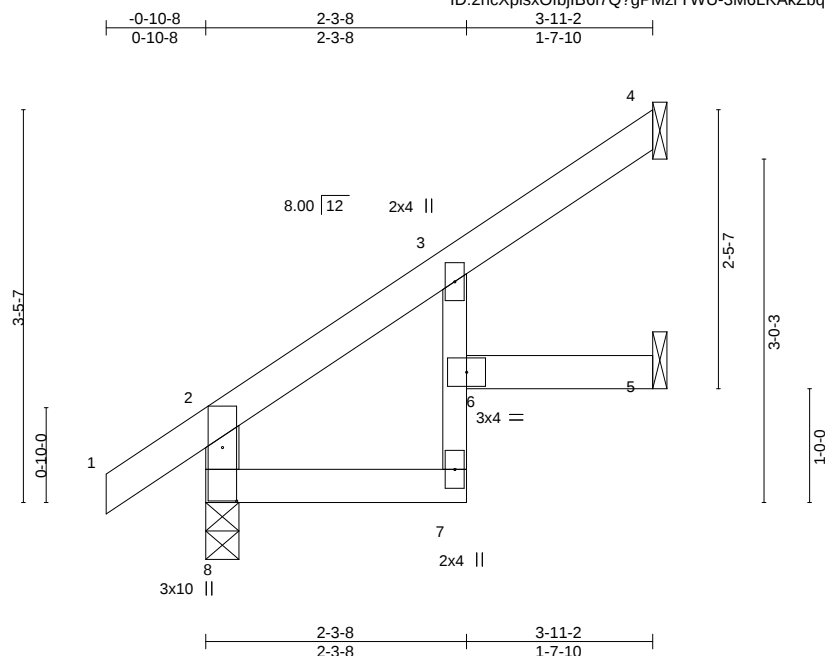
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128881
210328	J17	Jack-Open	1	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:34 2021 Page 1

ID:2ncXplsXOfbjIB6l7Q?gPMzrYWU-3M6LKAkZbq3xa1st?TSI9Pz_1S0lewQ??KIPElzcNZp



Scale = 1:20.2

Plate Offsets (X,Y)--	[8:0-5-10,0-1-8]								
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 0.13	Vert(LL)	-0.01	6	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.02	6	>999	Weight: 13 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 8=116(LC 8)
 Max Uplift 8=-7(LC 8), 4=-58(LC 8), 5=-22(LC 8)
 Max Grav 8=249(LC 1), 4=105(LC 15), 5=66(LC 15)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 10, 2021

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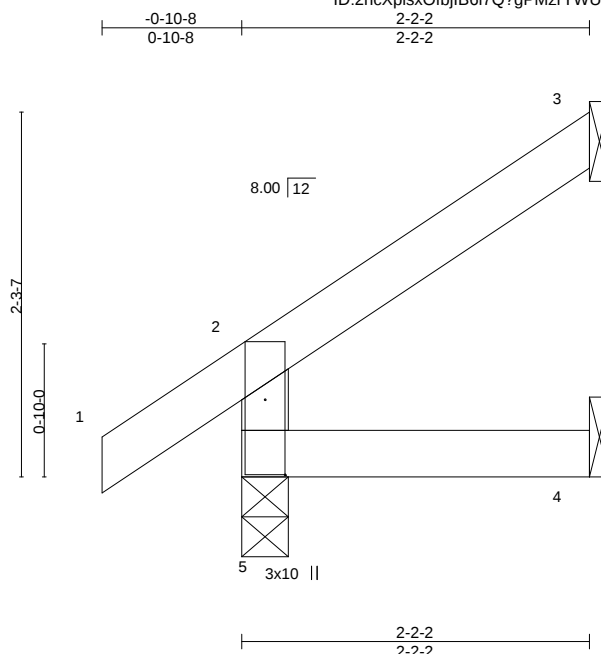
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128882
210328	J18	Jack-Open	2	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:35 2021 Page 1

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-XYgkXWkCM8BoBBR3ZBzXhcVAgsOUNNg9E_2znBzcNZo



Scale = 1:14.4

Plate Offsets (X,Y)--	[5:0-5-10,0-1-8]								
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)	-0.00	5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4-5	>999	Weight: 7 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-2 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=69(LC 8)
Max Uplift 5=-10(LC 8), 3=-45(LC 8), 4=-2(LC 8)
Max Grav 5=179(LC 1), 3=60(LC 15), 4=36(LC 3)

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

NOTES-

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



March 10, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss J19	Truss Type Jack-Open	Qty 1	Ply 1	Lot 116 W0 I45128883
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:35 2021 Page 1

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-XYgkXWkCM8BoBBR3ZBzXhcV9hsM9NNg9E_2znBzcNZo



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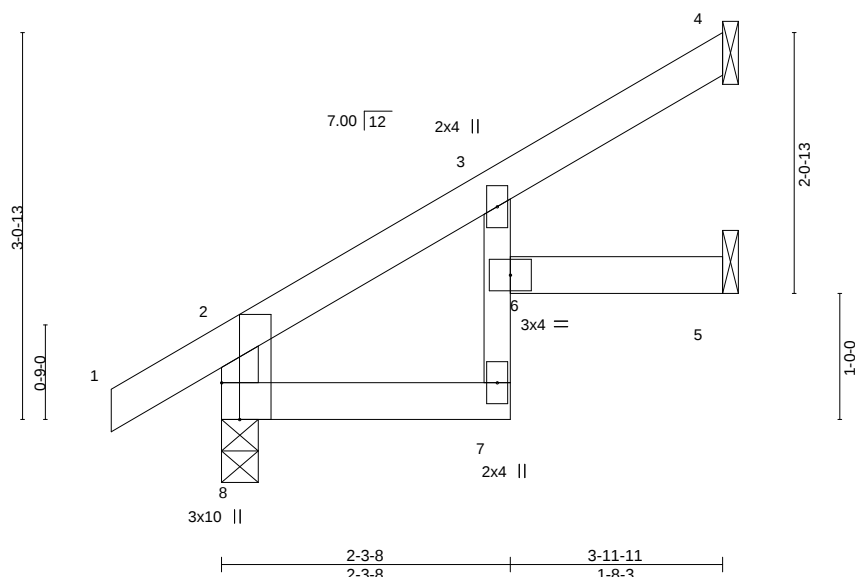


Plate Offsets (X,Y)--		[8:0-3-8,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.14		Vert(LL)	-0.01 6	>999	360	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC 0.19		Vert(CT)	-0.02 7	>999	240		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.02 7	>999	240	Weight: 13 lb	FT = 10%

LUMBER-

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

BRACING-

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

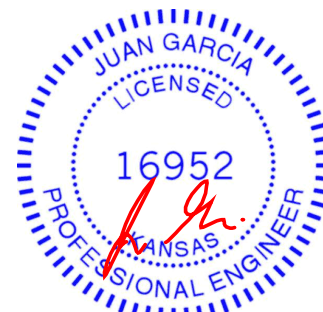
REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 8=103(LC 8)
 Max Uplift 8=-19(LC 8), 4=-52(LC 8), 5=-15(LC 8)
 Max Grav 8=251(LC 1), 4=106(LC 15), 5=64(LC 15)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 10, 2021

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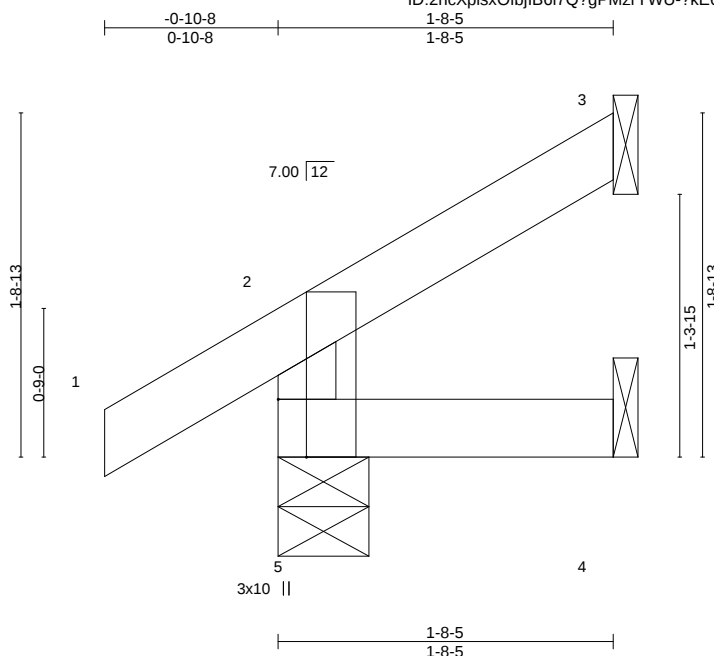
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128884
210328	J20	Jack-Open	4	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:36 2021 Page 1

ID:2ncXplsXOfbjIB6I7Q?gPMzrYWU-?kE6lsq7RJfpK0G7uUmEq2LRFk16qwlTenWJezcNZn



Scale = 1:11.6

Plate Offsets (X,Y)-- [5:0-3-8,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 0.07	Vert(LL)	-0.00	5	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	Weight: 6 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

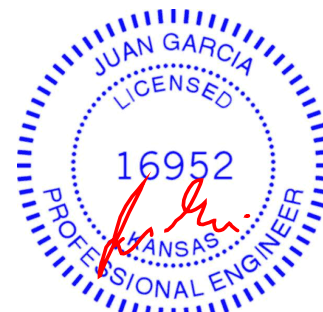
REACTIONS.

(size) 5=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 5=50(LC 8)
Max Uplift 5=-19(LC 8), 3=-30(LC 8)
Max Grav 5=164(LC 1), 3=40(LC 15), 4=27(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 10, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



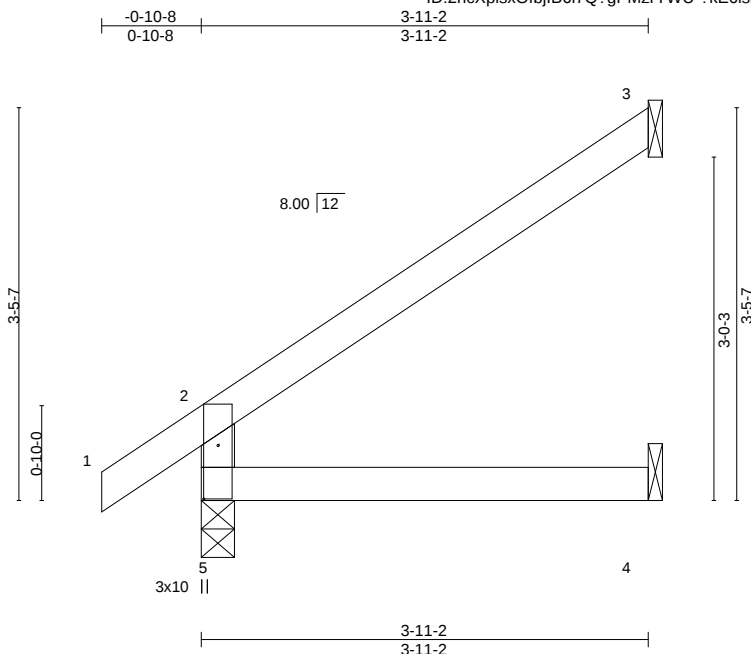
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss J21	Truss Type Jack-Open	Qty 1	Ply 1	Lot 116 W0 I45128885
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:36 2021 Page 1

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-?kE6lsiq7RjfpK0G7uUmEq2JUFjN6qwlTenWJezcNZn



Scale = 1:20.2

Plate Offsets (X,Y)--	[5:0-5-10,0-1-8]
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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 0.20	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.02	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	4-5	>999	240	Weight: 12 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

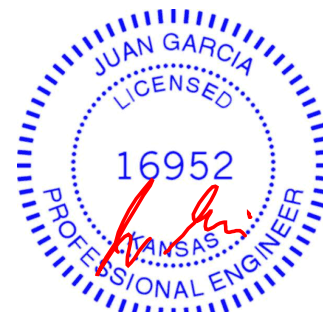
REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=116(LC 8)
Max Uplift 5=-7(LC 8), 3=-82(LC 8)
Max Grav 5=249(LC 1), 3=122(LC 15), 4=70(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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 10, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

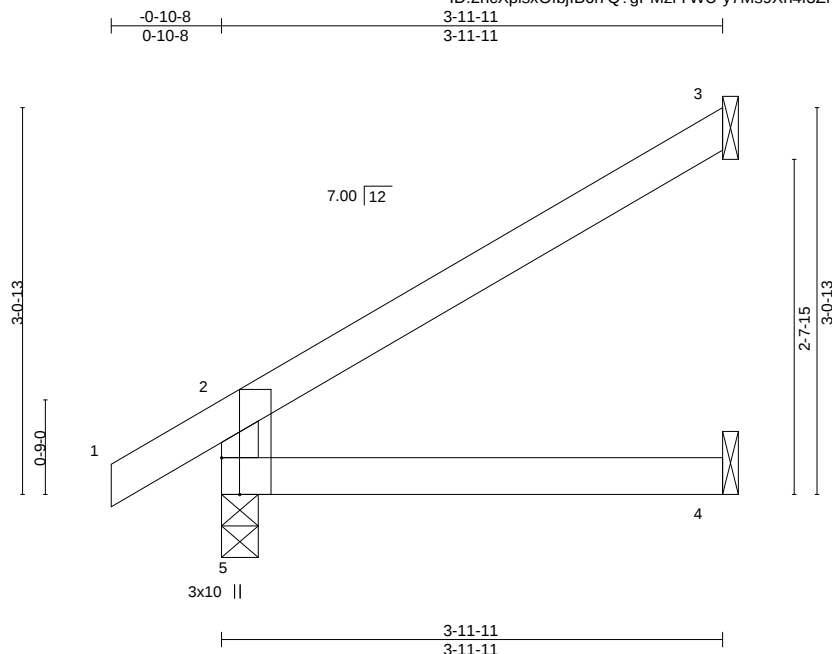
Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128886
210328	J22	Jack-Open	3	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:38 2021 Page 1

ID:2ncXplsXOfbjIB6I7Q?gPMzrYWU-y7Ms9Xn4f3ZN2eAeEJWEJE7fv3PpakQbwyGdNWzcNZI

Job Reference (optional)



Scale = 1:18.3

Plate Offsets (X,Y)--		[5:0-3-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20
TCDL 10.0	Lumber DOL	1.15	BC 0.13
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) -0.01 4-5 >999 360
			Vert(CT) -0.02 4-5 >999 240
			Horz(CT) -0.01 3 n/a n/a
			Wind(LL) 0.01 4-5 >999 240
			PLATES GRIP
			MT20 197/144
			Weight: 11 lb FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-11 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=103(LC 8)
Max Uplift 5=-19(LC 8), 3=-73(LC 8)
Max Grav 5=251(LC 1), 3=122(LC 15), 4=71(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 10, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



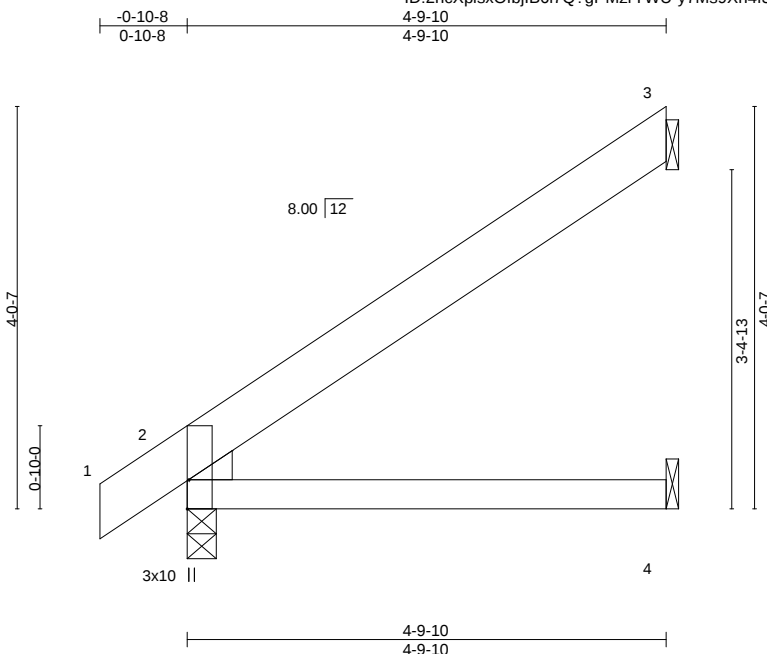
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss J23	Truss Type Jack-Open	Qty 2	Ply 1	Lot 116 W0 I45128887
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:38 2021 Page 1

ID:2ncXplsXOfbjlB6I7Q?gPMzrYWU-y7Ms9Xn4f3ZN2eAeEJWEJE7gX3NNakQbwyGdNWzcNZI



Scale = 1:23.1

Plate Offsets (X,Y)--		[2:Edge,0-0-3]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16
TCDL 10.0	Lumber DOL	1.15	BC 0.22
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-P
			DEFL. in (loc) l/defl L/d
			Vert(LL) -0.03 2-4 >999 360
			Vert(CT) -0.05 2-4 >999 240
			Horz(CT) -0.00 3 n/a n/a
			Wind(LL) 0.00 2 **** 240
			PLATES MT20
			GRIP 197/144
			Weight: 19 lb FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 4-9-10 oc purlins.

BOT CHORD

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

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

Max Horz 2=152(LC 8)

Max Uplift 3=-120(LC 8), 2=-8(LC 8)

Max Grav 3=165(LC 15), 2=286(LC 1), 4=92(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) 2 except (jt=lb) 3=120.
- 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 10, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss J24	Truss Type Jack-Open	Qty 2	Ply 1	Lot 116 W0 I45128888
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:39 2021 Page 1

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-QJwENtniQMhEgolro11TsSgsATlyJBgk9c0AwyzcNZk

-0-10-8 3-0-10
0-10-8 3-0-10

Scale = 1:17.4

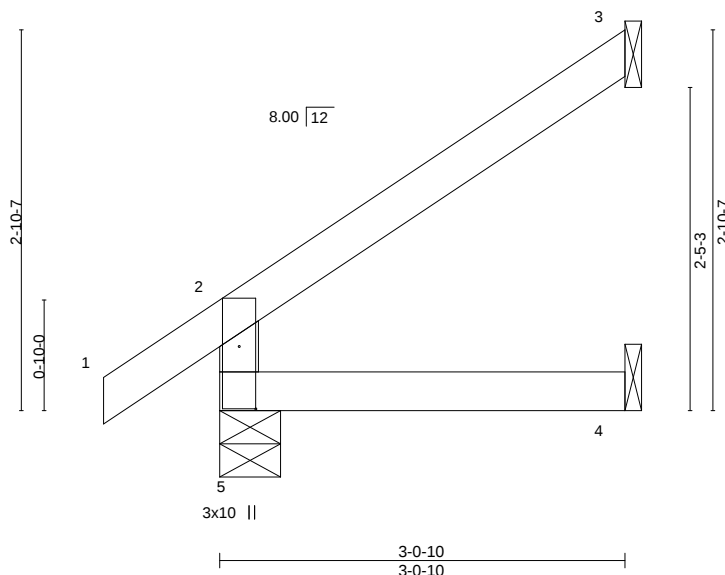


Plate Offsets (X,Y)--	[5:0-5-10,0-1-8]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00 4-5 >999 360
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01 4-5 >999 240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01 3 n/a n/a
BCDL 10.0	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 2x4 SPF No.2

BRACING-

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

REACTIONS.

(size) 5=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 5=93(LC 8)
Max Uplift 5=-8(LC 8), 3=-64(LC 8)
Max Grav 5=212(LC 1), 3=92(LC 15), 4=53(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 10, 2021

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

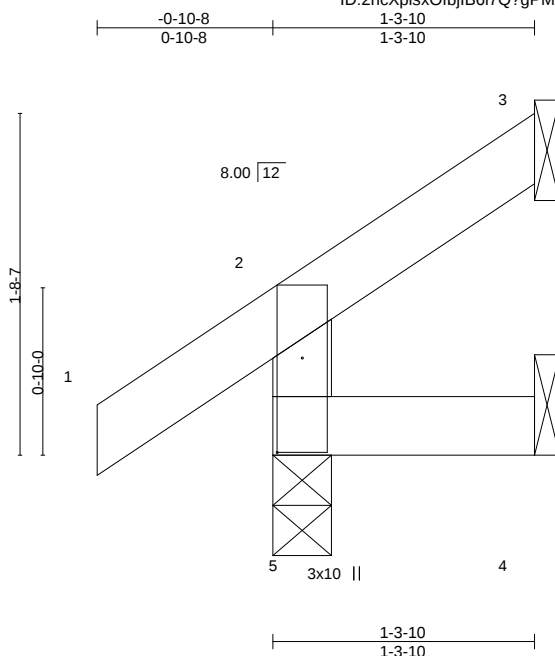
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017



Scale = 1:11.5

Plate Offsets (X,Y)--		[5:0-5-10,0-1-8]									
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)	0.00 5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00 5	>999	180		
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-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 1-3-10 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.2		

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=46(LC 8)
 Max Uplift 5=-13(LC 8), 3=-25(LC 8), 4=-4(LC 8)
 Max Grav 5=155(LC 1), 3=24(LC 15), 4=19(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; 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, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



March 10.2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



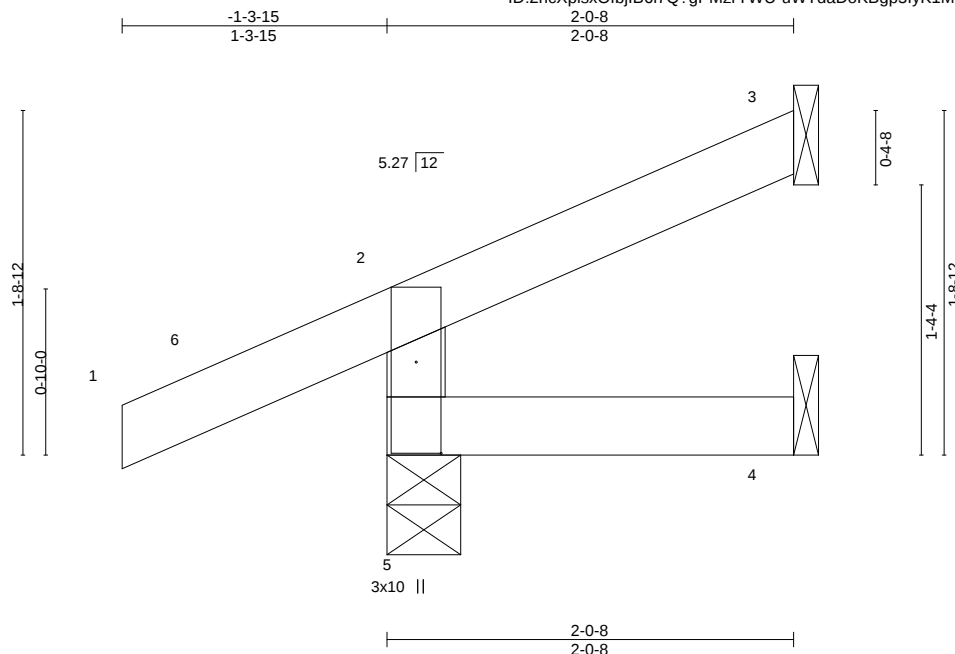
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128890
210328	J26	Jack-Open Girder	1	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:40 2021 Page 1

ID:2ncXplsXOfbjIB6I7Q?gPMzrYWU-uWTdaDoKBgp5lyK1MkZiOfD15s6x2evuOGIkSPzcNZj



Scale = 1:11.6

Plate Offsets (X,Y)--		[5:0-5-8,0-1-8]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL 1.15		TC	0.09	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 NO		WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.00	5	>999	240	Weight: 7 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=0-4-7, 3=Mechanical, 4=Mechanical
Max Horz 5=63(LC 7)
Max Uplift 5=-112(LC 12), 3=-22(LC 12)
Max Grav 5=70(LC 1), 3=25(LC 1), 4=26(LC 3)

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

NOTES-

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

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Concentrated Loads (lb)
Vert: 1=-13(F=-7, B=-7)
Trapezoidal Loads (plf)
Vert: 1=-0(F=35, B=35)-to-6=-9(F=30, B=30), 6=0(F=35, B=35)-to-2=-17(F=27, B=27), 2=-17(F=27, B=27)-to-3=-49(F=10, B=10), 5=-5(F=8, B=8)-to-4=-14(F=3, B=3)



March 10, 2021

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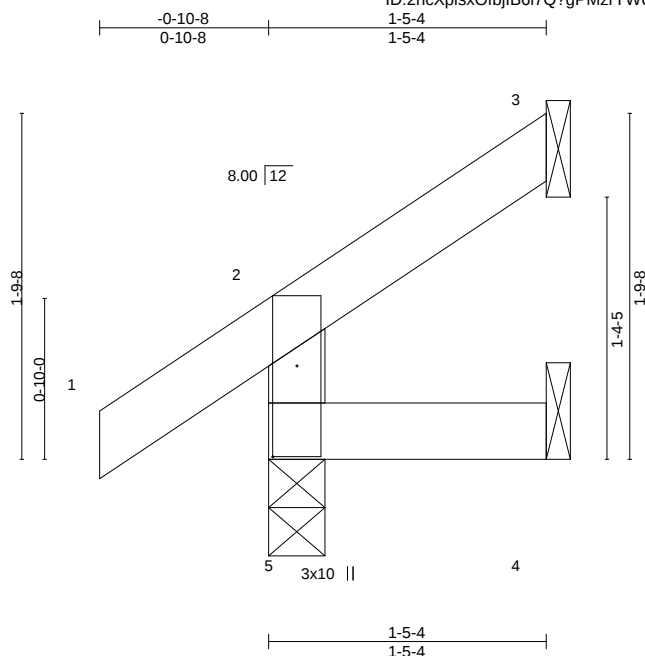
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128891
210328	J27	Jack-Open	1	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:41 2021 Page 1

ID:2ncXplsXOfbjB6l7Q?gPMzrYWU-Mi1?oZppy_xyw6vDvS4xxtlC9GRBn591cwVH_rzcNZi



Scale: 1"=1'

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

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

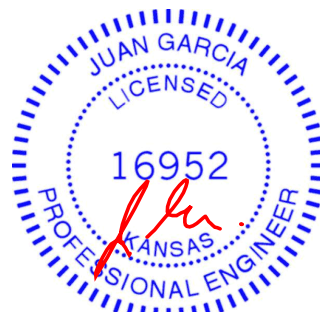
REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=50(LC 8)
Max Uplift 5=-12(LC 8), 3=-29(LC 8), 4=-4(LC 8)
Max Grav 5=158(LC 1), 3=30(LC 15), 4=22(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, 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 10, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

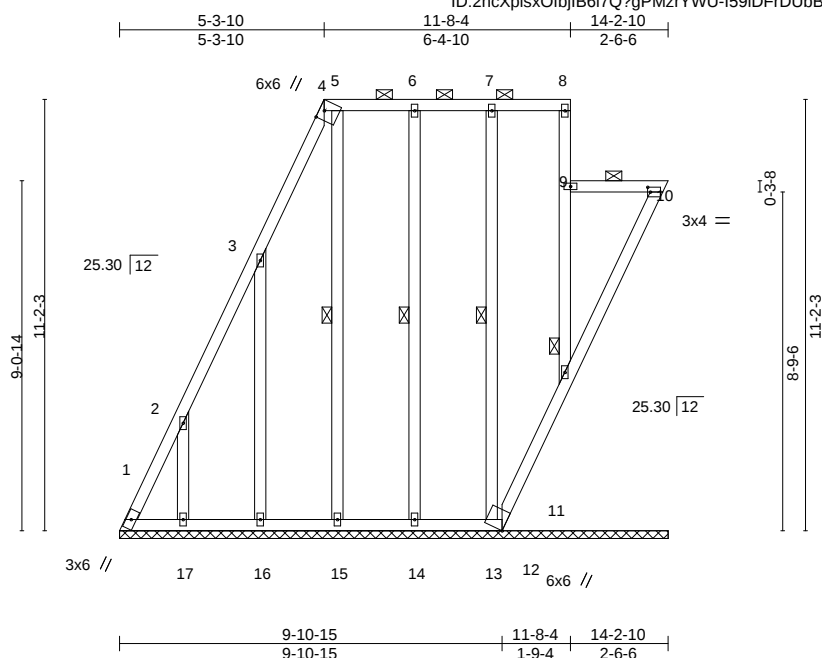


Plate Offsets (X,Y)-- [4:0-2-13,Edge], [10:0-0-13,0-1-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	-0.02	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 102 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8, 9-11, 9-10. Except:
BOT CHORD	2x4 SPF No.2		1 Row at midpt 9-11
WEBS	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 11-12.
OTHERS	2x4 SPF No.2	WEBS	1 Row at midpt 5-15, 6-14, 7-13

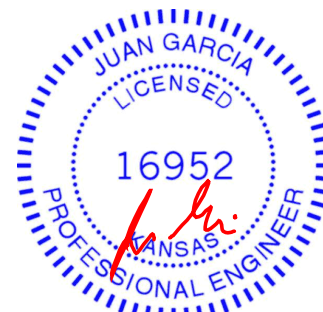
REACTIONS. All bearings 14-2-10.
(lb) - Max Horz 1=535(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 11, 12, 14, 13 except 1=-424(LC 6),
10=-277(LC 8), 17=-371(LC 8), 16=-412(LC 8), 15=-191(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 10, 12, 15, 14, 13 except 1=860(LC
8), 11=283(LC 17), 17=305(LC 15), 16=334(LC 15)

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

TOP CHORD	1-2=-953/512, 2-3=-598/333
BOT CHORD	10-11=-296/177
WEBS	2-17=-257/376, 3-16=-295/440

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 12, 14, 13 except (jt=lb) 1=424, 10=277, 17=371, 16=412, 15=191.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11, 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 10.2021

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

WARNING: Velly design parameters are READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MM-1475 (Rev. 3/25/2020) BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



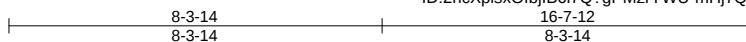
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss LAY3	Truss Type GABLE	Qty 1	Ply 1	Lot 116 W0 I45128893
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Wheeler Lumber, Waverly, KS - 66871,

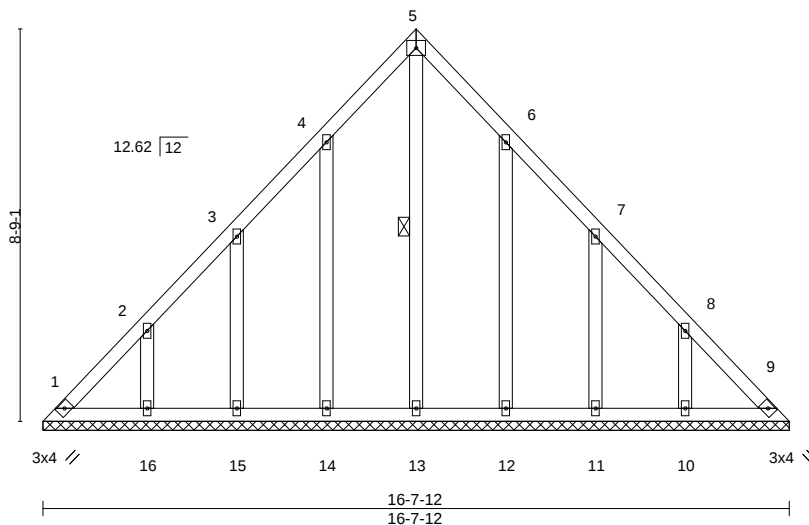
8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:44 2021 Page 1

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4x5 =

Scale = 1:51.4



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)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 82 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-13

REACTIONS.

All bearings 16-7-12.
(lb) - Max Horz 1=222(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-126(LC 8), 15=-122(LC 8), 16=-139(LC 8),
12=-125(LC 9), 11=-123(LC 9), 10=-139(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-285/187, 8-9=-250/135

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 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 14=126, 15=122, 16=139, 12=125, 11=123, 10=139.
- 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 10, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



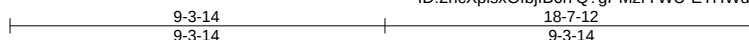
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss LAY4	Truss Type GABLE	Qty 1	Ply 1	Lot 116 W0 I45128894
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Wheeler Lumber, Waverly, KS - 66871,

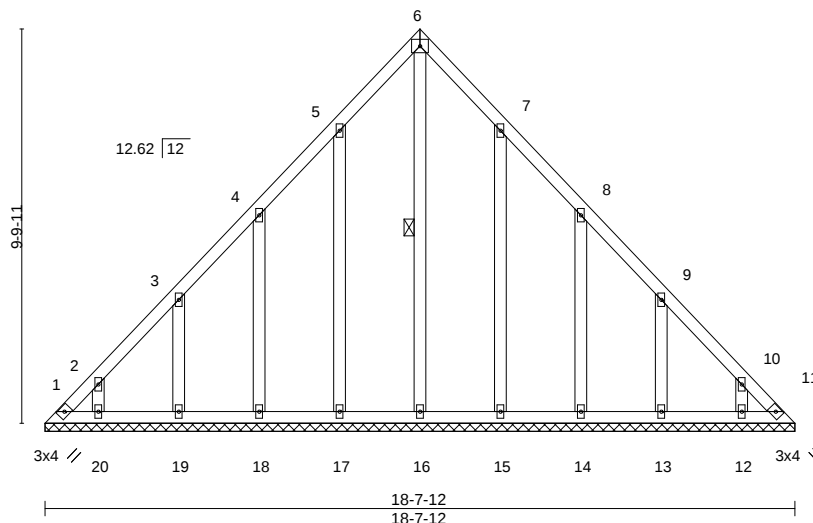
8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:45 2021 Page 1

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4x5 =

Scale = 1:57.3



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 0.06	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	11	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 98 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-16

REACTIONS.

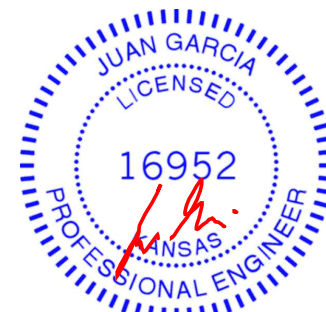
All bearings 18-7-12.
(lb) - Max Horz 1=-250(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-139(LC 6), 17=-124(LC 8), 18=-126(LC 8), 19=-127(LC 8), 20=-106(LC 8), 15=-121(LC 9), 14=-127(LC 9), 13=-126(LC 9), 12=-106(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 11, 16, 17, 18, 19, 20, 15, 14, 13, 12 except 1=-258(LC 8)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-361/219, 2-3=-263/185, 10-11=-322/161

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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 1=-139, 17=-124, 18=-126, 19=-127, 20=-106, 15=-121, 14=-127, 13=-126, 12=-106.
- 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 10, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



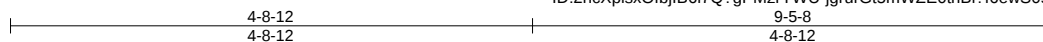
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss V1	Truss Type Valley	Qty 1	Ply 1	Lot 116 W0 I45128895
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Wheeler Lumber, Waverly, KS - 66871,

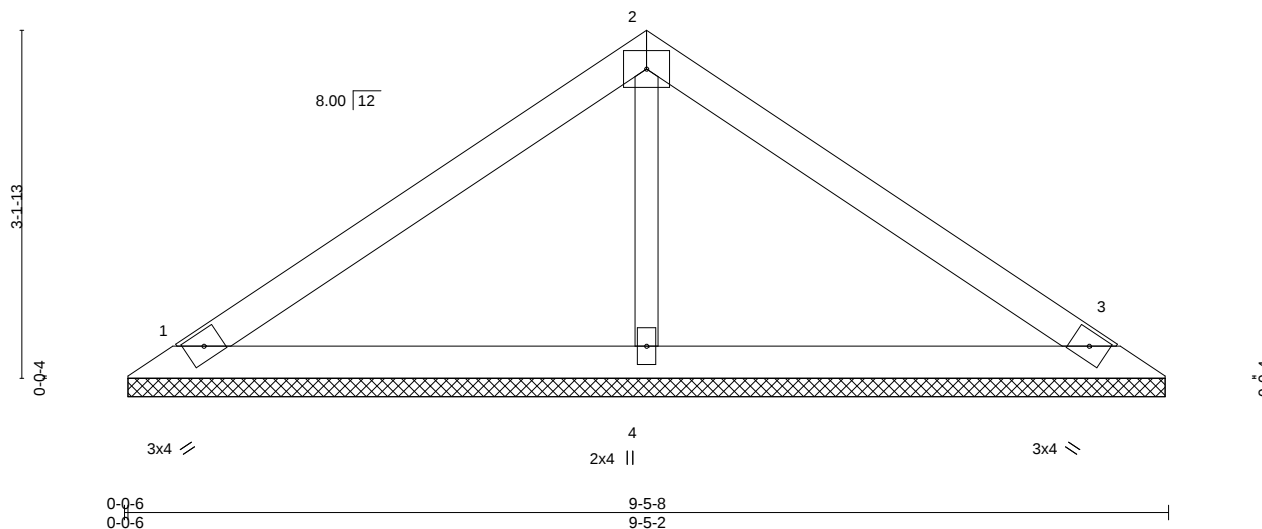
8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:46 2021 Page 1

ID:2ncXplsxOfbjlB6l7Q?gPMzrYWU-jgrurGt5mWZE0tnBi?fewS09H7FSLUmmBC2g3zcNZd



4x5 =

Scale = 1:20.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 24 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=9-4-12, 3=9-4-12, 4=9-4-12
Max Horz 1=74(LC 5)
Max Uplift 1=37(LC 8), 3=46(LC 9), 4=14(LC 8)
Max Grav 1=197(LC 1), 3=197(LC 1), 4=371(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 10, 2021

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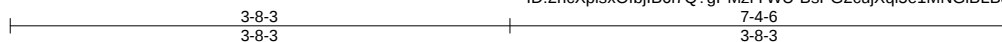
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 116 W0	I45128896
210328	V2	Valley	1	1		

Wheeler Lumber, Waverly, KS - 66871,

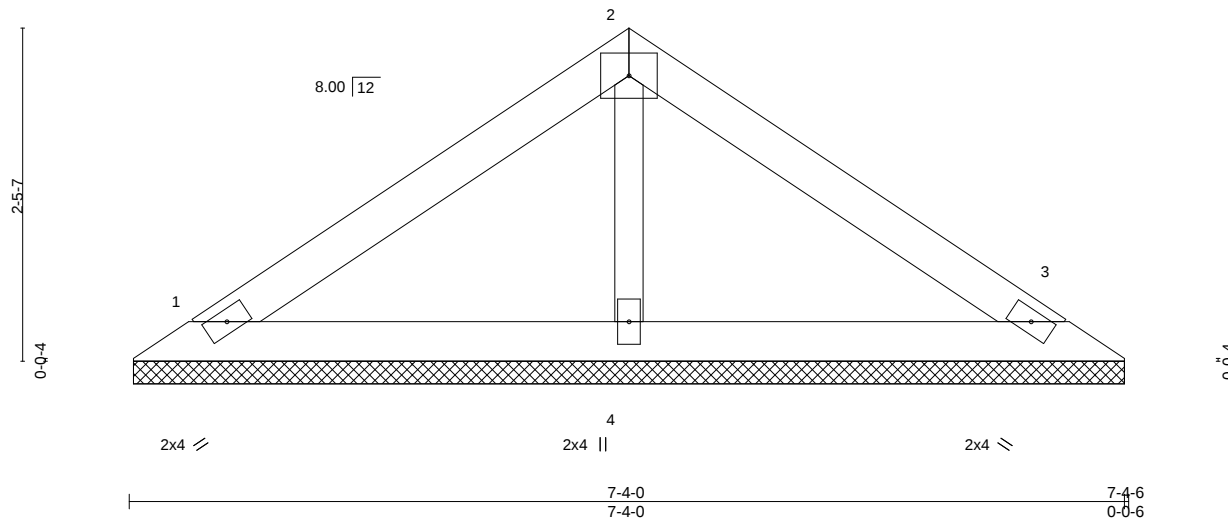
8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:47 2021 Page 1

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4x5 =

Scale = 1:17.0



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 0.19	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 0.03	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=7-3-10, 3=7-3-10, 4=7-3-10
Max Horz 1=-56(LC 4)
Max Uplift 1=-36(LC 8), 3=-43(LC 9)
Max Grav 1=162(LC 1), 3=162(LC 1), 4=252(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.



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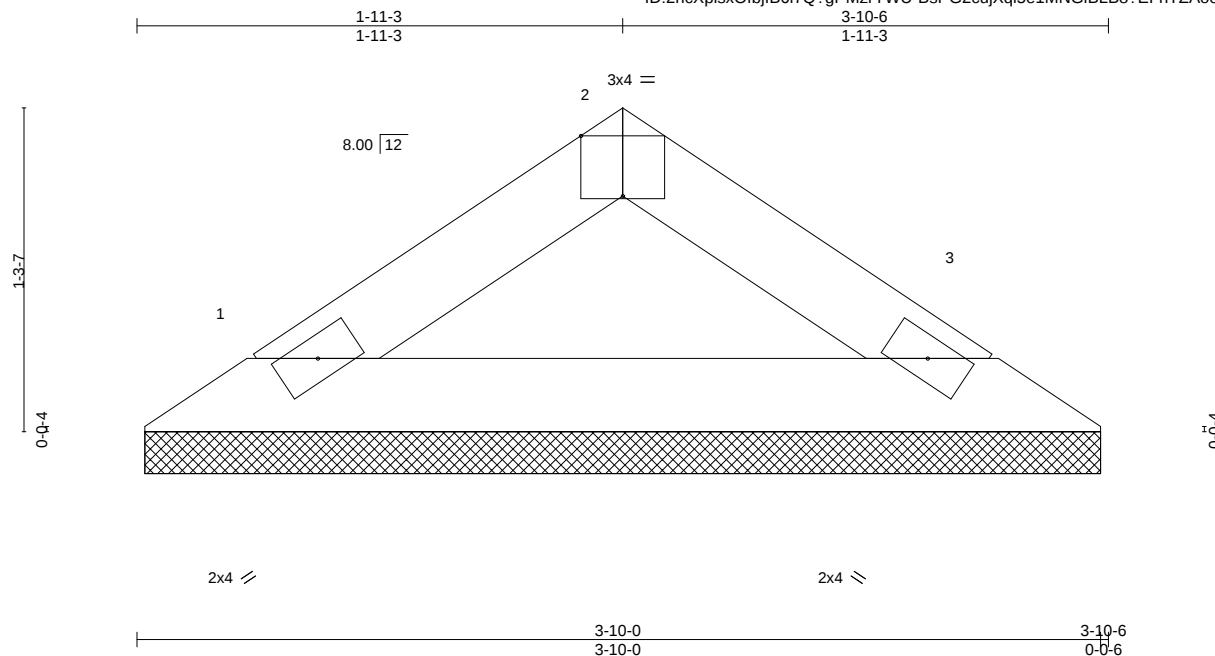
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210328	Truss V3	Truss Type Valley	Qty 1	Ply 1	Lot 116 W0 I45128897
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Mar 10 08:30:47 2021 Page 1

ID:2ncXplsXOfbjlB6l7Q?gPMzrYWU-BsPG2cujXqi5e1MNGiBLB8?EFHtZAoew?rybCVzcNZc



Scale = 1:9.2

Plate Offsets (X,Y)--		[2:0-2:0,Edge]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P				Weight: 8 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=3-9-10, 3=3-9-10
Max Horz 1=-25(LC 4)
Max Uplift 1=-15(LC 8), 3=-15(LC 9)
Max Grav 1=131(LC 1), 3=131(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.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

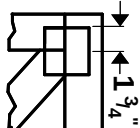
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



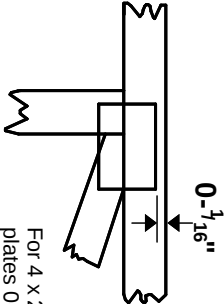
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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- $\frac{3}{16}$ " 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

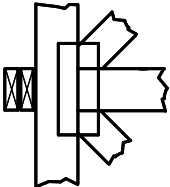
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



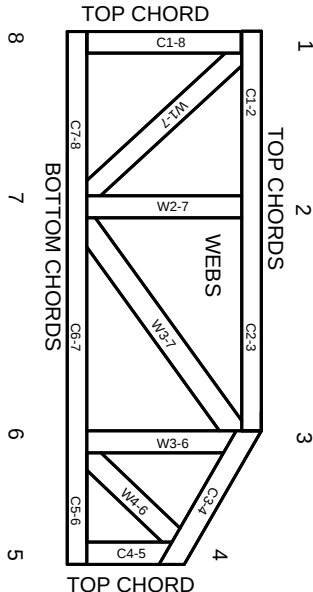
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: 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/TP1 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. 5/19/2020



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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.