



RE: 400399
Lot 94 MN

MiTek USA, Inc.

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

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

Design Code: IRC2018/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: N/A

Wind Speed: 115 mph

Roof Load: 45.0 psf

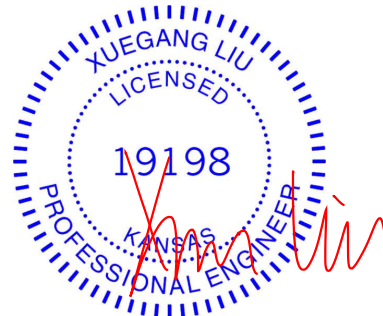
Floor Load: N/A psf

This package includes 50 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I41208980	A1	7/8/2020	27	I41209006	H1	7/8/2020
2	I41208981	A2	7/8/2020	28	I41209007	H2	7/8/2020
3	I41208982	A3	7/8/2020	29	I41209008	H3	7/8/2020
4	I41208983	A4	7/8/2020	30	I41209009	J1	7/8/2020
5	I41208984	B1	7/8/2020	31	I41209010	J2	7/8/2020
6	I41208985	B2	7/8/2020	32	I41209011	J3	7/8/2020
7	I41208986	B3	7/8/2020	33	I41209012	J4	7/8/2020
8	I41208987	C1	7/8/2020	34	I41209013	J5	7/8/2020
9	I41208988	C2	7/8/2020	35	I41209014	J7	7/8/2020
10	I41208989	C3	7/8/2020	36	I41209015	J8	7/8/2020
11	I41208990	C4	7/8/2020	37	I41209016	J9	7/8/2020
12	I41208991	C5	7/8/2020	38	I41209017	J10	7/8/2020
13	I41208992	C6	7/8/2020	39	I41209018	J11	7/8/2020
14	I41208993	D1	7/8/2020	40	I41209019	J12	7/8/2020
15	I41208994	D2	7/8/2020	41	I41209020	J13	7/8/2020
16	I41208995	D3	7/8/2020	42	I41209021	J14	7/8/2020
17	I41208996	D4	7/8/2020	43	I41209022	J15	7/8/2020
18	I41208997	D5	7/8/2020	44	I41209023	J16	7/8/2020
19	I41208998	D6	7/8/2020	45	I41209024	J17	7/8/2020
20	I41208999	D7	7/8/2020	46	I41209025	LAY1	7/8/2020
21	I41209000	E1	7/8/2020	47	I41209026	LAY2	7/8/2020
22	I41209001	E2	7/8/2020	48	I41209027	LAY3	7/8/2020
23	I41209002	E3	7/8/2020	49	I41209028	LAY4	7/8/2020
24	I41209003	E4	7/8/2020	50	I41209029	LAY5	7/8/2020
25	I41209004	G1	7/8/2020				
26	I41209005	G2	7/8/2020				

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.
Truss Design Engineer's Name: Liu, Xuegang
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.





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

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

Design Code: IRC2018/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: N/A

Wind Speed: 115 mph

Roof Load: 45.0 psf

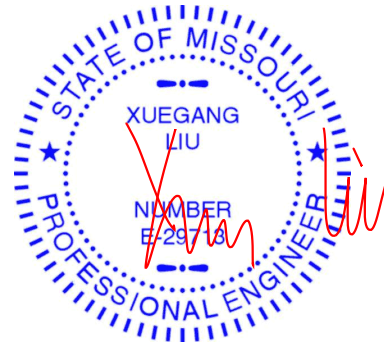
Floor Load: N/A psf

This package includes 50 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I41208980	A1	7/8/2020	27	I41209006	H1	7/8/2020
2	I41208981	A2	7/8/2020	28	I41209007	H2	7/8/2020
3	I41208982	A3	7/8/2020	29	I41209008	H3	7/8/2020
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5	I41208984	B1	7/8/2020	31	I41209010	J2	7/8/2020
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9	I41208988	C2	7/8/2020	35	I41209014	J7	7/8/2020
10	I41208989	C3	7/8/2020	36	I41209015	J8	7/8/2020
11	I41208990	C4	7/8/2020	37	I41209016	J9	7/8/2020
12	I41208991	C5	7/8/2020	38	I41209017	J10	7/8/2020
13	I41208992	C6	7/8/2020	39	I41209018	J11	7/8/2020
14	I41208993	D1	7/8/2020	40	I41209019	J12	7/8/2020
15	I41208994	D2	7/8/2020	41	I41209020	J13	7/8/2020
16	I41208995	D3	7/8/2020	42	I41209021	J14	7/8/2020
17	I41208996	D4	7/8/2020	43	I41209022	J15	7/8/2020
18	I41208997	D5	7/8/2020	44	I41209023	J16	7/8/2020
19	I41208998	D6	7/8/2020	45	I41209024	J17	7/8/2020
20	I41208999	D7	7/8/2020	46	I41209025	LAY1	7/8/2020
21	I41209000	E1	7/8/2020	47	I41209026	LAY2	7/8/2020
22	I41209001	E2	7/8/2020	48	I41209027	LAY3	7/8/2020
23	I41209002	E3	7/8/2020	49	I41209028	LAY4	7/8/2020
24	I41209003	E4	7/8/2020	50	I41209029	LAY5	7/8/2020
25	I41209004	G1	7/8/2020				
26	I41209005	G2	7/8/2020				

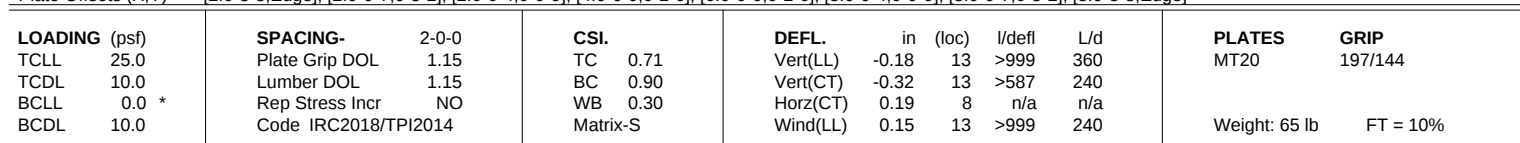
The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.
Truss Design Engineer's Name: Liu, Xuegang
My license renewal date for the state of Missouri is December 31, 2020.
Missouri COA: 001193

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.



July 08, 2020

Wheeler Lumber, Waverly, KS 66871 8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:19 2020 Page 1
ID:Lek3CAANj_gYbkvtCQHtmQzKvNM-J6tKhwiBR9XflaKEGUSN5e0YTqLomWAKVefVozJVDg
0-10-8 2-0-0 3-10-8 8-0-0 12-1-8 14-0-0 16-0-0 16-10-8
0-10-8 2-0-0 1-10-8 4-1-8 4-1-8 1-10-8 2-0-0 0-10-8
Scale = 1:29.9



BRACING- TOP CHORD	Structural wood sheathing directly applied or 4-6-11 oc purlins, except 2-0-0 oc purlins (2-7-12 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 8-6-11 oc bracing. Except: 8-8-0 oc bracing: 11-12

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

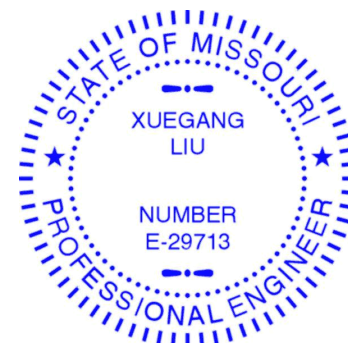
TOP CHORD	2-3=-689/134, 3-4=-2896/541, 4-5=-3507/671, 5-6=-3507/671, 6-7=-2897/540, 7-8=-689/134
BOT CHORD	3-15=-471/2707, 14-15=-471/2707, 13-14=-472/2738, 12-13=-470/2738, 11-12=-469/2707, 7-11=-469/2707
WEBS	4-14=-12/394, 4-13=-155/863, 5-13=-373/179, 6-13=-155/863, 6-12=-13/394

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 218 lb uplift at joint 2 and 218 lb uplift at joint 8.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 62 lb up at 3-10-8, 84 lb down and 62 lb up at 5-11-4, 84 lb down and 62 lb up at 8-0-0, and 84 lb down and 62 lb up at 10-0-12, and 78 lb down and 62 lb up at 12-1-8 on top chord, and 225 lb down and 71 lb up at 3-10-8, 40 lb down at 5-11-4, 40 lb down at 8-0-0, and 40 lb down at 10-0-12, and 225 lb down and 71 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

 **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



May 6.2020



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208980
400399	A1	HIP GIRDER	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:19 2020 Page 2
ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-J6tKhwiBR9XflaKEGUSN5e0YTcqLOmWAKVeFvOzJVDg

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-4=-70, 4-6=-70, 6-9=-70, 2-16=-20, 11-15=-20, 8-10=-20
- Concentrated Loads (lb)
 - Vert: 4=-42(F) 6=-42(F) 14=-225(F) 13=-34(F) 5=-42(F) 12=-225(F) 17=-42(F) 18=-42(F) 19=-34(F) 20=-34(F)

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208981
400399	A2	Hip	1	1		

Wheeler Lumber, Waverly, KS 66871

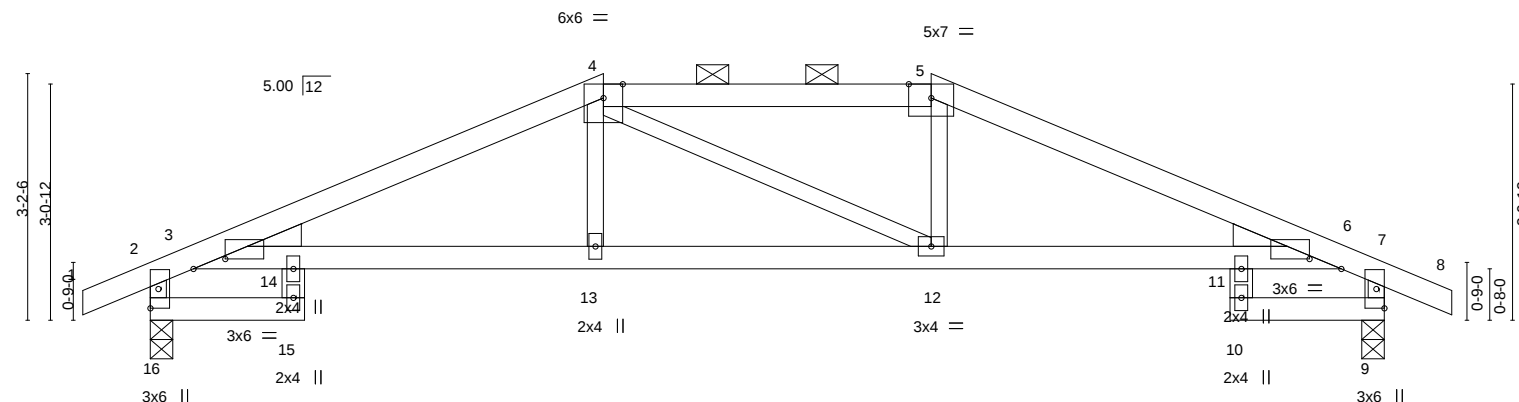
8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:20 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHmQzKvNM-nIRiuGjpCSgWwkvQqC_cesYpy0DO7GyJZ9OoRqzJVDf

Job Reference (optional)

0-10-8	2-0-0	5-10-8	10-1-8	14-0-0	16-0-0	16-10-8
0-10-8	2-0-0	3-10-8	4-3-0	3-10-8	2-0-0	0-10-8

Scale = 1:29.9



	2-0-0	5-10-8	10-1-8	14-0-0	16-0-0	
	2-0-0	3-10-8	4-3-0	3-10-8	2-0-0	

Plate Offsets (X, Y)-- [2:0-0-8,0-1-4], [3:0-4-15,0-1-9], [6:0-4-15,0-1-9], [7:0-0-8,0-1-4], [9:0-0-0,0-1-4], [16:0-0-0,0-1-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	-0.09 13-14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.72	Vert(CT)	-0.17 13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.17 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07 13-14	>999	240	Weight: 54 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2400F 2.0E *Except*
4-5: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
14-15,10-11: 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS.

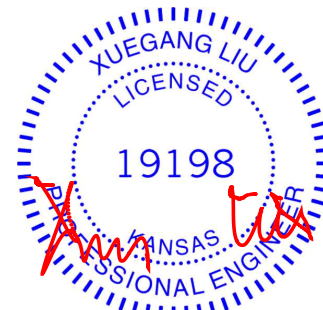
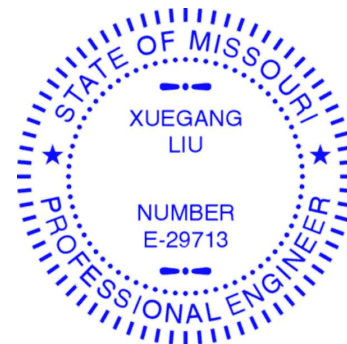
(size) 16=0-3-8, 9=0-3-8
Max Horz 16=-32(LC 13)
Max Uplift 16=-95(LC 8), 9=-95(LC 9)
Max Grav 16=779(LC 1), 9=779(LC 1)

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

TOP CHORD 2-3=-260/56, 3-4=-1415/147, 4-5=-1265/160, 5-6=-1415/148, 6-7=-260/45,
2-16=-785/118, 7-9=-785/113
BOT CHORD 3-14=-74/1271, 13-14=-74/1271, 12-13=-76/1264, 11-12=-79/1272, 6-11=-79/1272

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 95 lb uplift at joint 16 and 95 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 6,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208982
400399	A3	Hip	1	1		

Wheeler Lumber, Waverly, KS 66871

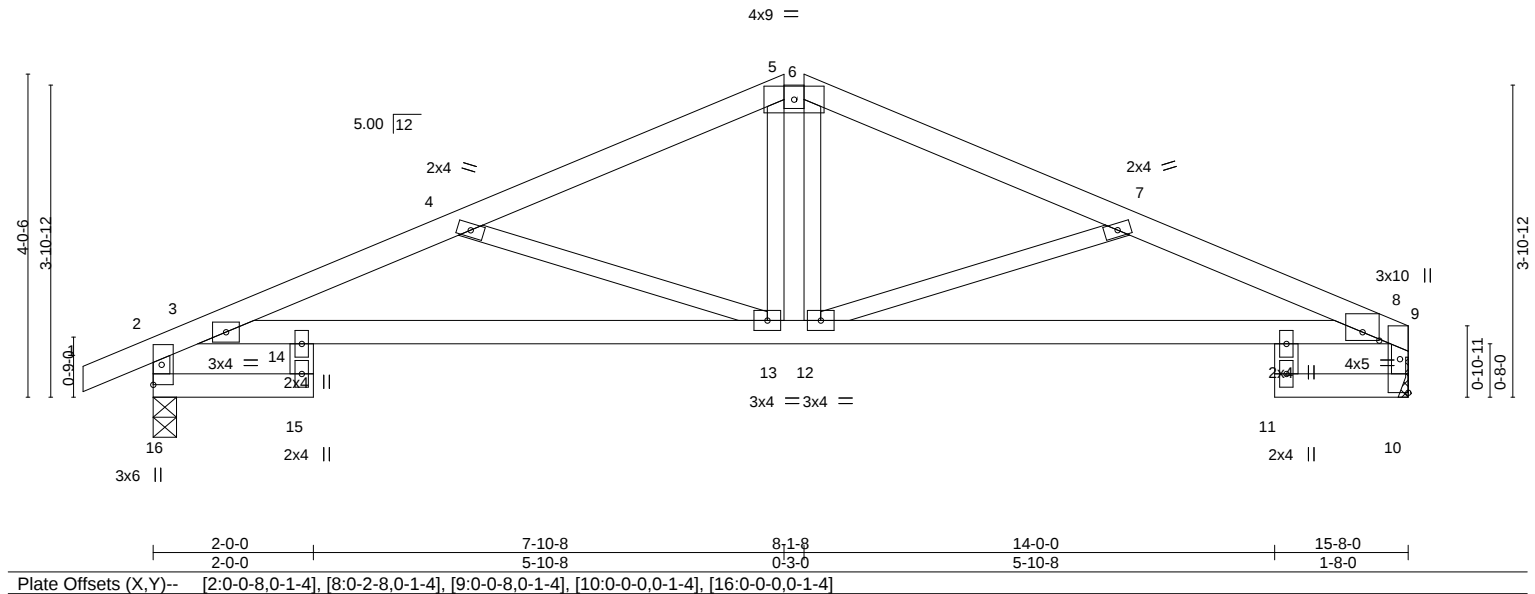
8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:21 2020 Page 1

ID:Lek3CAAnj_gYbKvtCQHtmQzKvNM-GU?46cjRzmoNYuUdOvVrA35?GQbmsh6Top7MzGzJVDe

Job Reference (optional)

-0-10-8	2-0-0	3-11-9	7-10-8	8-1-8	12-0-7	14-0-0	15-8-0
0-10-8	2-0-0	1-11-9	3-10-15	0-3-0	3-10-15	1-11-9	1-8-0

Scale = 1:28.8



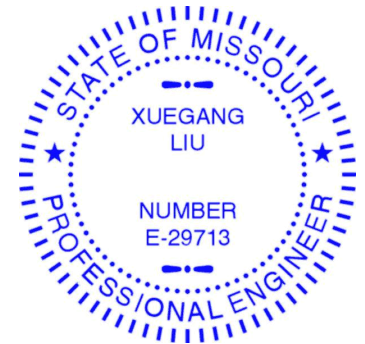
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	-0.08 13-14	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.19 13-14	>997	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.13 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.06 13-14	>999	240	Weight: 54 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 2100F 1.8E *Except*	TOP CHORD Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-1 max.): 5-6.
5-6: 2x4 SPF No.2, 6-9: 2x4 SPF 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 8-12
BOT CHORD 2x4 SPF No.2	
WEBS 2x3 SPF No.2 *Except*	
14-15,11-17: 2x4 SPF No.2	

REACTIONS.	(size) 16=0-3-8, 10=Mechanical
	Max Horz 16=54(LC 8)
	Max Uplift 16=-111(LC 8), 10=-70(LC 9)
	Max Grav 16=768(LC 1), 10=721(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-252/56, 3-4=-1557/245, 4-5=-1093/102, 5-6=-949/116, 6-7=-1086/110, 7-8=-1485/216, 9-10=-690/89, 2-16=-761/134
BOT CHORD	3-14=-236/1436, 13-14=-236/1436, 12-13=-33/949, 8-12=-173/1358
WEBS	5-13=-25/295, 7-12=-450/194, 4-13=-513/213

- 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 111 lb uplift at joint 16 and 70 lb uplift at joint 10.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 6, 2020

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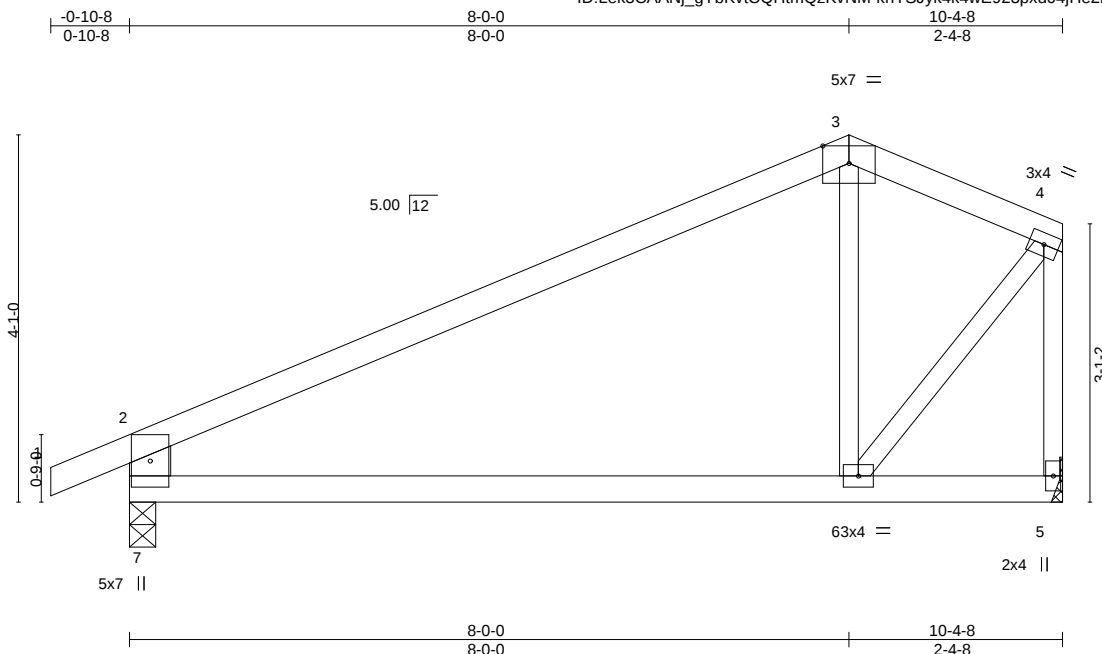


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208983
400399	A4	Common	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:22 2020 Page 1
ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-khYSJyk4k4wE923pxd04jHe2kq_Db9lc1TtvVjzJVDd



Scale = 1:25.6

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 0.77	Vert(LL)	-0.09	6-7	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.19	6-7	>637	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.04	6-7	>999	240		
									Weight: 34 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

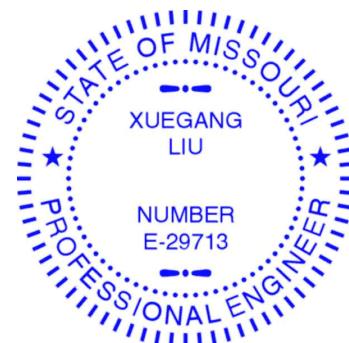
(size) 7=0-3-8, 5=Mechanical
Max Horz 7=128(LC 5)
Max Uplift 7=-93(LC 8), 5=-61(LC 8)
Max Grav 7=533(LC 1), 5=448(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-432/56, 3-4=-321/86, 4-5=-497/72, 2-7=-483/152
BOT CHORD 6-7=-51/299
WEBS 4-6=-85/485

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 93 lb uplift at joint 7 and 61 lb uplift at joint 5.
- 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.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208984
400399	B1	Common Supported Gable	1	1		

Wheeler Lumber, Waverly, KS 66871

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ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-Ct6qWliiVN25nCe?VKXJFUAOcDPAKePIF7cS29zJVDc

Job Reference (optional)

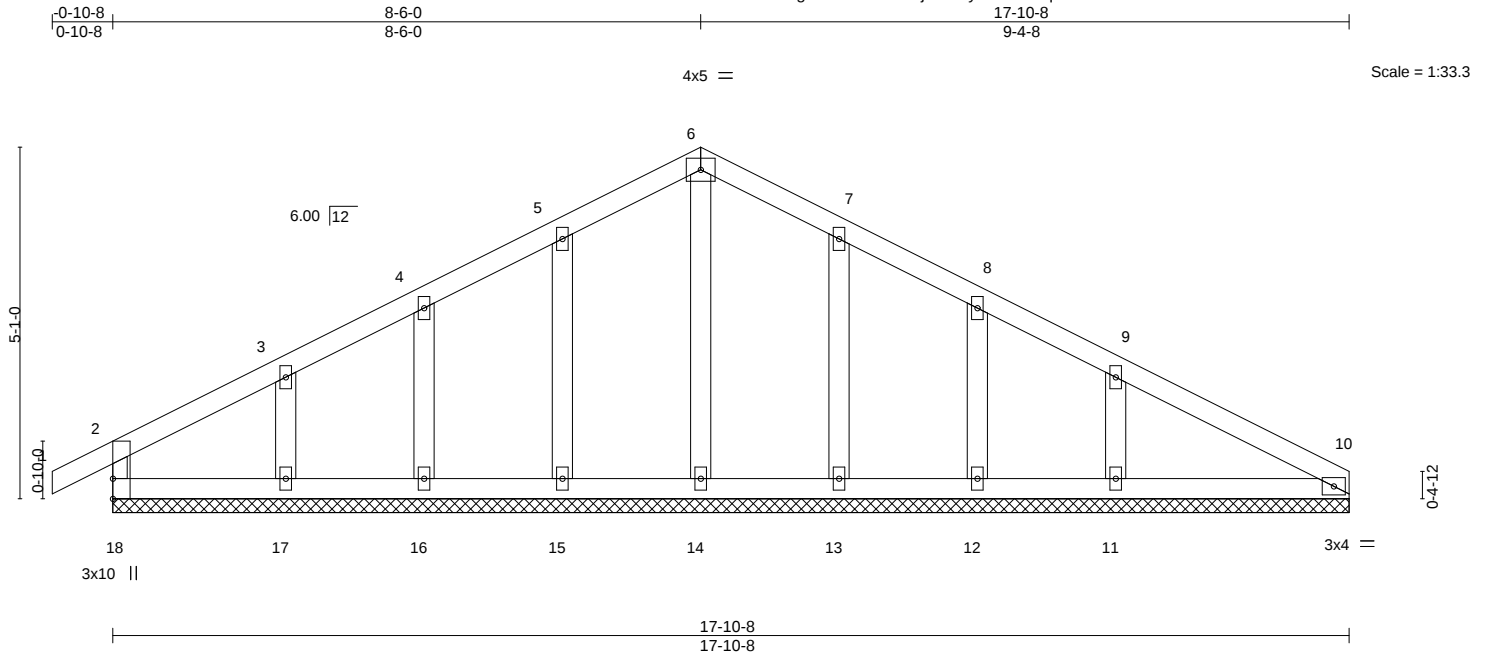


Plate Offsets (X,Y)--		[2:0-0-10,0-1-4], [18:0-0-0,0-1-4]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.12	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(LL) -0.00 1 n/r 120
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Vert(CT) -0.00 1 n/r 120
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.00 10 n/a n/a
			PLATES GRIP
			MT20 197/144
			Weight: 67 lb FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 17-10-8.
(lb) - Max Horz 18=-78(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 18, 10, 15, 16, 17, 13, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 18, 10, 14, 15, 16, 17, 13, 12 except 11=310(LC 22)

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.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 10, 15, 16, 17, 13, 12, 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208985
400399	B2	Roof Special	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-g3gDkemKGhAxPMDC322YoiJL8ddT3vXvUnM0abzJVDb

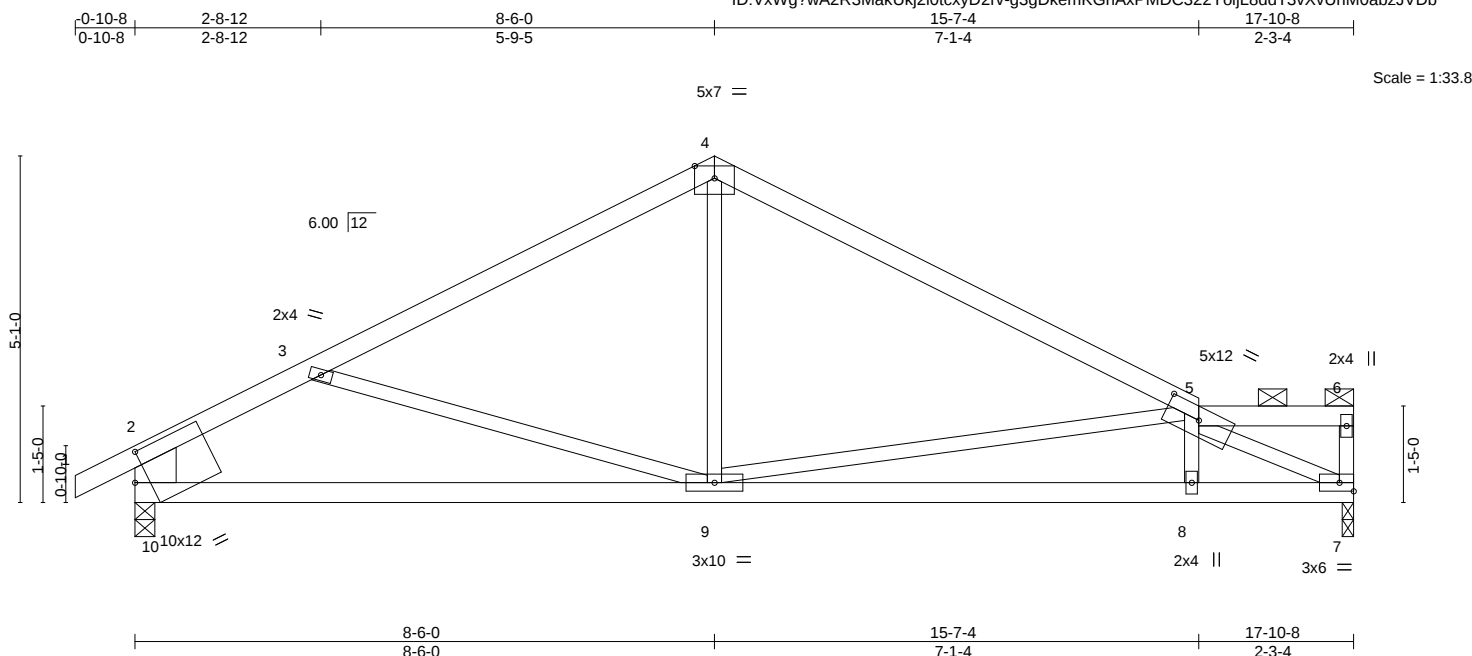


Plate Offsets (X,Y)-- [2:0-4-1,0-0-0], [5:0-6-0,0-2-4], [10:0-2-7,0-4-14], [10:0-3-4,0-1-10]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.10	9-10	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.21	9-10	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.03	7	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.06	8-9	>999	240	Weight: 63 lb	FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-10: 2x8 SP DSS

BRACING-

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

REACTIONS.

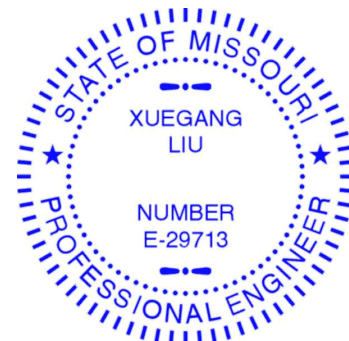
(size) 7=0-2-0, 10=0-3-8
Max Horz 10=101(LC 5)
Max Uplift 7=-103(LC 9), 10=-120(LC 8)
Max Grav 7=783(LC 1), 10=871(LC 1)

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

TOP CHORD 2-3=-1068/196, 3-4=-927/130, 4-5=-974/118, 2-10=-786/162
BOT CHORD 9-10=-199/842, 8-9=-205/1391, 7-8=-211/1384
WEBS 4-9=0/394, 5-9=-652/199, 5-7=-1549/232

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 at joint(s) 7.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=103, 10=120.
- 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.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208986
400399	B3	Roof Special	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-8GEbx_my1?lo0VoOdLznLvGZO1vmoQO2jR5Z61zJVda

0-10-8	2-3-8	8-6-0	13-11-4	15-8-8	17-10-8
0-10-8	2-3-8	6-2-8	5-5-4	1-9-4	2-2-0

Scale = 1:34.3

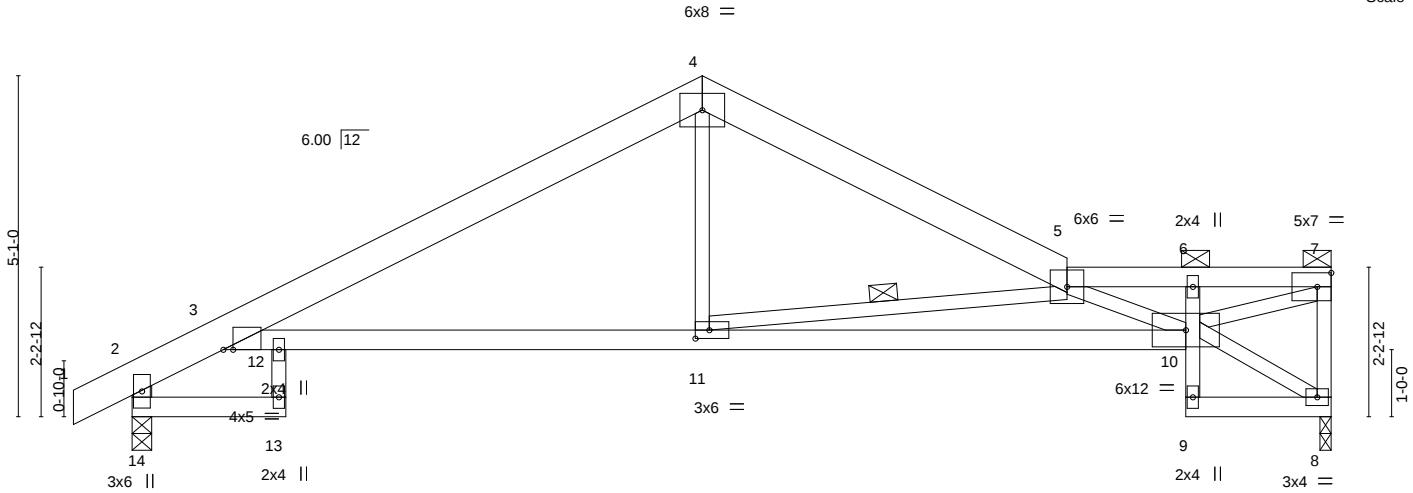


Plate Offsets (X,Y)--	[3:0-1-12,0-0-0], [11:0-2-8,0-1-8]
-----------------------	------------------------------------

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.81	Vert(LL)	-0.22 11-12	>961	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.42 11-12	>505	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.28 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.19 11-12	>999	240	Weight: 72 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
5-7: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
6-9: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-14: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-12 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 9-7-10 oc bracing.
WEBS 1 Row at midpt 5-11

REACTIONS.

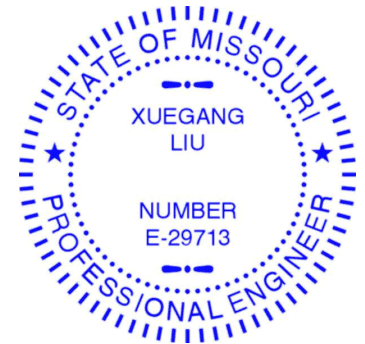
(size) 8=0-2-0, 14=0-3-8
Max Horz 14=124(LC 5)
Max Uplift 8=108(LC 9), 14=118(LC 8)
Max Grav 8=791(LC 1), 14=867(LC 1)

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

TOP CHORD 2-3=-307/38, 3-4=-1239/136, 4-5=-1238/152, 5-6=-1475/162, 6-7=-1396/176,
7-8=-744/115, 2-14=-875/146
BOT CHORD 3-12=-66/1075, 11-12=-66/1075, 10-11=-367/2335
WEBS 4-11=0/488, 5-11=-1280/306, 5-10=-966/200, 7-10=-209/1536

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 at joint(s) 8.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=108, 14=118.
- 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.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208987
400399	C1	GABLE	1	1		

Wheeler Lumber, Waverly, KS 66871

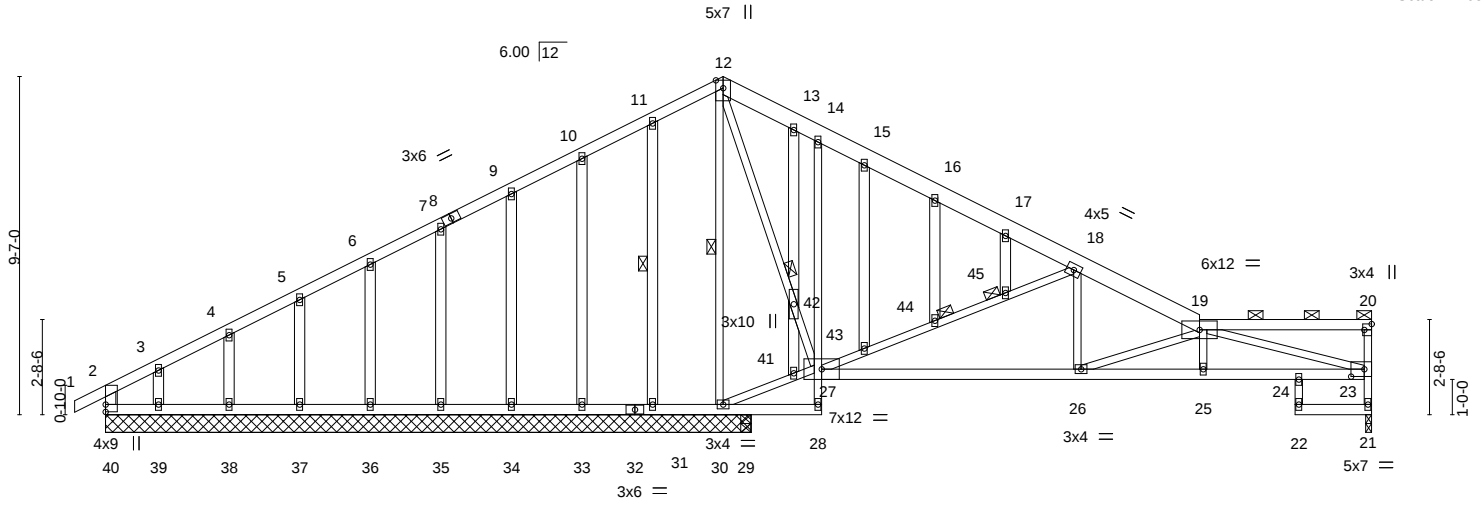
8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:27 2020 Page 1

ID:VxWg?wa2R3MakUkj2l0tcxyD2rv-4eMLMgoCYcYWGpxmkAcFQKL_jrhWGF7LakagBwzJVDY

Job Reference (optional)

0-10-8	17-6-0	20-3-8	27-6-7	31-0-0	33-8-8	35-10-8
0-10-8	17-6-0	2-9-8	7-2-15	3-5-8	2-8-8	2-2-0

Scale = 1:65.3



	17-6-0	18-3-8	20-3-8	27-6-7	31-0-0	33-8-8	35-10-8
	17-6-0	0-9-8	2-0-0	7-2-15	3-5-8	2-8-8	2-2-0

Plate Offsets (X,Y)-- [2:0-0-14,0-1-12], [20:Edge,0-2-8], [23:0-4-8,0-2-8], [40:0-0-0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.09	26-27	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.21	26-27	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.05	21	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.06	25-26	>999		
								Weight: 203 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
12-19: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
14-28: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-40: 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 19-20.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
10-0-0 oc bracing: 26-27,25-26,24-25,21-22.
WEBS 1 Row at midpt 12-30, 11-31
JOINTS 1 Brace at Jt(s): 20, 42, 44, 45

REACTIONS.

All bearings 18-3-8 except (jt=length) 21=0-2-0, 29=0-3-8.
(lb) - Max Horz 40=195(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 21, 31, 33, 34, 35, 36, 37, 38, 29 except 40=-486(LC 22), 30=-144(LC 9), 39=-150(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 40, 33, 34, 35, 36, 37, 38 except 21=557(LC 22), 30=1044(LC 1), 31=267(LC 1), 39=447(LC 1), 29=332(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-211/664, 3-4=-149/603, 4-5=-106/612, 5-6=-78/610, 6-7=-52/610, 7-9=-26/611, 9-10=-0/608, 10-11=0/620, 11-12=0/583, 12-13=0/337, 13-14=0/346, 14-15=0/422, 15-16=-2/401, 16-17=-15/346, 17-18=-19/259, 18-19=-691/127, 21-23=-531/110, 2-40=-97/375
BOT CHORD 39-40=-518/183, 38-39=-518/183, 37-38=-518/183, 36-37=-518/183, 35-36=-518/183, 34-35=-518/183, 33-34=-518/183, 31-33=-518/183, 30-31=-518/183, 26-27=-117/594, 25-26=-228/1159, 24-25=-225/1162, 23-24=-225/1162
WEBS 12-30=-1056/113, 30-41=-482/218, 27-41=-445/203, 12-42=-213/687, 27-42=-202/651, 27-43=-980/259, 43-44=-957/253, 44-45=-950/249, 18-45=-977/257, 18-26=0/422, 19-26=-610/120, 19-23=-1114/191, 3-39=-275/123

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208987
400399	C1	GABLE	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-4eMLMgoCYcYWGpxmkAcFQKL_jrhWGF7LakagBwzJVDY

- NOTES-**
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 21.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 31, 33, 34, 35, 36, 37, 38, 29 except (jt=lb) 40=486, 30=144, 39=150.
 - 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.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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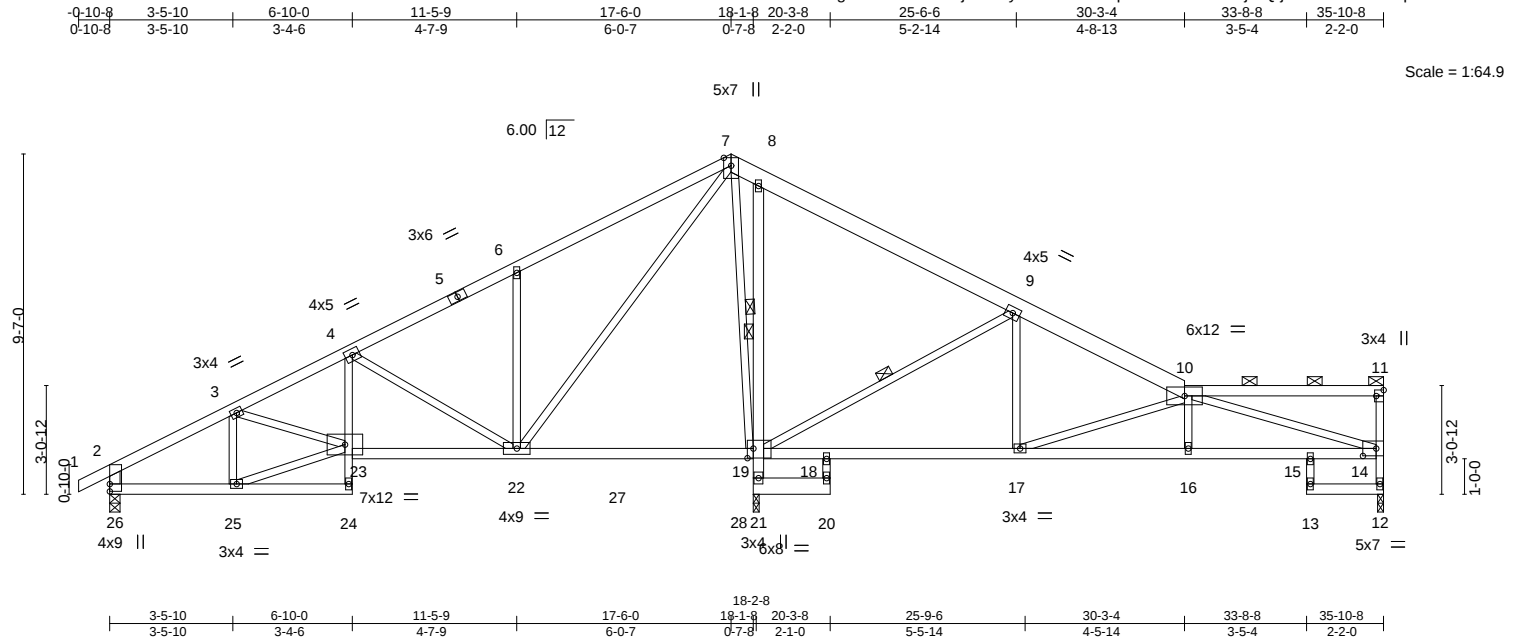
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	
400399	C2	Roof Special	1	1		I41208988
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:29 2020 Page 1

ID: VxWg?wA2R3MakUkj2l0tcxyD2rv-11U6nLpT4DoEV759sbejVlQljeNyK7Nee23nFpzJVDW



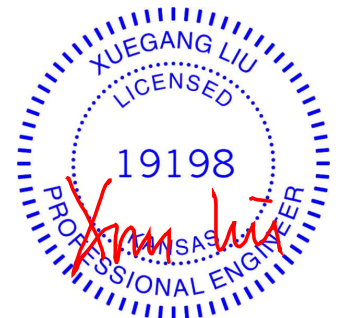
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	-0.09 19-22	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.15 19-22	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.04 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.04 22-23	>999	240	Weight: 167 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 7-10: 2x6 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.): 10-11.
BOT CHORD 2x4 SPF No.2 *Except* 4-24: 2x3 SPF No.2, 20-21: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 8-21,2-26: 2x4 SPF No.2	WEBS 1 Row at midpt 8-21, 7-19, 9-19

REACTIONS.	(size) 12=0-2-0, 26=0-3-8, 21=0-2-0 (req. 0-4-0)
Max Horz	26=206(LC 5)
Max Uplift	12=-84(LC 9), 26=-114(LC 8), 21=-247(LC 9)
Max Grav	12=483(LC 24), 26=622(LC 21), 21=2557(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-696/122, 3-4=-733/206, 4-6=-212/403, 6-7=-251/403, 7-8=0/834, 8-9=-79/1099, 9-10=-172/353, 12-14=-446/97, 2-26=-537/126
BOT CHORD	25-26=-213/545, 4-23=-46/311, 22-23=-228/638, 19-22=-768/193, 18-19=-297/121, 17-18=-297/121, 16-17=-156/747, 15-16=-153/752, 14-15=-153/752
WEBS	19-21=-2523/259, 8-19=-672/275, 23-25=-217/549, 4-22=-589/203, 6-22=-419/232, 7-22=-309/1084, 7-19=-1255/176, 9-19=-886/248, 9-17=0/481, 10-17=-710/138, 10-14=-713/117

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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, with BCDL = 10.0psf.
 - WARNING: Required bearing size at joint(s) 21 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 26=114, 21=247.
 - 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.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208989
400399	C3	Roof Special	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:30 2020 Page 1

ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-VD1U_hq5rXw57HgLPi9y2zzR42jhTarnsipKnFzJVDV

0-10-8 3-5-10 6-10-0 11-5-9 17-6-0 18-1-8 20-3-8 23-6-7 28-7-4 33-8-8 35-10-8
0-10-8 3-5-10 3-4-6 4-7-9 6-0-7 0-7-8 2-2-0 3-2-15 5-0-13 5-1-4 2-2-0

5x7 ||

Scale = 1:68.3

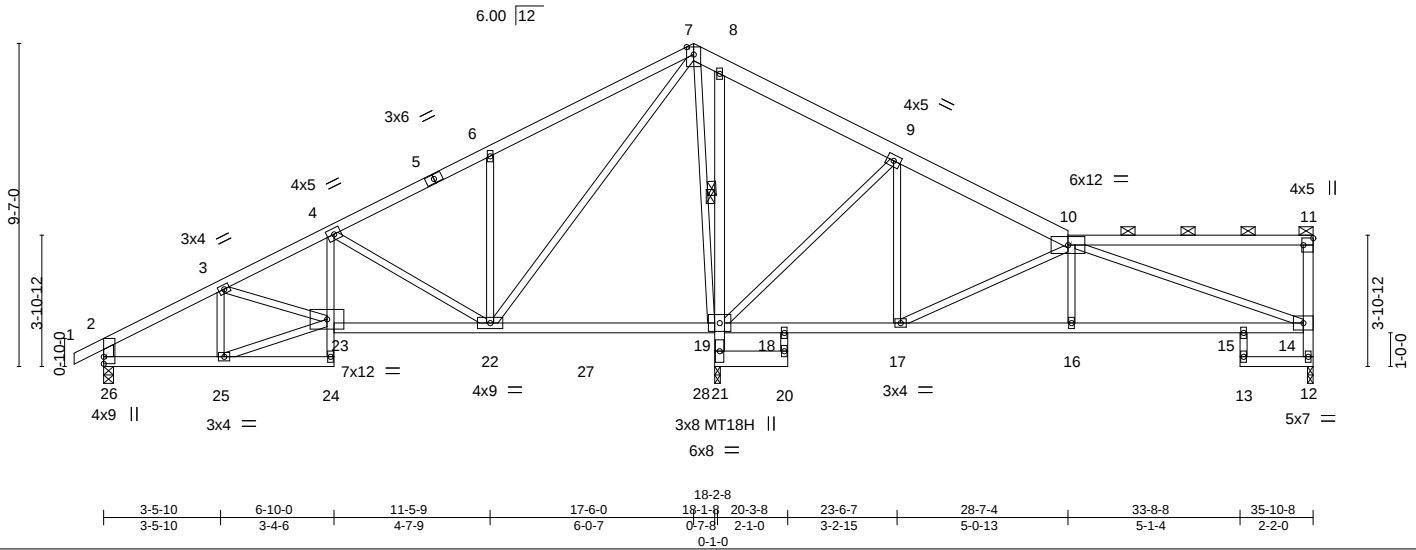


Plate Offsets (X,Y)-- [2:0-0-14,0-1-12], [11:Edge,0-3-8], [26:0-0-0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.09	19-22	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.16	19-22	>999	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.04	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05	22-23	>999		
								Weight: 170 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
7-10: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
4-24: 2x3 SPF No.2, 20-21: 2x6 SPF No.2
WEBS 2x3 SPF No.2 *Except*
11-12: 2x4 SPF No.2, 2-26: 2x4 SPF 2100F 1.8E

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.): 10-11.
BOT CHORD Rigid ceiling directly applied or 3-8-1 oc bracing. Except:
1 Row at midpt 8-19
1 Row at midpt 7-19

REACTIONS.

(size) 12=0-2-0, 26=0-3-8, 21=0-2-0 (req. 0-3-14)
Max Horz 26=230(LC 5)
Max Uplift 12=-94(LC 9), 26=-114(LC 8), 21=-234(LC 9)
Max Grav 12=519(LC 24), 26=633(LC 21), 21=2484(LC 2)

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

TOP CHORD 2-3=-713/123, 3-4=-761/208, 4-6=-238/307, 6-7=-276/307, 7-8=0/790, 8-9=-45/1003,
9-10=-57/430, 12-14=-474/109, 2-26=-547/126
BOT CHORD 25-26=-216/560, 4-23=-47/316, 22-23=-232/663, 19-22=-695/138, 19-21=-2426/250,
8-19=-511/147, 18-19=-370/126, 17-18=-370/126, 16-17=-141/600, 15-16=-137/604,
14-15=-137/604
WEBS 23-25=-220/564, 4-22=-592/204, 6-22=-419/233, 7-22=-308/1087, 7-19=-1241/202,
9-19=-742/209, 9-17=-10/521, 10-17=-763/146, 10-16=0/262, 10-14=-541/159

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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.
- 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, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 21 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 26=-114, 21=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.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	
400399	C4	Roof Special	1	1		I41208990
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:32 2020 Page 1

ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-Rc9EPNsLN8ApMaqkXjBQ7O2o1sOCxT64K0IRs8zJVDt

0-10-8	3-5-10	6-10-0	11-5-9	17-6-0	18-1-8	20-3-8	23-6-6	29-0-11	33-8-8	35-10-8
0-10-8	3-5-10	3-4-6	4-7-9	6-0-7	0-7-8	2-2-0	3-2-14	5-6-4	4-7-13	2-2-0

5x7 ||

Scale = 1:68.3

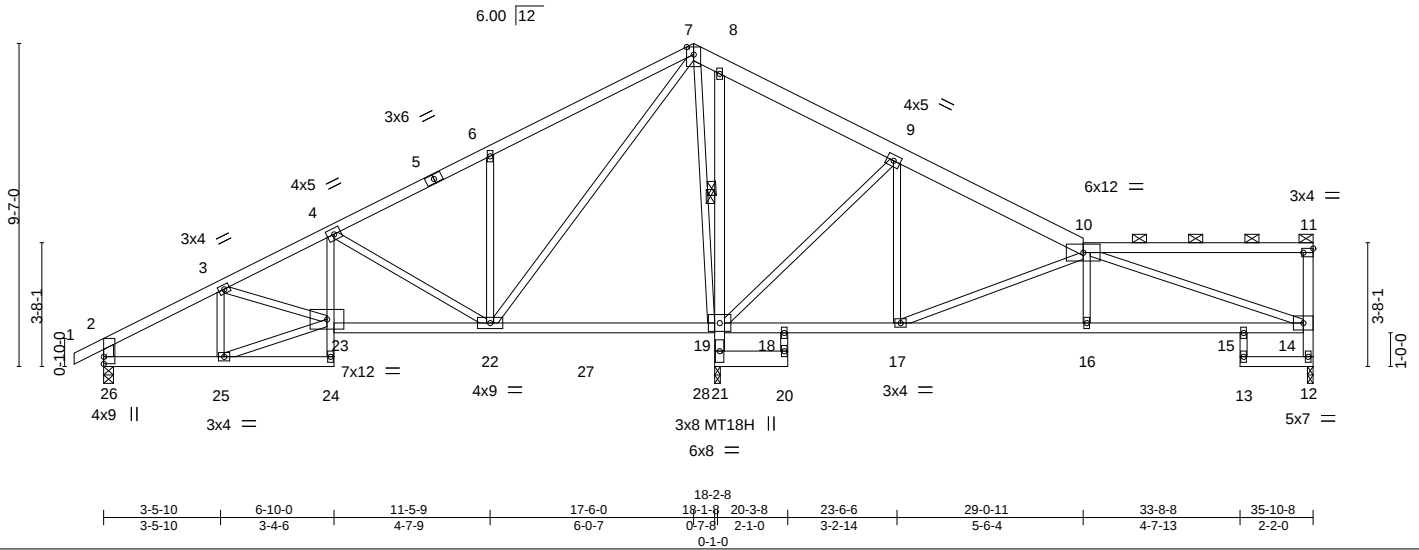


Plate Offsets (X,Y)-- [2:0-0-14,0-1-12], [11:Edge,0-1-8], [26:0-0-0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	-0.09	19-22	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.16	19-22	>999	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.03	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.04	22-23	>999		
								Weight: 170 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
7-10: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
4-24: 2x3 SPF No.2, 20-21: 2x6 SPF No.2
WEBS 2x3 SPF No.2 *Except*
11-12: 2x4 SPF No.2, 2-26: 2x4 SPF 2100F 1.8E

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.): 10-11.
BOT CHORD Rigid ceiling directly applied or 3-7-14 oc bracing. Except:
1 Row at midpt 8-19
WEBS 1 Row at midpt 7-19

REACTIONS.

(size) 12=0-2-0, 26=0-3-8, 21=0-2-0 (req. 0-3-15)
Max Horz 26=224(LC 7)
Max Uplift 12=-93(LC 9), 26=-115(LC 8), 21=-234(LC 9)
Max Grav 12=511(LC 24), 26=630(LC 21), 21=2499(LC 2)

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

TOP CHORD 2-3=-709/123, 3-4=-754/209, 4-6=-231/326, 6-7=-270/326, 7-8=0/814, 8-9=-43/1022, 9-10=-59/450, 12-14=-468/107, 2-26=-544/127
BOT CHORD 25-26=-216/556, 4-23=-47/315, 22-23=-233/657, 19-22=-712/149, 19-21=-2442/250, 8-19=-497/138, 18-19=-376/125, 17-18=-376/125, 16-17=-147/642, 15-16=-144/648, 14-15=-144/648
WEBS 23-25=-220/560, 4-22=-591/204, 6-22=-420/233, 7-22=-308/1087, 7-19=-1260/204, 9-19=-752/215, 9-17=0/505, 10-17=-801/156, 10-16=0/259, 10-14=-588/140

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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.
- 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, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 21 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 26=115, 21=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.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

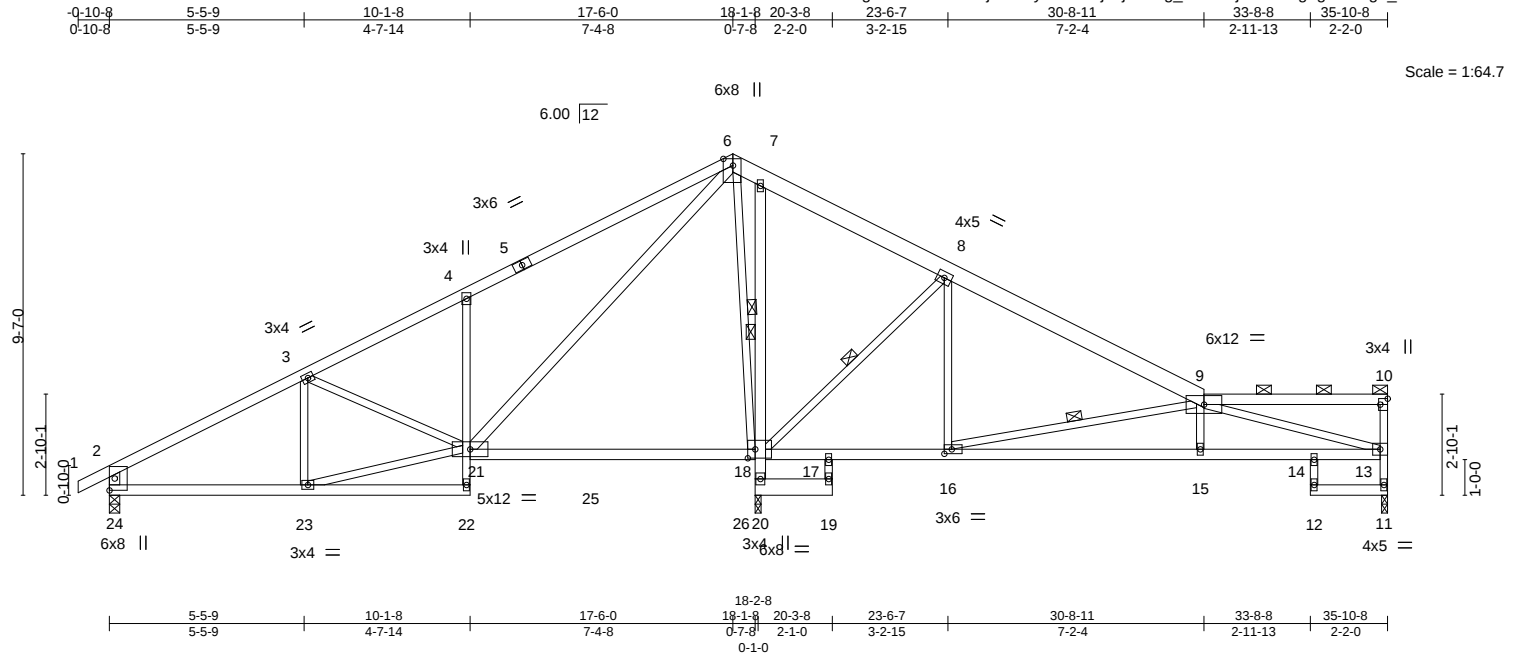
Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208991
400399	C5	Roof Special	1	1		

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:33 2020 Page 1

ID: VxWg?wA2R3MakUkj2l0tcxyD2rv-vojdjtz8Sig_kPw5RjffbbzNFgogwLEZg1_OazJVDS

Job Reference (optional)



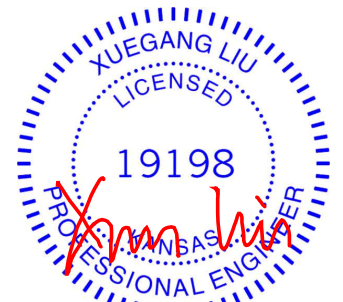
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.25 18-21	>887	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.41 18-21	>537	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.04 11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05 15-16	>999	240	Weight: 169 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	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.): 9-10.
6-9: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-8-11 oc bracing.
BOT CHORD 2x4 SPF No.2 *Except*	WEBS 1 Row at midpt 7-20, 6-18, 8-18, 9-16
4-22: 2x3 SPF No.2, 19-20: 2x6 SPF No.2	
WEBS 2x3 SPF No.2 *Except*	
7-20,6-21,2-24: 2x4 SPF No.2	

REACTIONS.	(size) 11=0-2-0, 24=0-3-8, 20=0-2-0 (req. 0-4-0)
	Max Horz 24=200(LC 5)
	Max Uplift 11=-97(LC 9), 24=-137(LC 8), 20=-220(LC 9)
	Max Grav 11=478(LC 24), 24=632(LC 21), 20=2559(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-702/161, 3-4=-398/326, 4-6=-490/350, 6-7=0/925, 7-8=-17/1074, 8-9=-16/495, 11-13=-450/109, 2-24=-565/167
BOT CHORD	23-24=-224/539, 4-21=-493/262, 18-21=-758/176, 17-18=-386/70, 16-17=-386/70, 15-16=-202/890, 14-15=-208/882, 13-14=-208/882
WEBS	18-20=-2525/231, 7-18=-350/85, 21-23=-181/577, 3-21=-366/74, 6-21=-355/1205, 6-18=-1381/219, 8-18=-793/244, 8-16=0/453, 9-16=-1061/212, 9-15=0/271, 9-13=-850/173

- 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 2x4 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) WARNING: Required bearing size at joint(s) 20 greater than input bearing size.
 - 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 24=137, 20=220.
 - 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.



May 6, 2020

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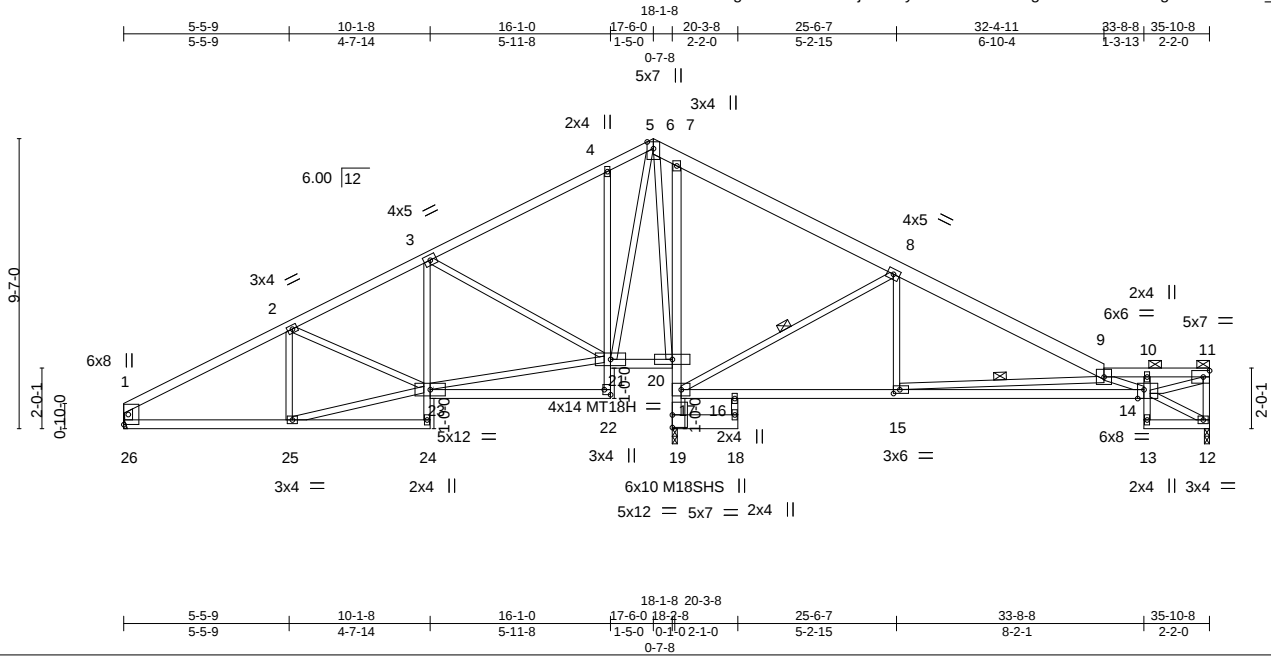
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208992
400399	C6	Roof Special	1	1		

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:35 2020 Page 1

ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-rBrN2PuDg3YOD2ZJCsl7l0gMv3Lx8rXX0_W5TSzJVDQ



Scale = 1:76.1

Plate Offsets (X,Y)-- [1:0-0-14,0-1-12], [6:0-0-10,0-1-5], [14:0-2-8,Edge], [15:0-2-8,0-1-8], [22:Edge,0-2-8], [26:0-0-0,0-1-12]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.16 14-15 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.33 14-15 >635	240	MT18H 197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	-0.17 19 n/a	n/a	M18SHS 197/144
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.08 15-16 >999	240	Weight: 184 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
5-9: 2x6 SP DSS
BOT CHORD 2x4 SPF No.2 *Except*
3-24,4-22: 2x3 SPF No.2, 7-19: 2x4 SPF 2100F 1.8E
18-19: 2x6 SPF No.2
WEBS 2x3 SPF No.2 *Except*
1-26: 2x4 SPF 2400F 2.0E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-3 max.): 9-11.
BOT CHORD Rigid ceiling directly applied or 5-0-8 oc bracing.
WEBS 1 Row at midpt 8-17, 9-15

REACTIONS.

(size) 12=0-2-0, 26=Mechanical, 19=0-2-0 (req. 0-3-6)
Max Horz 26=166(LC 5)
Max Uplift 12=-112(LC 9), 26=-111(LC 8), 19=-187(LC 9)
Max Grav 12=563(LC 22), 26=638(LC 21), 19=2168(LC 1)

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

TOP CHORD 1-2=-843/158, 2-3=-578/181, 3-4=0/548, 4-5=0/445, 5-6=-288/185, 6-7=0/522,
7-8=-5/795, 8-9=-482/126, 9-10=-1307/274, 10-11=-1266/268, 11-12=-523/125,
1-26=-547/137
BOT CHORD 25-26=-220/669, 3-23=-1/360, 4-21=-390/192, 20-21=-567/211, 17-19=-2190/219,
17-20=-1666/193, 7-20=-721/234, 16-17=-63/381, 15-16=-63/381, 14-15=-462/1708
WEBS 23-25=-199/655, 2-23=-308/88, 21-23=-151/375, 3-21=-766/224, 5-21=-268/805,
6-20=-765/53, 8-17=-975/284, 8-15=0/463, 9-15=-1335/401, 9-14=-458/187,
11-14=-293/1323

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 19 greater than input bearing size.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=112, 26=111, 19=187.
- 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.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

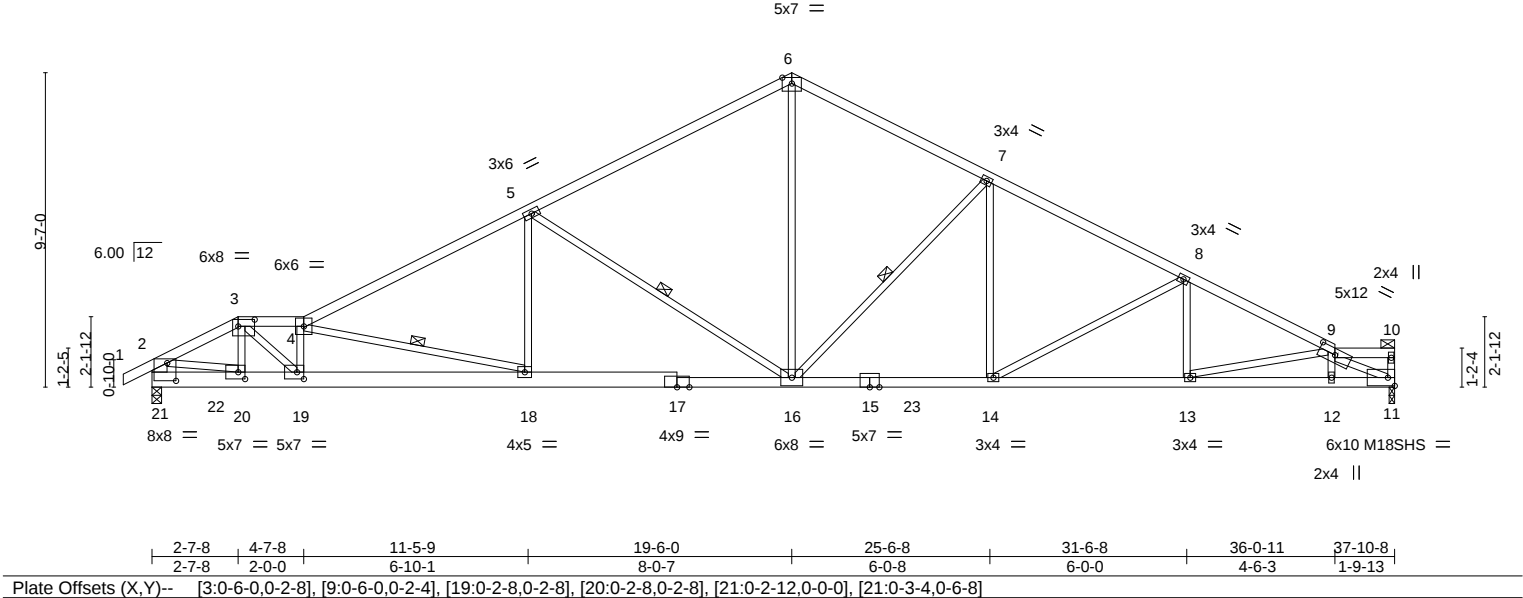
Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208993
400399	D1	Roof Special Girder	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:37 2020 Page 1
ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-oZy7S4wUChp5TLiKGnbqRleYtzPck?pTI?CXLzJVDO

0-10-8 2-7-8 4-7-8 11-5-9 19-6-0 25-6-8 31-6-8 36-0-11 37-10-8
0-10-8 2-7-8 2-0-0 6-10-1 8-0-7 6-0-8 6-0-0 4-6-3 1-9-13

Scale = 1:70.2



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.25 14-16 >999 360	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.43 14-16 >999 240	M18SHS		197/144	
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.15 11 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.16 18-19 >999 240				
								Weight: 159 lb FT = 10%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2 *Except* 4-6: 2x4 SPF 2100F 1.8E	TOP CHORD	Structural wood sheathing directly applied or 2-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-7 max.): 3-4, 9-10.
BOT CHORD	2x4 SPF No.2 *Except* 17-21: 2x6 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 9-2-7 oc bracing.
WEBS	2x3 SPF No.2 *Except* 2-21: 2x6 SPF No.2	WEBS	1 Row at midpt 4-18, 5-16, 7-16

REACTIONS.	
(size)	11=0-2-0 (req. 0-2-12), 21=0-3-8
Max Horz	21=153(LC 12)
Max Uplift	11=-213(LC 9), 21=-334(LC 8)
Max Grav	11=1767(LC 2), 21=1996(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2720/415, 3-4=-3855/533, 4-5=-3188/400, 5-6=-2155/314, 6-7=-2121/325, 7-8=-2752/343, 8-9=-3288/387, 2-21=-1789/310
BOT CHORD	20-21=-231/609, 19-20=-477/2366, 18-19=-637/3934, 16-18=-375/2811, 14-16=-150/2395, 13-14=-305/2901, 12-13=-354/2953, 11-12=-359/2953
WEBS	3-20=-378/114, 3-19=-244/2033, 4-19=-1352/233, 4-18=-1163/271, 5-18=0/632, 5-16=-1174/328, 6-16=-138/1452, 7-16=-835/250, 7-14=-12/518, 8-14=-581/177, 9-11=-3249/389, 2-20=-251/1862

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=213, 21=334.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 229 lb down and 103 lb up at 1-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

LOAD CASE(S) Standard

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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



May 6, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN
400399	D1	Roof Special Girder	1	1	I41208993
Job Reference (optional)					

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-6=-70, 6-9=-70, 9-10=-70, 11-21=-20
Concentrated Loads (lb)
Vert: 22=-229(F)

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208995
400399	D3	Roof Special	1	1	Job Reference (optional)	

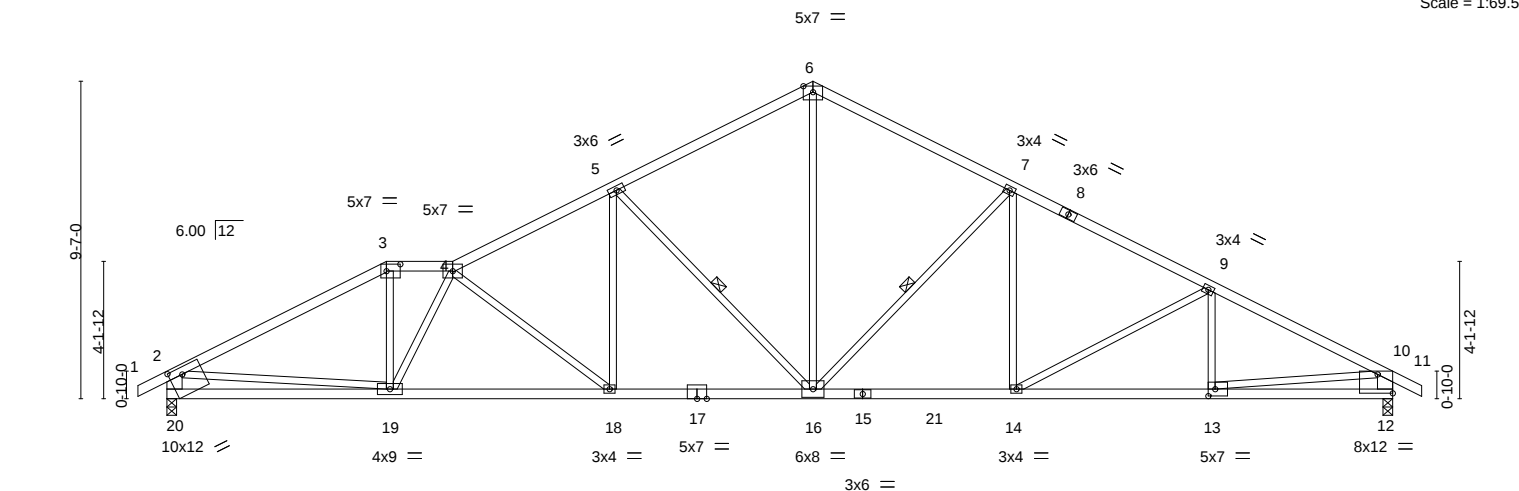
Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:39 2020 Page 1

ID: VxWg?wA2R3MakUkj2l0tcxyD2rv-ky4utmxxkl3pifs4Rhp3vsrzwwgP4jF6xcUlcEzJVDM

0-10-8 6-7-8 8-7-8 13-5-9 19-6-0 25-6-7 31-6-7 37-0-0 37-10-8
0-10-8 6-7-8 2-0-0 4-10-1 6-0-7 6-0-7 6-0-0 5-5-9 0-10-8

Scale = 1:69.5



	6-7-8	14-0-12	19-6-0	25-6-7	31-6-7	37-0-0
	6-7-8	7-5-4	5-5-4	6-0-7	6-0-0	5-5-9
Plate Offsets (X,Y)--	[3:0-5-0,0-2-8], [12:Edge,0-6-13], [12:0-2-12,0-0-0], [13:0-2-8,0-2-8], [20:0-4-12,0-2-8], [20:0-2-7,0-1-4]					

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.22	16-18	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.39	16-18	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.11	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.13	18	>999		
								Weight: 152 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-20,10-12: 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 (3-8-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 9-4-6 oc bracing.
WEBS 1 Row at midpt 5-16, 7-16

REACTIONS.

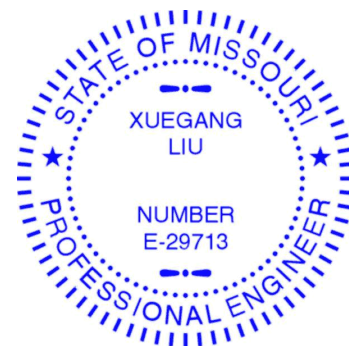
(size) 20=0-3-8, 12=0-3-8
Max Horz 20=-143(LC 6)
Max Uplift 20=-240(LC 8), 12=-223(LC 9)
Max Grav 20=1789(LC 2), 12=1792(LC 2)

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

TOP CHORD 2-3=-2800/336, 3-4=-2441/344, 4-5=-2711/347, 5-6=-2021/296, 6-7=-2023/311, 7-9=-2547/309, 9-10=-2791/316, 2-20=-1674/275, 10-12=-1693/248
BOT CHORD 19-20=-321/683, 18-19=-393/2899, 16-18=-259/2396, 14-16=-101/2215, 13-14=-208/2428, 12-13=-90/421
WEBS 3-19=-21/981, 4-19=-1036/120, 4-18=-642/172, 5-18=-31/654, 5-16=-954/263, 6-16=-144/1414, 7-16=-719/235, 7-14=0/383, 9-14=-299/138, 2-19=-22/1822, 10-13=-118/2022

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) 20=240, 12=223.
- 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.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208996
400399	D4	Roof Special	1	1	Job Reference (optional)	

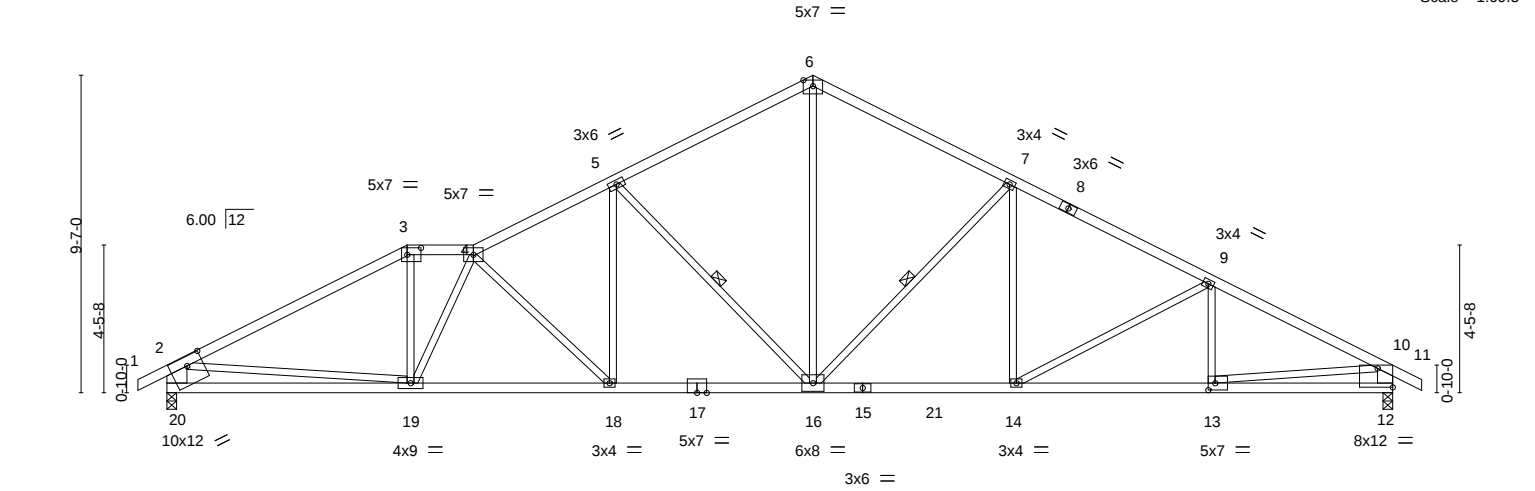
Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:40 2020 Page 1

ID:VxWg?wa2R3MakUkj2I0tcxyD2rv-C8eG56yMVCBgKpRG?PLIS3N5E41JpAWGAGes8gzJVDL

0-10-8 7-3-0 9-3-0 13-5-9 19-6-0 25-6-7 31-6-7 37-0-0 37-10-8
0-10-8 7-3-0 2-0-0 4-2-9 6-0-7 6-0-7 6-0-0 5-5-9 0-10-8

Scale = 1:69.5



	7-3-0	14-4-8	19-6-0	25-6-7	31-6-7	37-0-0	
	7-3-0	7-1-8	5-1-8	6-0-7	6-0-0	5-5-9	
Plate Offsets (X,Y)--	[3:0-5-0,0-2-8], [12:Edge,0-6-13], [12:0-2-12,0-0-0], [13:0-2-8,0-2-8], [20:0-5-12,0-3-4], [20:0-3-4,0-1-10]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.22 16-18	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.39 16-18	>999	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.11 12	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.13 18	>999	240
							PLATES
							MT20
							GRIP
							197/144
							Weight: 153 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-20: 2x8 SP DSS, 10-12: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-1 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 9-8-3 oc bracing.
WEBS 1 Row at midpt 5-16, 7-16

REACTIONS.

(size) 20=0-3-8, 12=0-3-8
Max Horz 20=-143(LC 6)
Max Uplift 20=-241(LC 8), 12=-222(LC 9)
Max Grav 20=1790(LC 2), 12=1789(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2767/333, 3-4=-2401/344, 4-5=-2681/349, 5-6=-2013/296, 6-7=-2016/310, 7-9=-2540/308, 9-10=-2785/316, 2-20=-1665/281, 10-12=-1690/248
BOT CHORD 19-20=-343/729, 18-19=-367/2796, 16-18=-257/2378, 14-16=-100/2208, 13-14=-207/2423, 12-13=-90/420
WEBS 3-19=-16/931, 4-19=-951/111, 4-18=-587/154, 5-18=-38/648, 5-16=-936/262, 6-16=-142/1405, 7-16=-718/235, 7-14=0/382, 9-14=-300/138, 2-19=0/1741, 10-13=-118/2017

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) 20=241, 12=222.
- 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.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208997
400399	D5	Roof Special	1	1		

Wheeler Lumber, Waverly, KS 66871

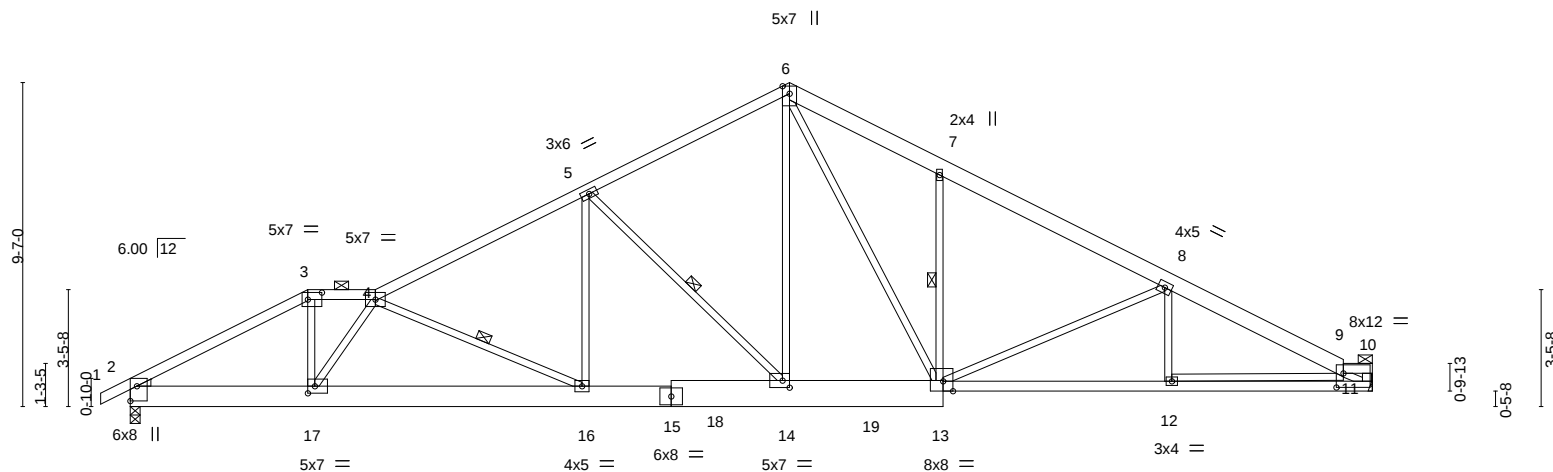
Job Reference (optional)

8.240 s Apr 4 2020 MiTek Industries, Inc. Wed May 6 09:27:02 2020 Page 1

ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-P6mMVIDjqu_3V8WJAAEanzw4O9swaiSbwCkVZHzJGB7

0-10-8 5-3-0 7-3-0 13-5-9 19-6-0 24-0-8 30-8-7 35-10-9 36-8-14
0-10-8 5-3-0 2-0-0 6-2-10 6-0-7 4-6-8 6-7-15 5-2-2 0-10-5

Scale = 1:68.1



	5-3-0	7-3-0	13-5-9	19-6-0	24-0-8	30-8-7	36-8-14
	5-3-0	2-0-0	6-2-10	6-0-7	4-6-8	6-7-15	6-0-7

Plate Offsets (X,Y)-- [2:Edge,0-2-5], [2:0-1-3,0-5-11], [2:0-0-9,0-1-3], [3:0-5-0,0-2-8], [9:0-2-8,0-5-0], [10:0-1-12,0-0-0], [13:0-3-8,Edge], [14:0-2-8,0-2-8], [17:0-2-8,0-2-8]

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 0.69	Vert(LL)	-0.16 12-13	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.30 12-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.08 11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.11 16	>999	240	Weight: 210 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
6-9: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-15: 2x8 SP DSS, 7-13: 2x3 SPF No.2, 13-15: 2x10 SP DSS
WEBS 2x3 SPF No.2 *Except*
10-11: 2x4 SPF No.2

WEDGE
Left: 2x3 SPF No.2

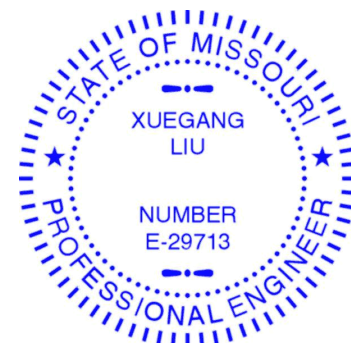
REACTIONS. (lb/size) 11=1639/Mechanical, 2=1713/0-3-8
Max Horz 2=171(LC 8)
Max Uplift 11=-196(LC 9), 2=-239(LC 8)
Max Grav 11=1719(LC 2), 2=1782(LC 2)

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

TOP CHORD 2-3=-2999/346, 3-4=-2559/342, 4-5=-2811/343, 5-6=-2084/301, 6-7=-2504/423,
7-8=-2521/293, 8-9=-3181/355
BOT CHORD 2-17=-386/2514, 16-17=-487/3229, 16-18=-282/2455, 15-18=-282/2455, 14-15=-282/2458,
14-19=-101/1781, 13-19=-101/1781, 12-13=-271/2820, 11-12=-262/2080, 7-13=-437/236
WEBS 3-17=-81/1292, 4-17=-1255/185, 4-16=-859/227, 5-16=-0/616, 5-14=-951/256,
6-14=-140/929, 6-13=-266/904, 8-13=-714/215, 8-12=0/273, 9-12=-27/739,
9-11=-2321/348

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 11 and 239 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208998
400399	D6	Roof Special	1	1		

Wheeler Lumber, Waverly, KS 66871

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ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-cjKOj8_FnXZFBGArgXu?3i?iZH2e0TZisESWI?zJVDI

Job Reference (optional)

0-10-8	3-3-0	5-3-0	11-5-9	19-6-0	24-0-8	29-6-6	34-2-9	36-8-14
0-10-8	3-3-0	2-0-0	6-2-9	8-0-7	4-6-8	5-5-14	4-8-3	2-6-5

Scale = 1:70.2

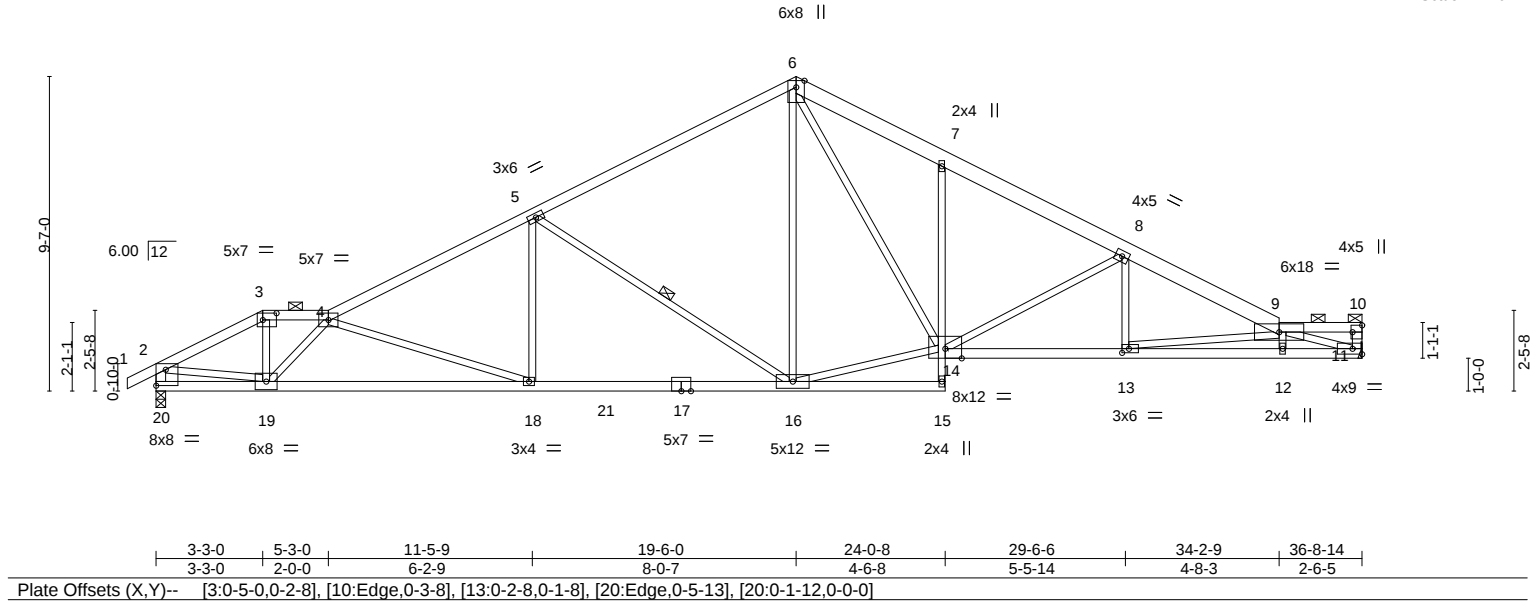


Plate Offsets (X,Y)--		[3:0-5-0,0-2-8], [10:Edge,0-3-8], [13:0-2-8,0-1-8], [20:Edge,0-5-13], [20:0-1-12,0-0-0]
LOADING (psf)	SPACING-	2-0-0
TCLL 25.0	Plate Grip DOL	1.15
TCDL 10.0	Lumber DOL	1.15
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code IRC2018/TPI2014	
CSI.	DEFL.	in (loc) l/defl L/d
TC 0.51	Vert(LL) -0.27	16-18 >999 360
BC 0.85	Vert(CT) -0.49	16-18 >896 240
WB 0.93	Horz(CT) 0.15	11 n/a n/a
Matrix-S	Wind(LL) 0.15	14 >999 240
PLATES	GRIP	
MT20	197/144	
Weight: 161 lb		FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 3-4-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-10 max.): 3-4, 9-10.
4-6: 2x4 SPF 2100F 1.8E, 6-9: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-8-5 oc bracing.
BOT CHORD 2x4 SPF 2100F 1.8E *Except*	WEBS 1 Row at midpt 5-16
7-15: 2x3 SPF No.2, 15-17: 2x4 SPF No.2	
WEBS 2x3 SPF No.2 *Except*	
10-11,2-20: 2x4 SPF No.2	

REACTIONS.	(size) 11=Mechanical, 20=0-3-8
Max Horz 20=174(LC 8)	
Max Uplift 11=-197(LC 9), 20=-238(LC 8)	
Max Grav 11=1696(LC 2), 20=1767(LC 2)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-2620/302, 3-4=-2339/294, 4-5=-3001/368, 5-6=-2029/284, 6-7=-2692/426, 7-8=-2725/313, 8-9=-3544/386, 9-10=-360/39, 2-20=-1715/237	
BOT CHORD 19-20=-227/338, 18-19=-562/3434, 16-18=-364/2648, 7-14=-357/198, 13-14=-306/3152, 12-13=-469/4171, 11-12=-459/4157	
WEBS 3-19=-74/1056, 4-19=-1658/254, 4-18=-832/209, 5-18=0/609, 5-16=-1113/298, 6-16=-61/551, 14-16=-103/1694, 6-14=-281/1356, 8-14=-905/212, 8-13=0/459, 9-13=-1034/165, 9-11=-4012/433, 2-19=-166/2051	

- 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=197, 20=238.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41208999
400399	D7	Roof Special Girder	1	1		

Wheeler Lumber, Waverly, KS 66871

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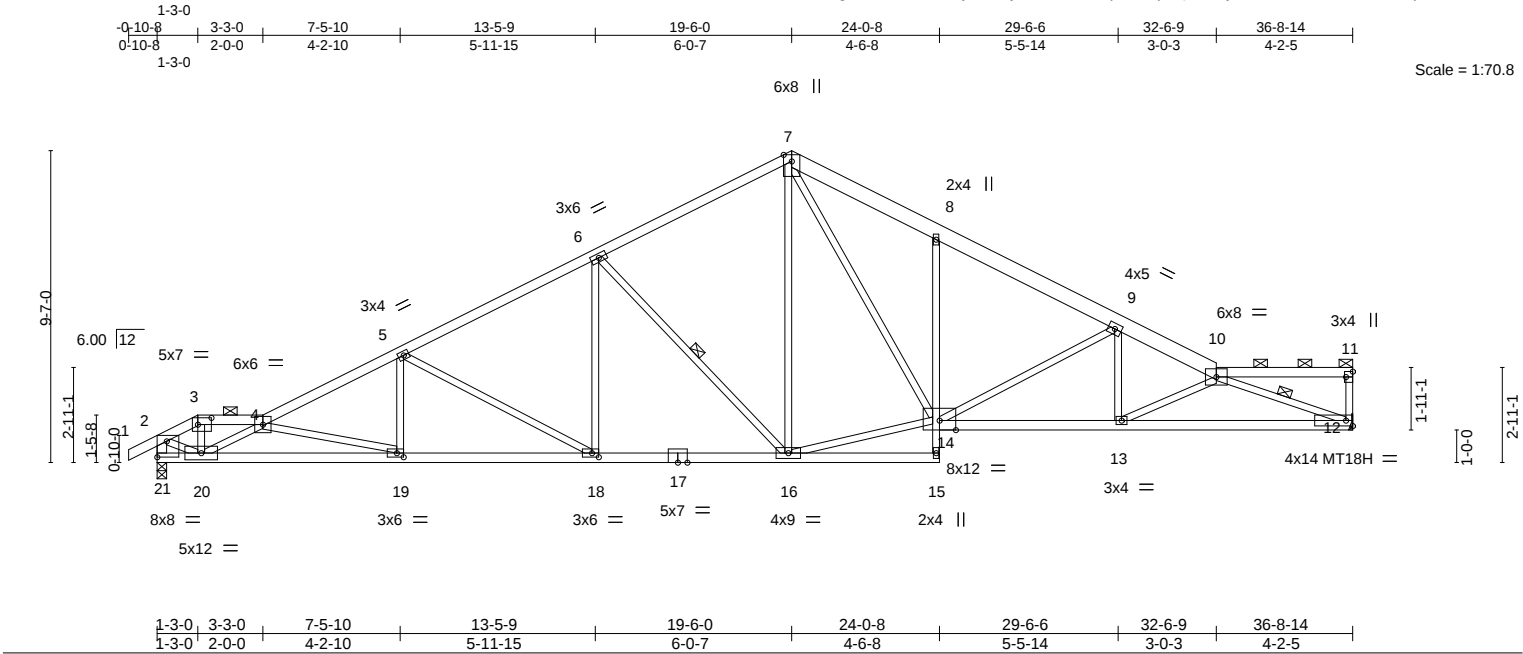


Plate Offsets (X,Y)--										[3:0-5-0,0-2-8], [11:Edge,0-2-8], [18:0-2-8,0-1-8], [19:0-2-8,0-1-8], [21:0-1-12,0-0-0], [21:Edge,0-5-13]									
LOADING (psf)		SPACING- 2-0-0			CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP		
TCLL	25.0	Plate Grip DOL 1.15			TC 0.56		Vert(LL)		-0.27 16-18		>999		360		MT20		197/144		
TCDL	10.0	Lumber DOL 1.15			BC 0.79		Vert(CT)		-0.46 16-18		>944		240		MT18H		197/144		
BCLL	0.0 *	Rep Stress Incr NO			WB 1.00		Horz(CT)		0.15 12		n/a		n/a						
BCDL	10.0	Code IRC2018/TPI2014			Matrix-S		Wind(LL)		0.16 18		>999		240		Weight: 164 lb		FT = 10%		

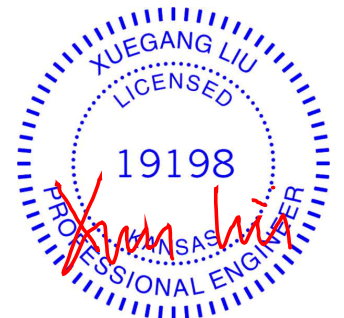
LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 7-10: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-14 max.): 3-4, 10-11.
BOT CHORD 2x4 SPF 2100F 1.8E *Except* 8-15: 2x3 SPF No.2, 15-17: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 9-6-15 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-21: 2x4 SPF No.2	WEBS 1 Row at midpt 6-16, 10-12

REACTIONS.	(size) 12=Mechanical, 21=0-3-8 Max Horz 21=185(LC 5) Max Uplift 12=-201(LC 9), 21=-245(LC 8) Max Grav 12=1702(LC 2), 21=1769(LC 2)
------------	---

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1888/208, 3-4=-1724/196, 4-5=-3534/428, 5-6=-2728/348, 6-7=-2000/290, 7-8=-2727/431, 8-9=-2741/311, 9-10=-3533/370, 2-21=-1717/209
BOT CHORD 19-20=-679/4059, 18-19=-483/3140, 16-18=-297/2375, 8-14=-386/212, 13-14=-323/3143, 12-13=-454/3664
WEBS 3-20=-103/767, 4-20=-2736/401, 4-19=-952/204, 5-19=0/469, 5-18=-871/211, 6-18=-29/661, 6-16=-952/263, 7-16=-99/596, 14-16=-111/1692, 7-14=-295/1404, 9-14=-868/177, 9-13=0/531, 10-13=-623/150, 10-12=-3860/475, 2-20=-164/1690

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=201, 21=245.
 - 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) 115 lb down and 36 lb up at 1-3-0 on top chord, and 6 lb down and 7 lb up at 1-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

On the CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



May 6,2020

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN
400399	D7	Roof Special Girder	1	1	I41208999
Job Reference (optional)					

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-7=-70, 7-10=-70, 10-11=-70, 15-21=-20, 12-14=-20

Concentrated Loads (lb)

Vert: 20=2(B)

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209000
400399	E1	Roof Special	1	1		

Wheeler Lumber, Waverly, KS 66871

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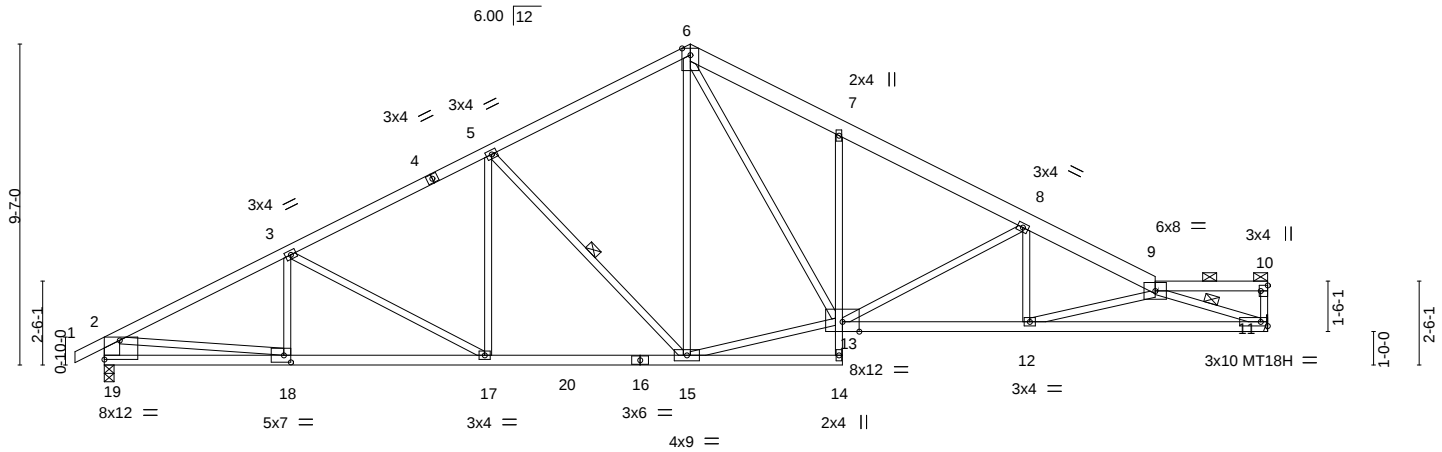
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Job Reference (optional)

-0-10-8 5-5-9 11-5-9 17-6-0 22-0-8 27-6-6 31-4-9 34-8-14
0-10-8 5-5-9 6-0-0 6-0-7 4-6-8 5-5-14 3-10-3 3-4-5

6x8 ||

Scale = 1:68.8



5-5-9 11-5-9 17-6-0 22-0-8 27-6-6 34-8-14
5-5-9 6-0-0 6-0-7 4-6-8 5-5-14 7-2-8

Plate Offsets (X,Y)-- [10:Edge,0-2-8], [18:0-2-8,0-2-8], [19:Edge,0-6-13], [19:0-2-12,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.21 12-13	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.38 12-13	>999	240	MT18H	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.12 11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.10 12-13	>999	240		
								Weight: 157 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
6-9: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
7-14: 2x3 SPF No.2, 11-13: 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
2-19: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-15, 9-11

REACTIONS.

(size) 11=Mechanical, 19=0-3-8
Max Horz 19=146(LC 5)
Max Uplift 11=-20(LC 9), 19=-30(LC 8)
Max Grav 11=1603(LC 2), 19=1678(LC 2)

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

TOP CHORD 2-3=-2587/40, 3-5=-2319/59, 5-6=-1793/85, 6-7=-2490/131, 7-8=-2508/50,
8-9=-3298/25, 2-19=-1580/58
BOT CHORD 18-19=-134/477, 17-18=-87/2288, 15-17=-22/2035, 7-13=-378/126, 12-13=0/2930,
11-12=-77/3675
WEBS 3-17=-313/74, 5-17=0/394, 5-15=-720/107, 6-15=-21/460, 13-15=0/1515,
6-13=-100/1349, 8-13=-870/63, 8-12=0/485, 9-12=-813/82, 9-11=-3810/90, 2-18=0/1857

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.
- 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, 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) 11, 19.
- 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.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209001
400399	E2	Roof Special	1	1		

Wheeler Lumber, Waverly, KS 66871

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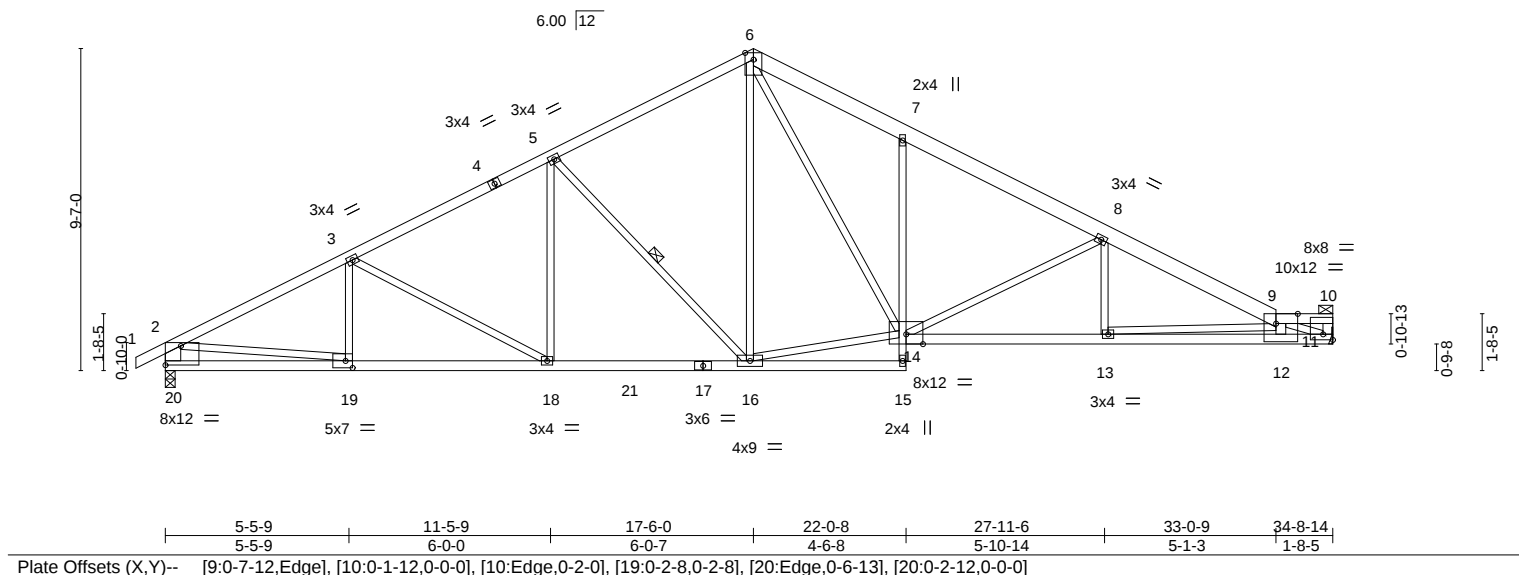
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Job Reference (optional)

0-10-8 5-5-9 11-5-9 17-6-0 22-0-8 27-11-6 33-0-9 34-8-14
0-10-8 5-5-9 6-0-0 6-0-7 4-6-8 5-10-14 5-1-3 1-8-5

6x8 ||

Scale = 1:68.6



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 0.48	Vert(LL) -0.18 13-14 >999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.71	Vert(CT) -0.33 13-14 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.11 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.11 14 >999 240	Weight: 158 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
6-9: 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
7-15: 2x3 SPF No.2, 11-14: 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
10-11,9-12: 2x4 SPF No.2, 2-20: 2x6 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 (6-0-0 max.): 9-10.
BOT CHORD Rigid ceiling directly applied or 9-8-11 oc bracing.
WEBS 1 Row at midpt 5-16

REACTIONS.

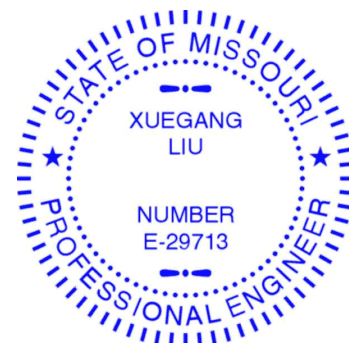
(size) 11=Mechanical, 20=0-3-8
Max Horz 20=167(LC 8)
Max Uplift 11=-192(LC 9), 20=-218(LC 8)
Max Grav 11=1601(LC 2), 20=1676(LC 2)

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

TOP CHORD 2-3=-2584/308, 3-5=-2315/298, 5-6=-1789/283, 6-7=-2402/418, 7-8=-2429/298,
8-9=-3177/363, 9-10=-426/47, 2-20=-1578/244
BOT CHORD 19-20=-245/475, 18-19=-367/2243, 16-18=-244/2008, 7-14=-382/214, 13-14=-279/2822,
12-13=-382/3290, 11-12=-362/3250
WEBS 3-18=-313/141, 5-18=0/394, 5-16=-715/231, 6-16=-88/516, 14-16=-69/1465,
6-14=-280/1216, 8-14=-819/211, 8-13=0/340, 9-13=-471/104, 9-11=-3038/329,
2-19=-123/1854

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=192, 20=218.
- 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.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209003
400399	E4	GABLE	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

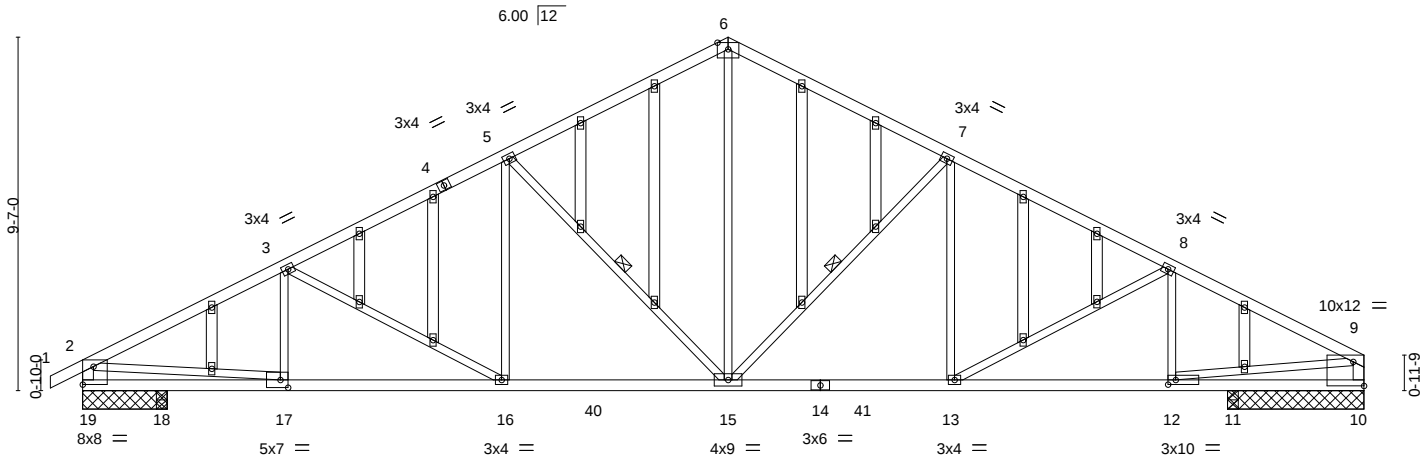
8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:50 2020 Page 1

ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-v4F2BX4e8gRFWLCBaVWerAovS6Sp9jvkTqfOV5zJVDB

0-10-8	5-5-9	11-5-9	17-6-0	23-6-7	29-6-6	34-8-14
0-10-8	5-5-9	6-0-0	6-0-7	6-0-7	5-11-15	5-2-8

5x7 =

Scale = 1:62.5



2-0-0	5-5-9	11-5-9	17-6-0	23-6-7	29-6-6	31-4-0	34-8-14
2-0-0	3-5-9	6-0-0	6-0-7	6-0-7	5-11-15	1-9-10	3-4-14

Plate Offsets (X,Y)-- [9:Edge,0-7-13], [10:0-1-12,0-0-0], [12:0-2-8,0-1-8], [17:0-2-8,0-2-8], [19:Edge,0-5-13], [19:0-1-12,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.16 12-13	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.30 12-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.08 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.10 12-13	>999	240	Weight: 179 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-19,9-10: 2x4 SPF No.2
 OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-11-5 oc bracing.
 WEBS 1 Row at midpt 5-15, 7-15

REACTIONS.

All bearings 0-3-8 except (jt=length) 19=2-3-8, 10=3-8-6.
 (lb) - Max Horz 19=151(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 18, 11 except 19=211(LC 8), 10=167(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 18 except 19=1415(LC 2), 10=1221(LC 2), 11=436(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2404/307, 3-5=-2217/298, 5-6=-1695/282, 6-7=-1695/284, 7-8=-2134/288, 8-9=-2034/271, 2-19=-1474/241, 9-10=-1264/200
 BOT CHORD 18-19=-225/322, 17-18=-225/322, 16-17=-351/2086, 15-16=-226/1919, 13-15=-91/1844, 12-13=-194/1765
 WEBS 3-16=-260/142, 5-16=0/376, 5-15=-712/237, 6-15=-121/1124, 7-15=-618/226, 7-13=0/281, 8-12=-439/116, 2-17=-127/1851, 9-12=-157/1725

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 studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 11 except (jt=lb) 19=211, 10=167.
- 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.



May 6,2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209004
400399	G1	Common	6	1		

Wheeler Lumber, Waverly, KS 66871

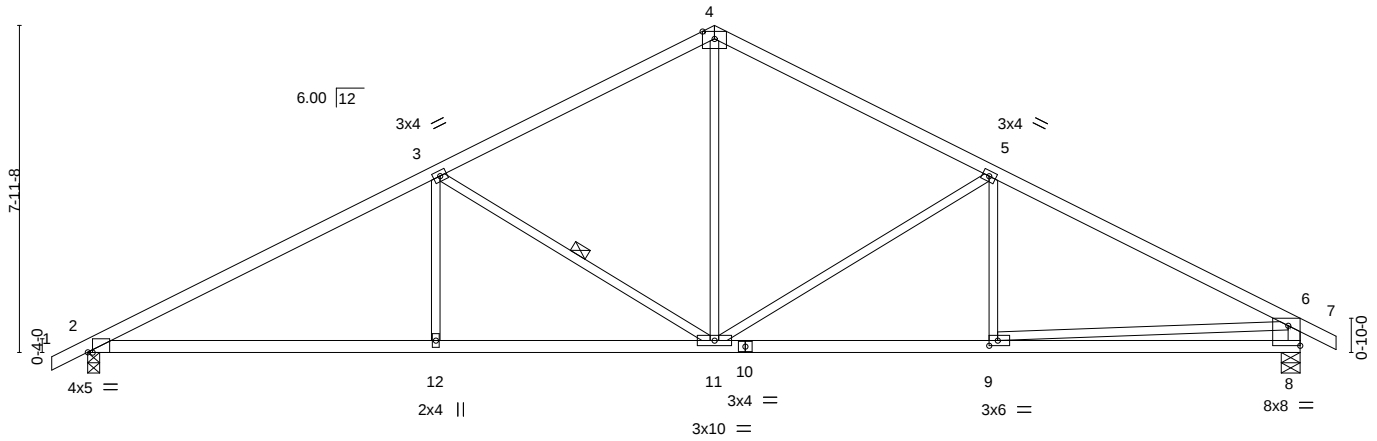
8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:51 2020 Page 1

ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-NGpQPt5Gv_Z68VnO8D1tOOL1NWmpu3VthTOx1XzJVDA

0-10-8 8-5-10 15-3-0 22-0-7 29-6-0 30-4-8
0-10-8 8-5-10 6-9-6 6-9-7 7-5-9 0-10-8

5x7 =

Scale = 1:56.1



	8-5-10 8-5-10	15-3-0 6-9-6	22-0-7 6-9-7	29-6-0 7-5-9
Plate Offsets (X,Y)--	[2:0-1-7,Edge], [8:Edge,0-5-13], [8:0-1-12,0-0-0], [9:0-2-8,0-1-8]			

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	-0.15	2-12	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.35	2-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.08	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.11	2-12	>999	240	Weight: 105 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E *Except*
4-7: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
6-8: 2x4 SPF 2100F 1.8E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-11

REACTIONS.

(size) 2=0-3-8, 8=0-5-8
Max Horz 2=142(LC 8)
Max Uplift 2=-192(LC 8), 8=-183(LC 9)
Max Grav 2=1386(LC 1), 8=1386(LC 1)

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

TOP CHORD 2-3=-2318/277, 3-4=-1550/236, 4-5=-1541/240, 5-6=-2099/249, 6-8=-1312/222
BOT CHORD 2-12=-274/1961, 11-12=-274/1961, 9-11=-123/1774, 8-9=-169/605
WEBS 3-12=0/340, 3-11=-830/262, 4-11=-80/869, 5-11=-630/224, 6-9=-26/1172

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=192, 8=183.
- 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.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209005
400399	G2	Common Supported Gable	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:52 2020 Page 1

ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-sSMocD5uglizmfMaiwY6xbtLiwJ5djc1w78VZzzJVD9

0-10-8 15-3-0 29-6-0 30-4-8
0-10-8 15-3-0 14-3-0 0-10-8

Scale = 1:52.9

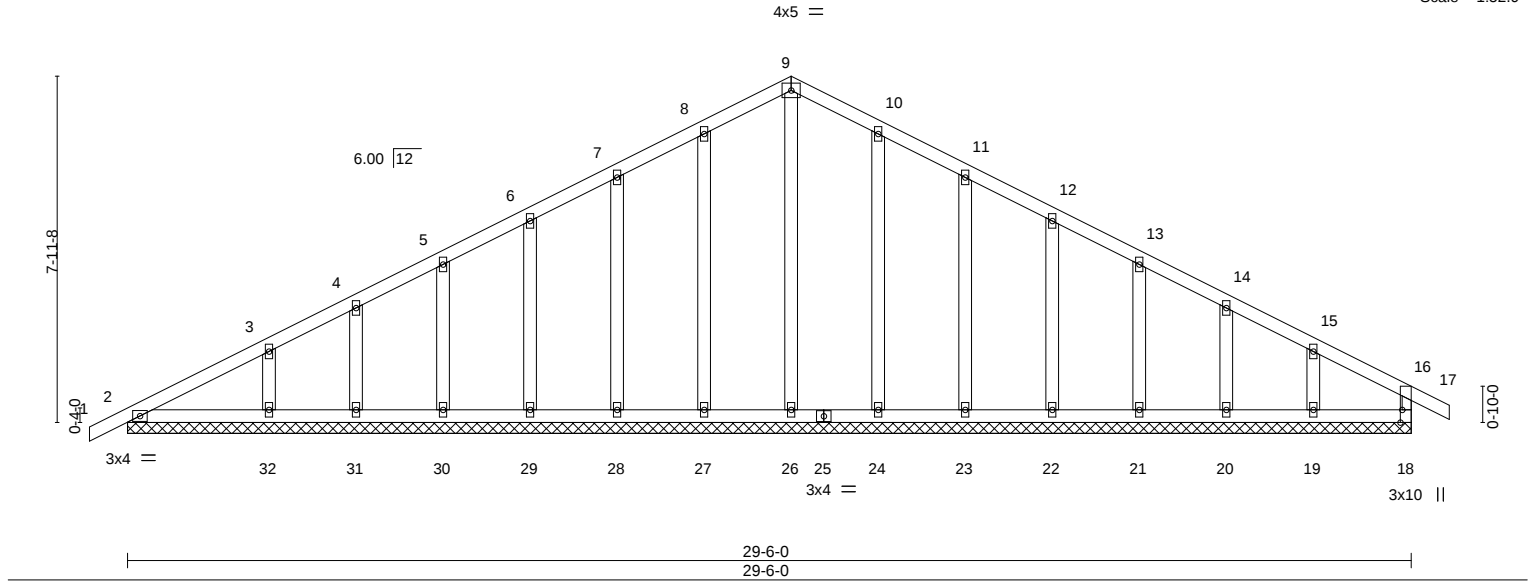


Plate Offsets (X,Y)--		[16:0-0-10,0-1-4], [18:0-3-8,Edge], [18:0-0-0,0-1-4]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.10	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(LL) -0.00 17 n/r 120
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Vert(CT) -0.00 17 n/r 120
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.00 18 n/a n/a
			PLATES MT20
			GRIP 197/144
			Weight: 136 lb FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 29-6-0.
(lb) - Max Horz 2=143(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 18, 2, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19
Max Grav All reactions 250 lb or less at joint(s) 18, 2, 26, 27, 28, 29, 30, 31, 24, 23, 22, 21, 20, 19 except 32=283(LC 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.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 2, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19.
- 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.



May 6,2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209006
400399	H1	Common Supported Gable	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:54 2020 Page 1
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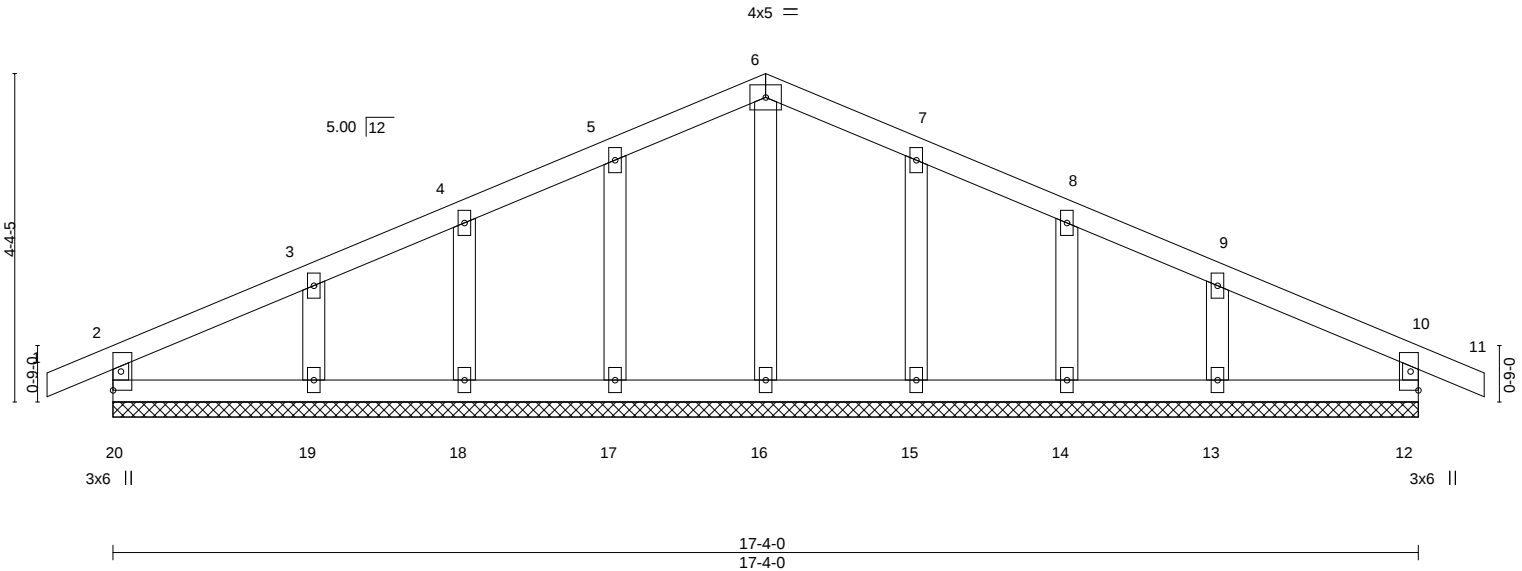
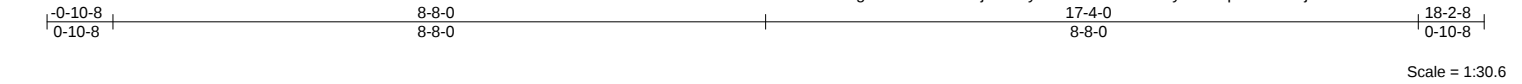


Plate Offsets (X,Y)-- [2:0-0-8,0-1-4], [10:0-0-8,0-1-4], [12:0-0-0,0-1-4], [20:0-0-0,0-1-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	10	n/r	120	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	10	n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 63 lb FT = 10%

LUMBER-

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

BRACING-

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

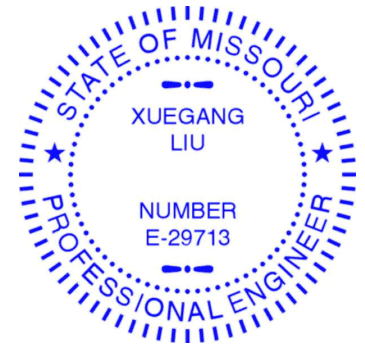
REACTIONS.

All bearings 17-4-0.
(lb) - Max Horz 20=53(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13
Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 18, 19, 15, 14, 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	
400399	H2	Common Supported Gable	1	1		I41209007
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:54 2020 Page 1
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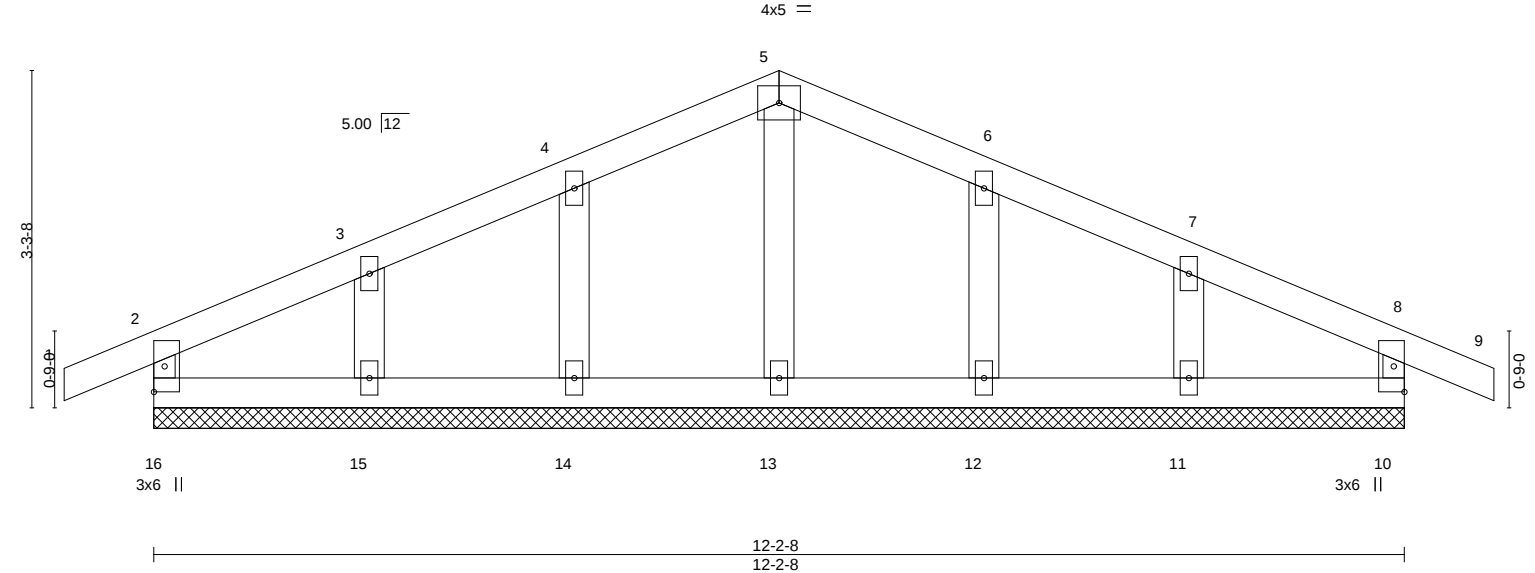
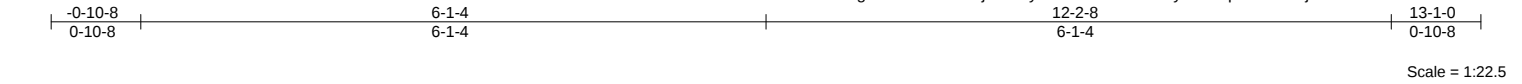


Plate Offsets (X,Y)-- [2:0-0-8,0-1-4], [8:0-0-8,0-1-4], [10:0-0-0,0-1-4], [16:0-0-0,0-1-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00 9 n/r	120	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00 9 n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00 10 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 42 lb FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 12-2-8.
(lb) - Max Horz 16=35(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209008
400399	H3	ROOF SPECIAL GIRDER	1	3	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:56 2020 Page 1
ID:VxWg?wa2R3MakUkj2l0tcxyD2rv-kDcJSa8OjWCPEGFxmd25R2qlXUEZR5crl6iikzJVD5

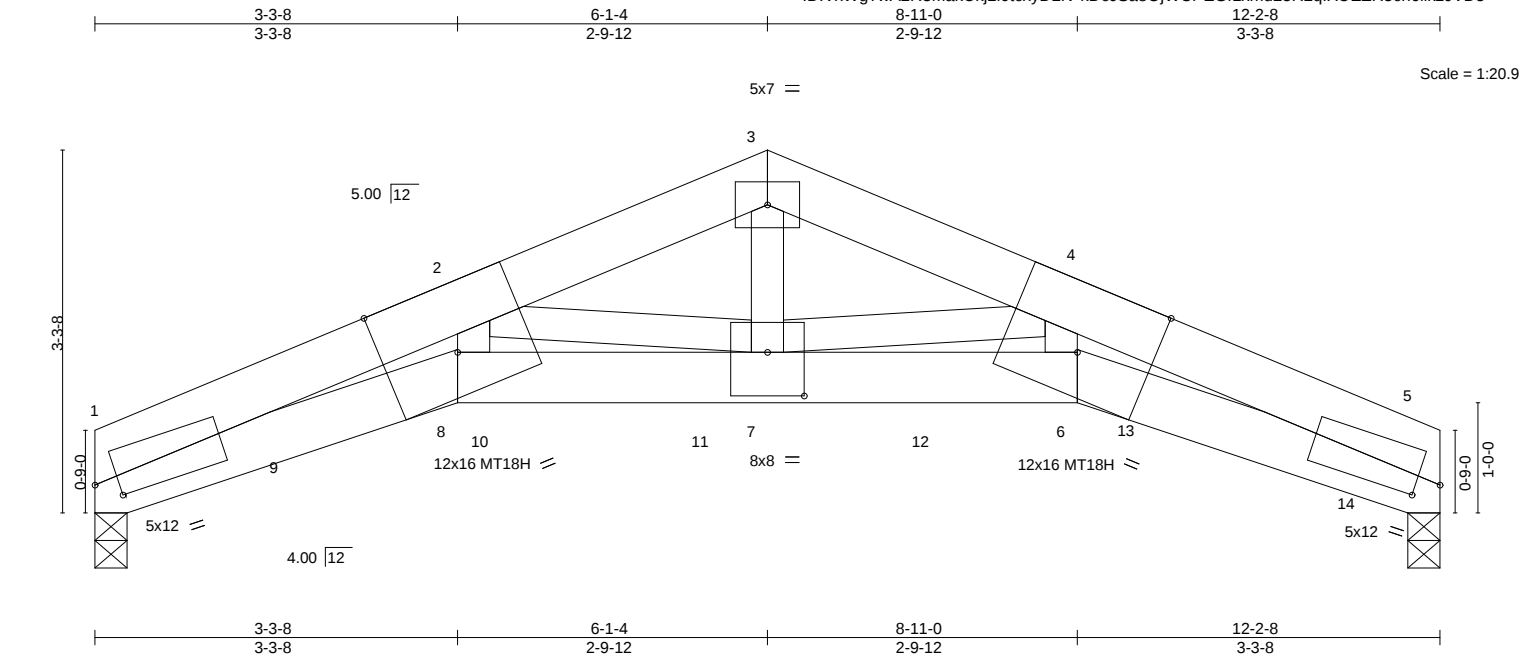


Plate Offsets (X,Y)-- [1:0-2-9,0-2-0], [5:0-2-9,0-2-0], [6:0-8-0,Edge], [7:0-4-0,0-4-12], [8:0-8-0,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.14	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.24	7-8	>584	240	MT18H	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.20	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.09	7-8	>999	240	Weight: 208 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=0-3-8, 5=0-3-8
Max Horz 1=50(LC 30)
Max Uplift 1=576(LC 8), 5=624(LC 9)
Max Grav 1=5023(LC 2), 5=5585(LC 1)

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

TOP CHORD 1-2=-17009/1908, 2-3=-10205/1034, 3-4=-10218/1050, 4-5=-16478/1614
BOT CHORD 1-8=-1770/15643, 7-8=-1515/13417, 6-7=-1256/13039, 5-6=-1479/15370
WEBS 3-7=-551/5750, 4-7=-3389/404, 4-6=-521/6031, 2-7=-3748/586, 2-8=-731/6437

NOTES-

- N/A
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=576, 5=624.
- 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) 1699 lb down and 216 lb up at 1-7-4, 1676 lb down and 217 lb up at 3-7-4, 1682 lb down and 221 lb up at 5-7-4, 1583 lb down and 40 lb up at 7-7-4, and 1581 lb down and 212 lb up at 9-7-4, and 1531 lb down and 204 lb up at 11-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED FOR LOADS REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.148"x3" NAILS PER HANGER MANUFACTURER SPECIFICATIONS.



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Continued on page 2

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN
400399	H3	ROOF SPECIAL GIRDER	1	3	I41209008

Wheeler Lumber, Waverly, KS 66871

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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, 3-5=-70, 1-8=-20, 6-8=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 9=-1619(B) 10=-1619(B) 11=-1621(B) 12=-1527(B) 13=-1525(B) 14=-1531(B)

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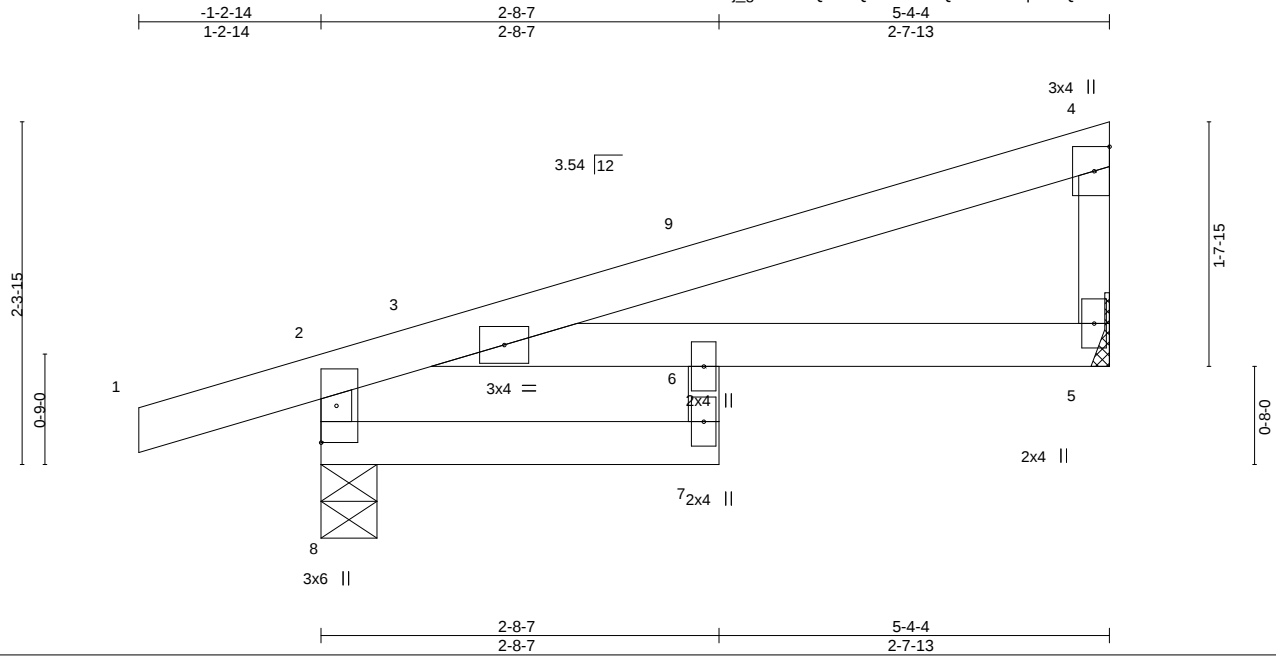
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209009
400399	J1	Diagonal Hip Girder	2	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:57 2020 Page 1

ID:Lek3CAAnj_gYbKvtCQHtmQzKvNM-CQAfw91UqKGsQEYVT8Hefa8dxzcl0Jm4PrFFBzJVD4



Scale = 1:15.6

Plate Offsets (X,Y)--		[2:0-0-6,0-1-4], [8:0-0-0,0-1-4]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	-0.02	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.05	6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.03	6	>999	240	Weight: 18 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=Mechanical, 8=0-4-9
Max Horz 8=82(LC 5)
Max Uplift 5=-48(LC 8), 8=-99(LC 4)
Max Grav 5=219(LC 1), 8=337(LC 1)

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

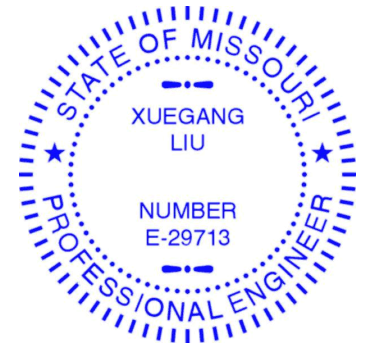
TOP CHORD 2-8=-319/121

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 32 lb up at 2-7-6, and 68 lb down and 32 lb up at 2-7-6 on top chord, and 2 lb down and 1 lb up at 2-7-3, and 2 lb down and 1 lb up at 2-7-3 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, 7-8=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 7=2(F=1, B=1)



May 6, 2020

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209010
400399	J2	Jack-Open	5	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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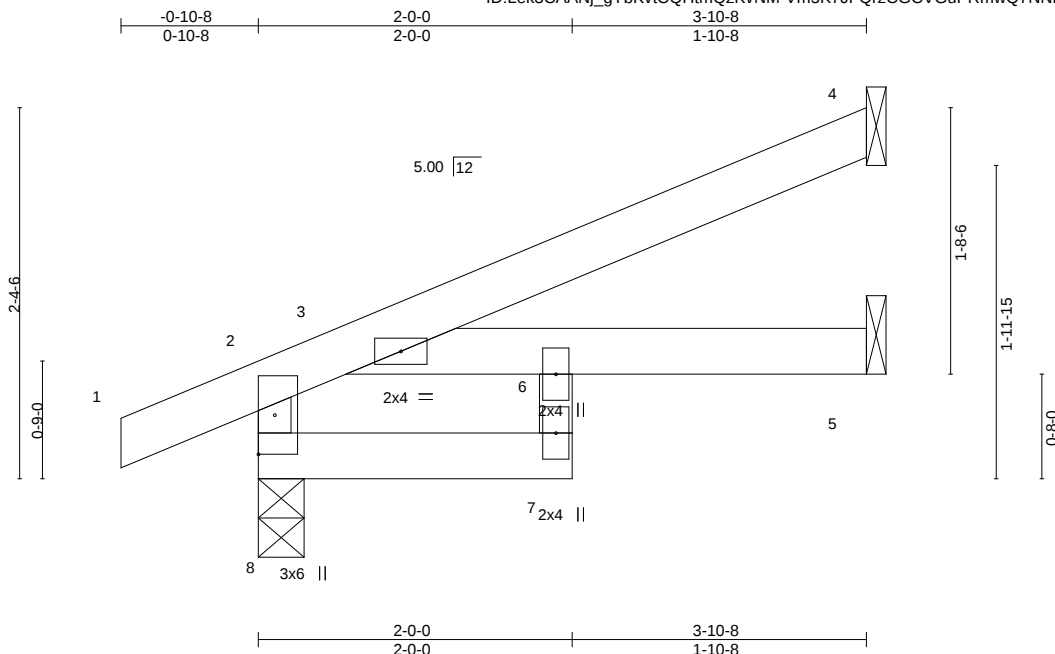


Plate Offsets (X,Y)-- [2:0-0-8,0-1-4], [8:0-0-0,0-1-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.02	6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.01	6	>999	240	Weight: 13 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 8=0-3-8, 5=Mechanical
Max Horz 8=70(LC 8)
Max Uplift 4=53(LC 8), 8=-23(LC 8)
Max Grav 4=112(LC 1), 8=263(LC 1), 5=80(LC 3)

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

TOP CHORD 2-8=-250/46

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



May 6, 2020

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Chesterfield, MO 63017

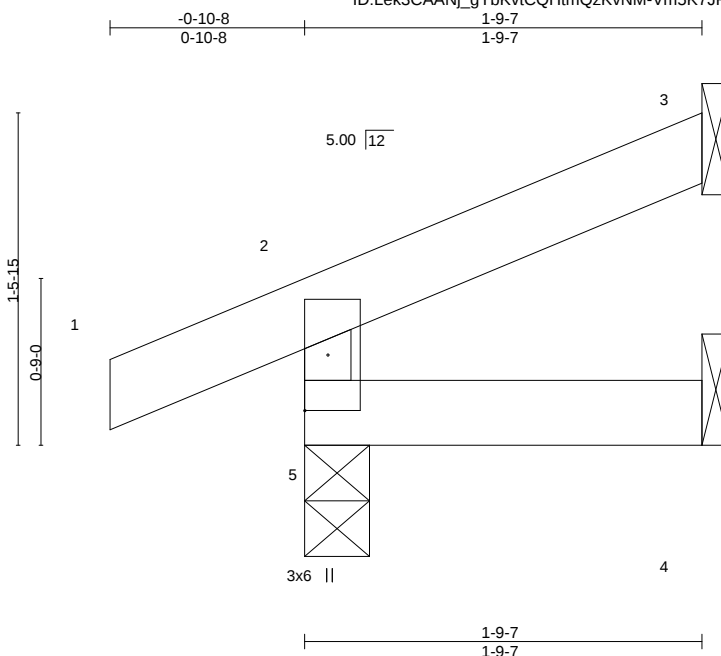
Job 400399	Truss J3	Truss Type Jack-Open	Qty 4	Ply 1	Lot 94 MN Job Reference (optional)
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I41209011

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-Vm5K7JFQrzCGCVGuPRmwQ7NOBIPXRBHoh?27ZHzJVCz



Scale = 1:10.4

Plate Offsets (X,Y)--		[2:0-0-8,0-1-4], [5:0-0-0,0-1-4]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

LUMBER-

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

BRACING-

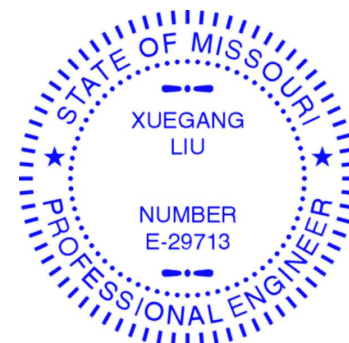
TOP CHORD Structural wood sheathing directly applied or 1-9-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 5=0-3-8, 4=Mechanical
 Max Horz 5=38(LC 5)
 Max Uplift 3=27(LC 8), 5=32(LC 4)
 Max Grav 3=41(LC 1), 5=164(LC 1), 4=31(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, 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.



May 6, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209012
400399	J4	JACK-CLOSED SUPPORTE	2	1	Job Reference (optional)	

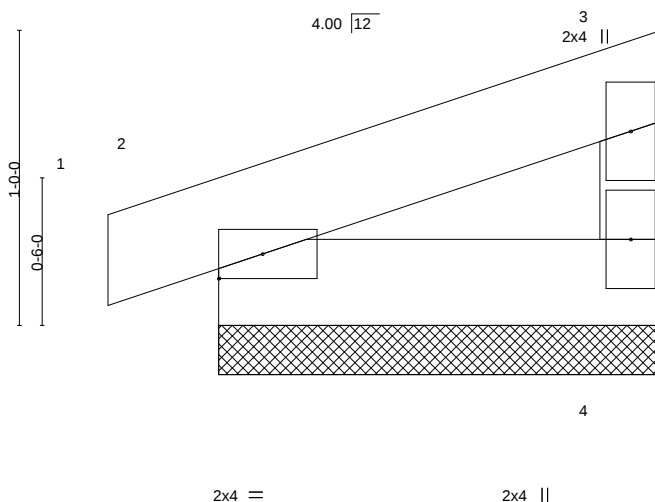
Wheeler Lumber, Waverly, KS 66871

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-0-4-8
0-4-8
1-6-0
1-6-0

Scale = 1:7.8



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 0.03	Vert(LL)	-0.00	1	n/r	120	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	1	n/r	120	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 4 lb	FT = 10%

LUMBER-

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

BRACING-

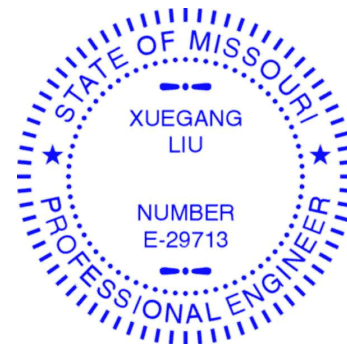
TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-6-0, 2=1-6-0
Max Horz 2=28(LC 5)
Max Uplift 4=-14(LC 8), 2=-27(LC 4)
Max Grav 4=59(LC 1), 2=93(LC 1)

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

NOTES-

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



May 6, 2020

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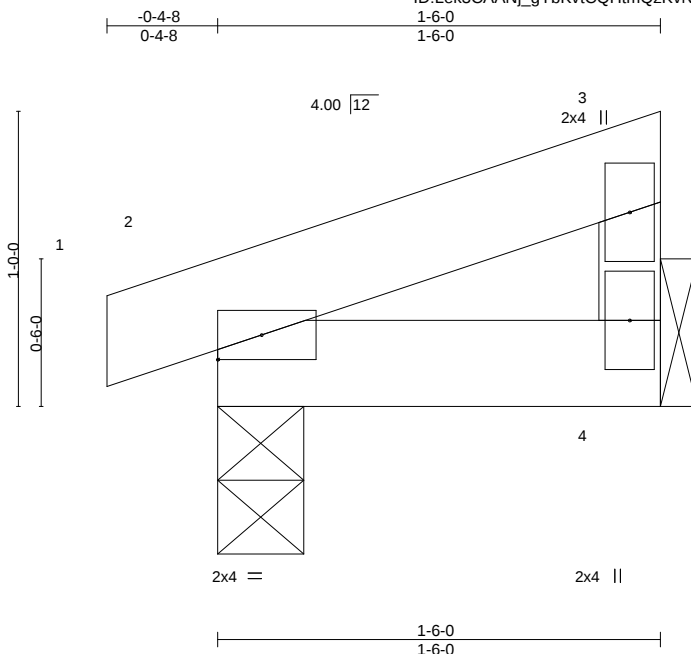
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209013
400399	J5	JACK-CLOSED	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:21:05 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-zyfjLfF2cHK7qfr4z9H9yLwaZ9IsAeXxvfnhWjzJVCy



Scale = 1:7.8

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 0.02	Vert(LL)	-0.00	2	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 4 lb	FT = 10%

LUMBER-

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

BRACING-

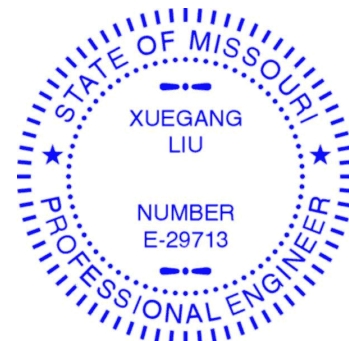
TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8
Max Horz 2=28(LC 5)
Max Uplift 4=-13(LC 8), 2=-28(LC 4)
Max Grav 4=57(LC 1), 2=94(LC 1)

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

NOTES-

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



May 6, 2020

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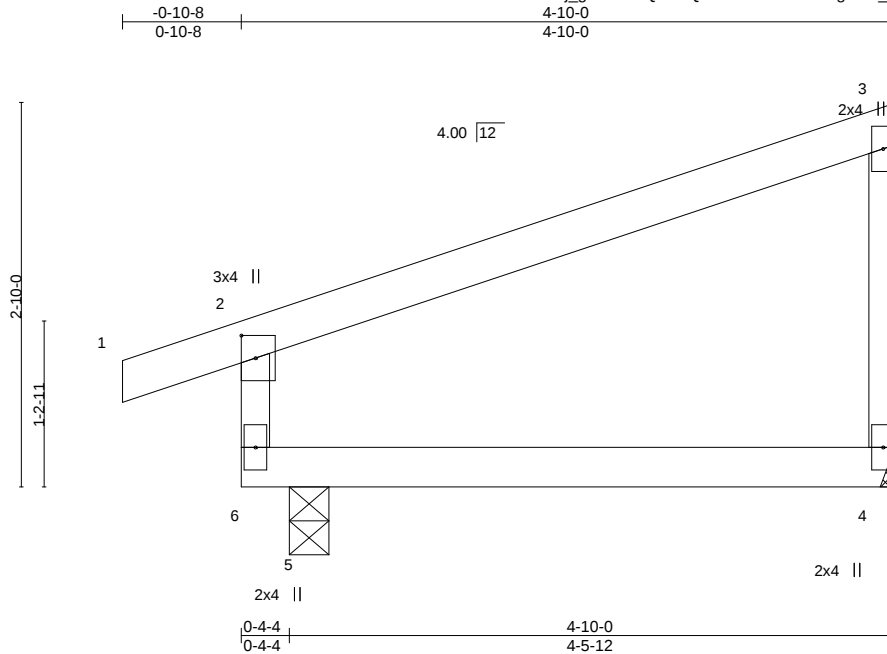
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209014
400399	J7	Jack-Closed	7	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:21:06 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-R9D5Y?GgNbS_RpQGWsoOVYShRZ4Nv5n58JXE29zJVCx



Scale = 1:17.0

Plate Offsets (X,Y)--		[2:0-2-0,0-1-4]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	-0.01	4-5	>999	240	Weight: 15 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 5=0-3-8
Max Horz 5=112(LC 5)
Max Uplift 4=-42(LC 8), 5=-89(LC 4)
Max Grav 4=174(LC 1), 5=310(LC 1)

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

NOTES-

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



May 6, 2020

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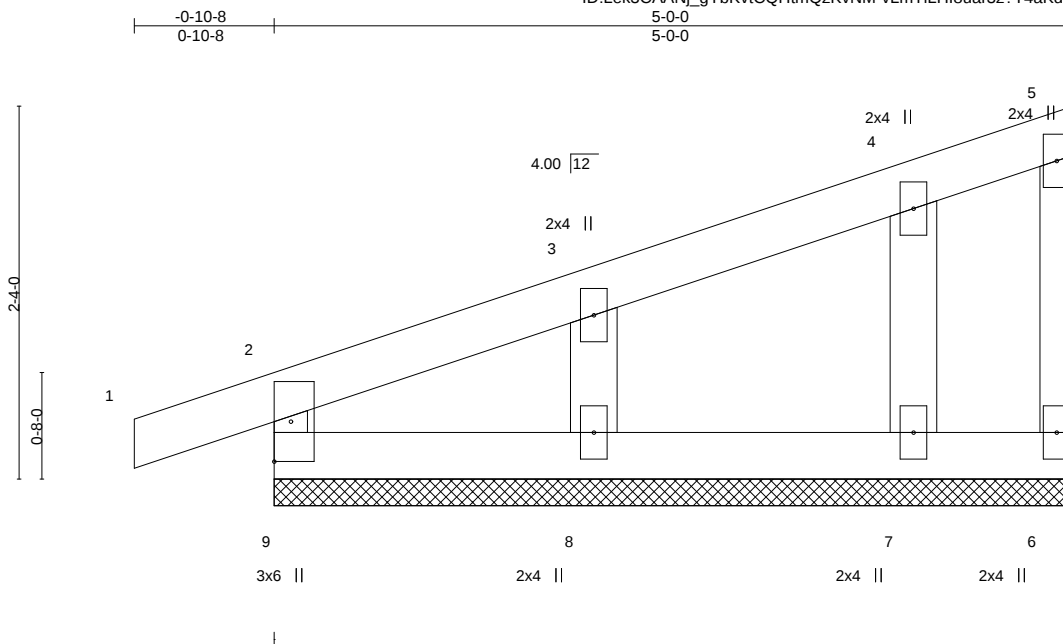
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209015
400399	J8	GABLE	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:21:07 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHmQzKvNM-vLmTILHl8uar3z?T4aKd2m?wRyR9eYmENzGnacZJVCw



Scale = 1:14.4

Plate Offsets (X,Y)-- [2:0-0-7,0-1-4], [9:0-0-0,0-1-4]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 17 lb	FT = 10%

LUMBER-

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

BRACING-

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

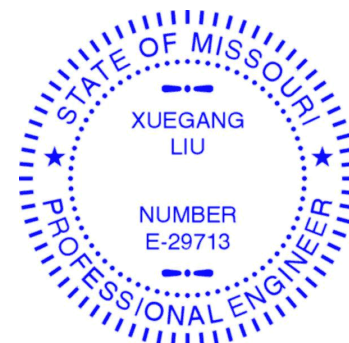
REACTIONS.

All bearings 5-0-0.
(lb) - Max Horz 9=94(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 6, 9, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 6, 9, 8, 7

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9, 8, 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 6, 2020

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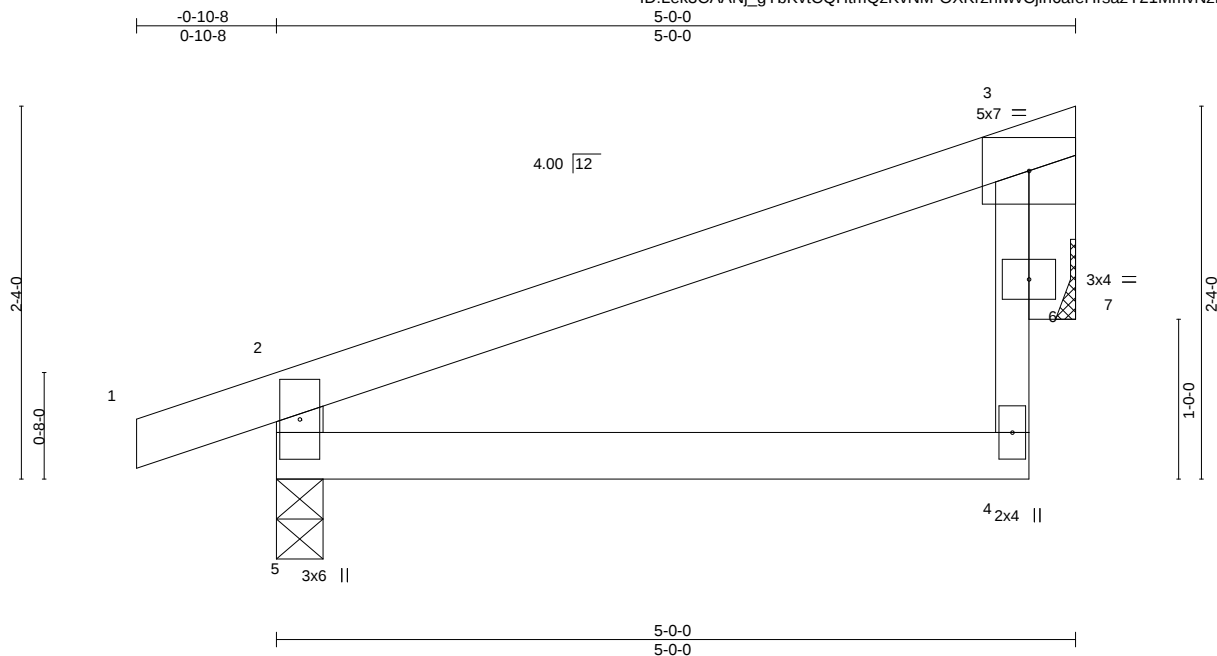
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209016
400399	J9	Jack-Closed	7	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-OXKrzhlwvCjih6afeHrsazY21MmvNzfNcd0L62zJVCv



Scale = 1:14.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	-0.01	4-5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.02	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.01	7	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	4-5	>999	240	
									Weight: 15 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
 OTHERS 2x4 SPF No.2

BRACING-

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

REACTIONS. (size) 5=0-3-8, 7=Mechanical
 Max Horz 5=72(LC 5)
 Max Uplift 5=-74(LC 4), 7=-46(LC 8)
 Max Grav 5=294(LC 1), 7=179(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-261/110

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, 7.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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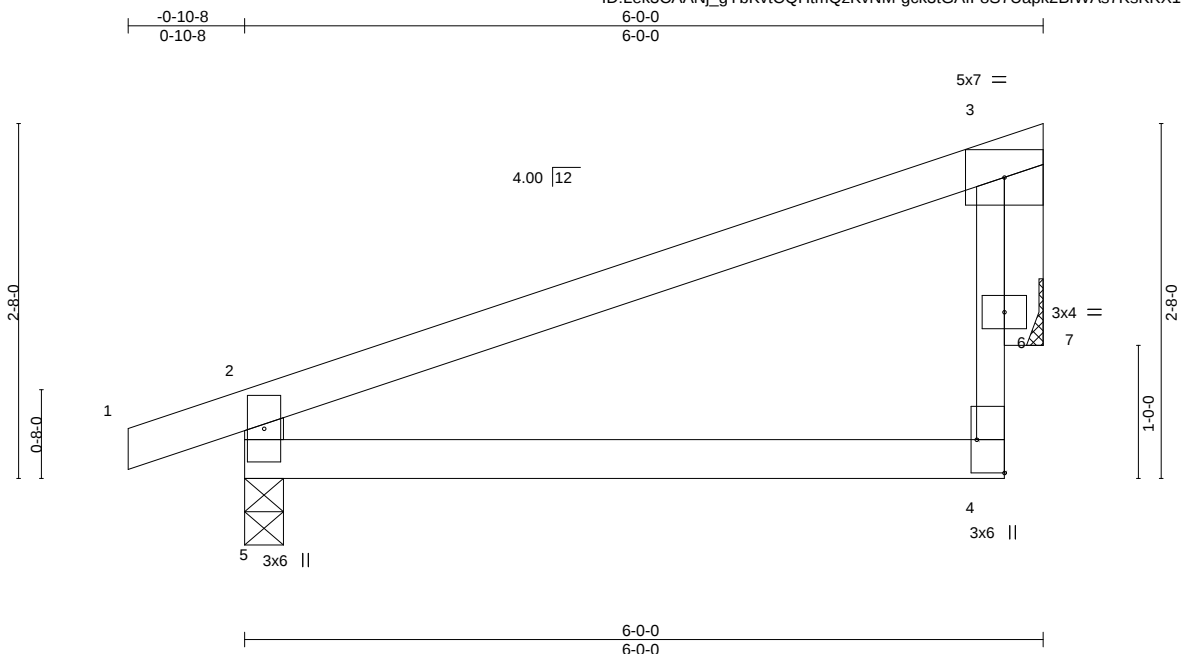
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209017
400399	J10	Jack-Closed	3	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:58 2020 Page 1

ID:Lek3CAANj_gYbKvCQHtmQzKvNM-gck3tGAfF8S7Uapk2BfWAs7KsKKX1PSvI3bpndzJVD3



Scale = 1:17.3

Plate Offsets (X,Y)--		[4: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 0.31		Vert(LL)	-0.02 4-5	>999	360	MT20	197/144						
TCDL 10.0		Lumber DOL	1.15	BC 0.19		Vert(CT)	-0.05 4-5	>999	240								
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.28		Horz(CT)	0.01 7	n/a	n/a								
BCDL 10.0		Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.01 4-5	>999	240	Weight: 18 lb	FT = 10%						

LUMBER-

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

(size) 5=0-3-8, 7=Mechanical
 Max Horz 5=81(LC 5)
 Max Uplift 5=-79(LC 4), 7=-57(LC 8)
 Max Grav 5=338(LC 1), 7=225(LC 1)

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

TOP CHORD 2-5=-300/123

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, 7.
- 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.



May 6, 2020

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209018
400399	J11	GABLE	1	1		

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:59 2020 Page 1

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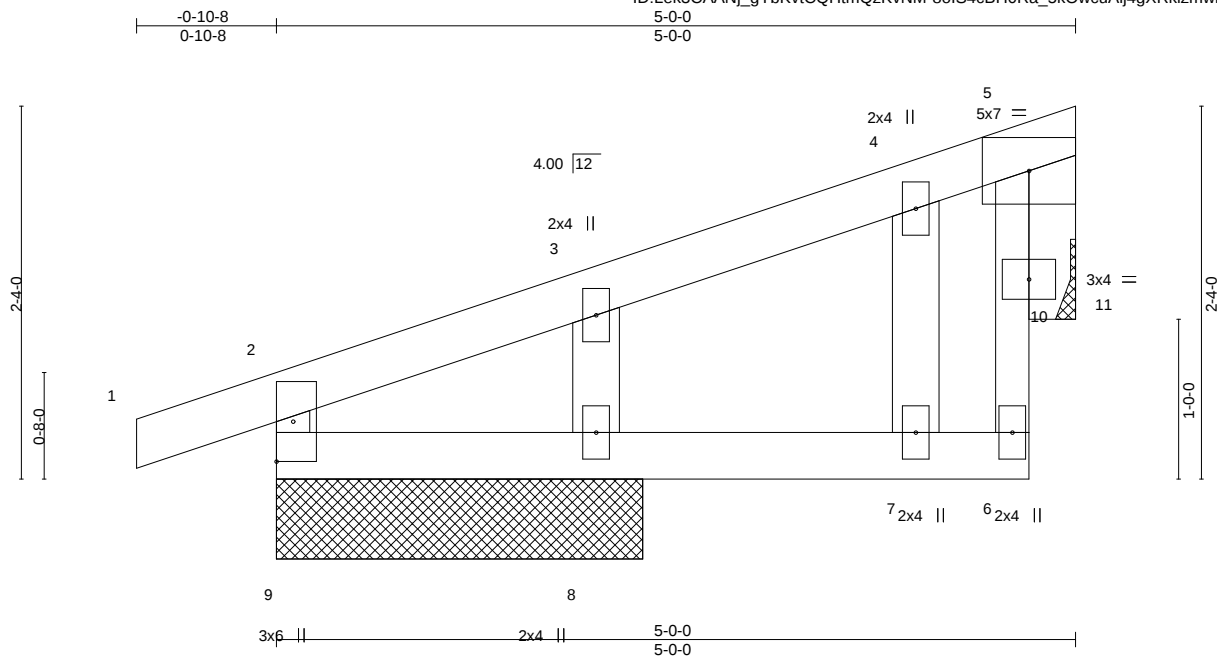


Plate Offsets (X,Y)-- [2:0-0-7,0-1-4], [9:0-0-0,0-1-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		L/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	7	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	7	>999	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	11	n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.00	7	>999	240	Weight: 18 lb FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 9=2-3-8, 8=2-3-8, 11=Mechanical
Max Horz 9=72(LC 5)
Max Uplift 9=-38(LC 4), 8=-62(LC 8), 11=-22(LC 4)
Max Grav 9=161(LC 1), 8=215(LC 1), 11=97(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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, 8, 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.



May 6, 2020

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

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



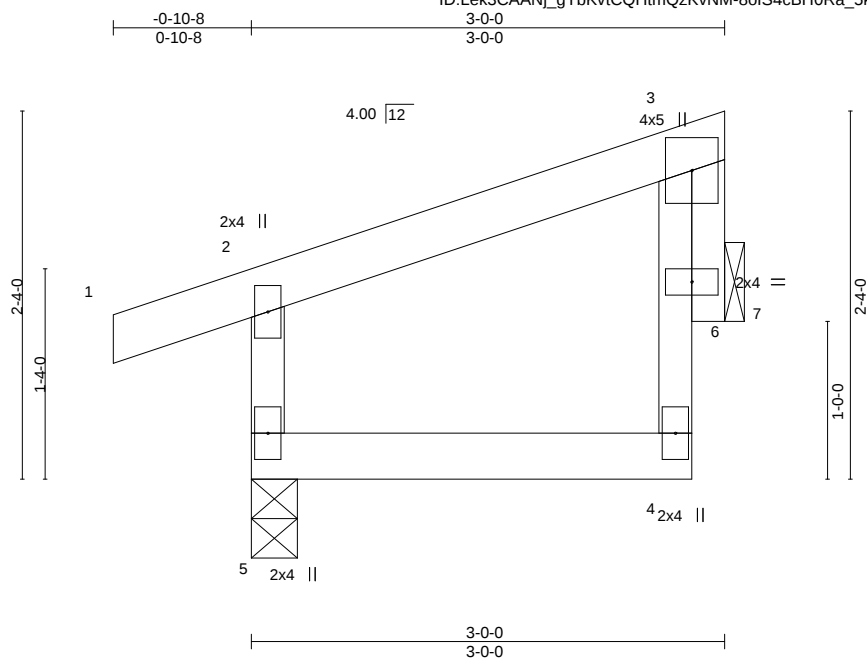
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209019
400399	J12	Jack-Closed	5	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:20:59 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-8oIS4cBH0Ra_5kOwcuAlj4gX9ki4mwsS3XjKMJ3zJVD2



Scale = 1:14.6

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 0.08	Vert(LL)	-0.00	4-5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	7	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	-0.00	5	>999	240	
								Weight: 11 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=0-3-8, 7=Mechanical
Max Horz 5=68(LC 5)
Max Uplift 5=-54(LC 4), 7=-33(LC 8)
Max Grav 5=207(LC 1), 7=94(LC 1)

FORCES.

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

NOTES-

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



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209020
400399	J13	GABLE	1	1	Job Reference (optional)	

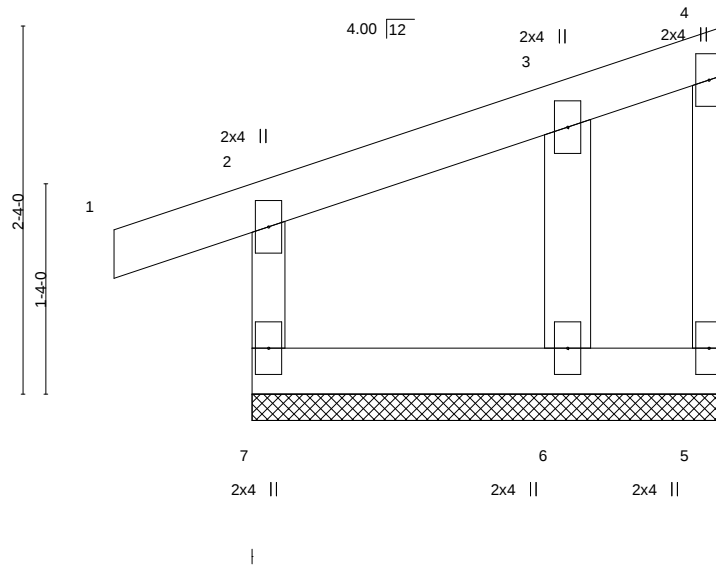
Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:21:00 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-d?rqHyBvnlirjuz6Aci_FHCi382MVN5CmN4wrWzJVD1

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

Scale = 1:14.6



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 0.07	Vert(LL)	-0.00 2	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00 2	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	-0.00 5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 12 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 7=3-0-0, 5=3-0-0, 6=3-0-0
Max Horz 7=89(LC 5)
Max Uplift 7=-54(LC 4), 5=-11(LC 5), 6=-38(LC 8)
Max Grav 7=162(LC 1), 5=20(LC 1), 6=138(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 6, 2020

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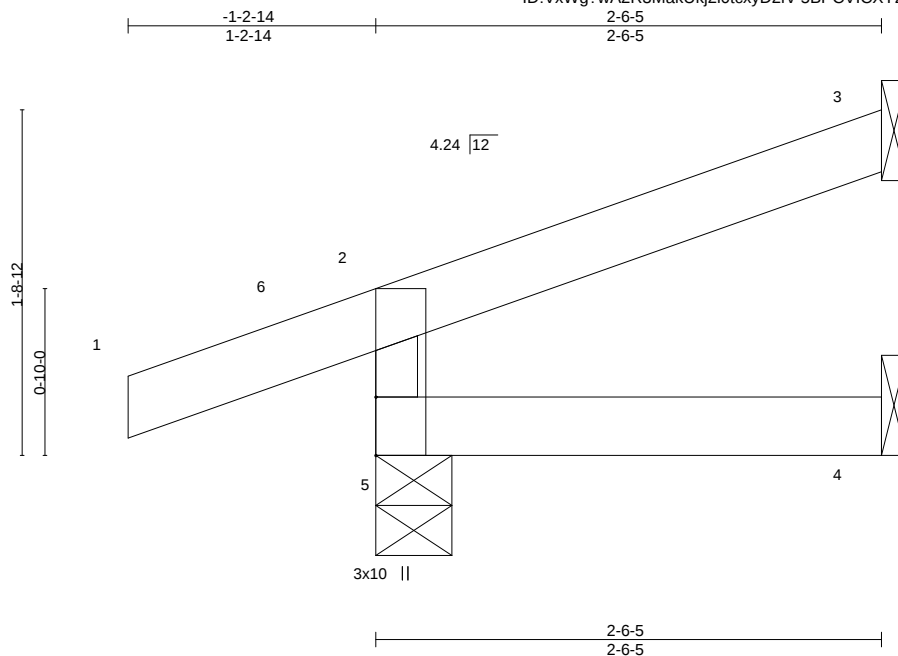


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209021
400399	J14	Diagonal Hip Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:21:01 2020 Page 1
ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-5BPCVICXY2qhL1YJkDDoVltfOfEqYL?1pTOyzJVD0



Scale = 1:11.5

Plate Offsets (X,Y)--		[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	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	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-4-9, 3=Mechanical, 4=Mechanical
Max Horz 5=60(LC 7)
Max Uplift 5=101(LC 6), 3=41(LC 12), 4=1(LC 19)
Max Grav 5=81(LC 1), 3=29(LC 1), 4=33(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=101.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 16 lb down and 6 lb up at -1-2-14, and 16 lb down and 6 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Concentrated Loads (lb)
Vert: 1=-24(F=-12, B=-12)
Trapezoidal Loads (plf)
Vert: 1=0(F=35, B=35)-to-6=-16(F=27, B=27), 6=0(F=35, B=35)-to-2=-7(F=31, B=31), 2=-7(F=31, B=31)-to-3=-50(F=10, B=10), 5=-2(F=9, B=9)-to-4=-14(F=3, B=3)



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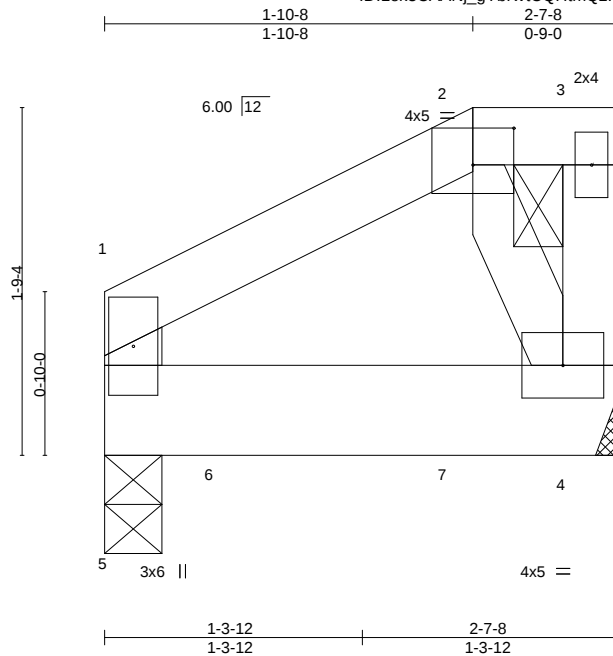
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209022
400399	J15	Jack-Closed Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:21:01 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-5BPCVICXY2qhL1YJkDDoVfmYLYEqNL?1pTOyzJVD0



Scale = 1:11.7

Plate Offsets (X,Y)--	[2:0-2-8,0-2-4]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.01 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	-0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.00 4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-7-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 4=Mechanical
Max Horz 5=56(LC 5)
Max Uplift 5=-113(LC 8), 4=-83(LC 5)
Max Grav 5=583(LC 1), 4=249(LC 1)

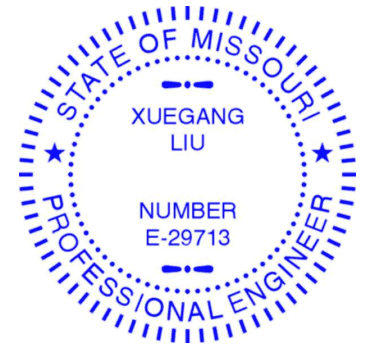
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 4 except (jt=lb) 5=113.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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) 33 lb down and 62 lb up at 1-10-8 on top chord, and 622 lb down and 126 lb up at 0-8-4, and 3 lb down and 3 lb up at 1-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-3=-70, 4-5=-20
Concentrated Loads (lb)
Vert: 6=-622(F) 7=1(B)



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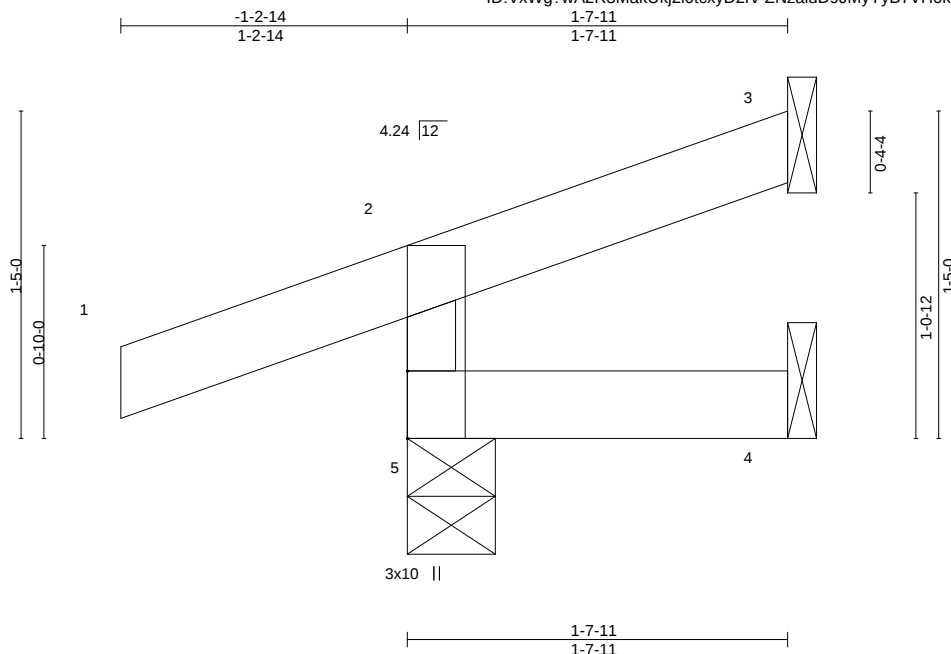
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209023
400399	J16	Diagonal Hip Girder	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:21:02 2020 Page 1

ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-ZNzaidD9JMyYyB7VH0kSLiI2BxkAzHoVdhZ0wOzJVD?



Scale = 1:10.0

Plate Offsets (X,Y)--		[2:0-0-7,0-1-4], [5:0-0-0,0-1-4]									
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC 0.10	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: 6 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-7-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-4-9, 3=Mechanical, 4=Mechanical
Max Horz 5=46(LC 7)
Max Uplift 5=-119(LC 6), 3=-17(LC 8)
Max Grav 5=55(LC 9), 3=26(LC 1), 4=23(LC 3)

FORCES.

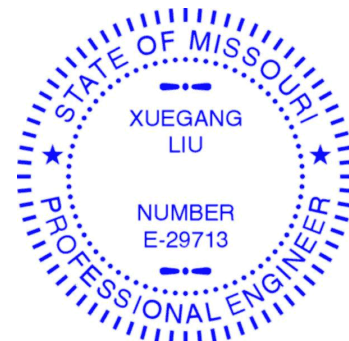
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=119.
- 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) 1 lb down and 0 lb up at -1-2-14, and 1 lb down and 0 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

- Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Concentrated Loads (lb)
Vert: 1=-1(F=-1, B=-1)
Trapezoidal Loads (plf)
Vert: 1=0(F=35, B=35)-to-2=-23(F=23, B=23), 2=-23(F=23, B=23)-to-3=-50(F=10, B=10), 5=-6(F=7, B=7)-to-4=-14(F=3, B=3)



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Chesterfield, MO 63017

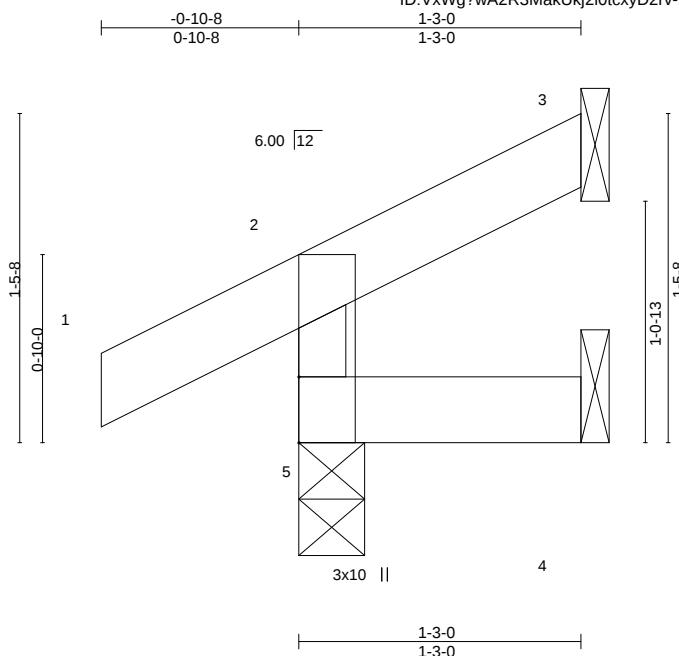
Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209024
400399	J17	Jack-Open	1	1		

Wheeler Lumber, Waverly, KS 66871

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ID:VxWg?wA2R3MakUkj2l0tcxyD2rv-1aXyWzEn4g4PaLihrkFhtwqDQL3Tik1eSLiaSrjJVD_

Job Reference (optional)



Scale = 1:10.2

Plate Offsets (X,Y)-- [2:0-0-10,0-1-4], [5:0-0-0,0-1-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00 5	>999	360
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00 5	>999	240
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00 3	n/a	n/a
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R		Wind(LL)	0.00 5	>999	240
								Weight: 5 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=36(LC 5)
Max Uplift 5=21(LC 8), 3=19(LC 8), 4=1(LC 8)
Max Grav 5=149(LC 1), 3=14(LC 1), 4=21(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.



May 6, 2020

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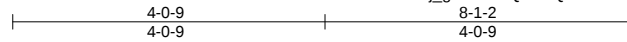
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN	I41209025
400399	LAY1	Lay-In Gable	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

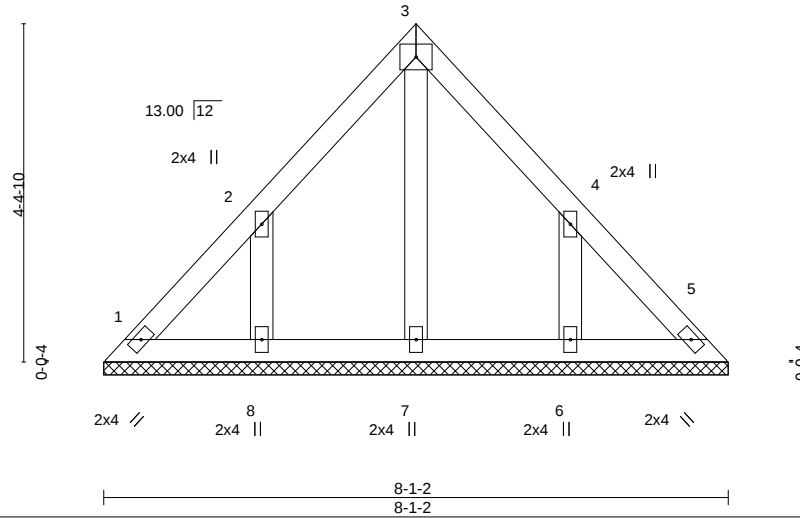
8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:21:09 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-sjuDA1YfWtZIG9rC?M57B4G1m7f6R2XqHlufUzJVCu



4x5 =

Scale = 1:29.9



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 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 30 lb	FT = 10%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 8-1-2.
(lb) - Max Horz 1=-108(LC 4)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-151(LC 8), 6=-151(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=151, 6=151.
- 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.



May 6, 2020

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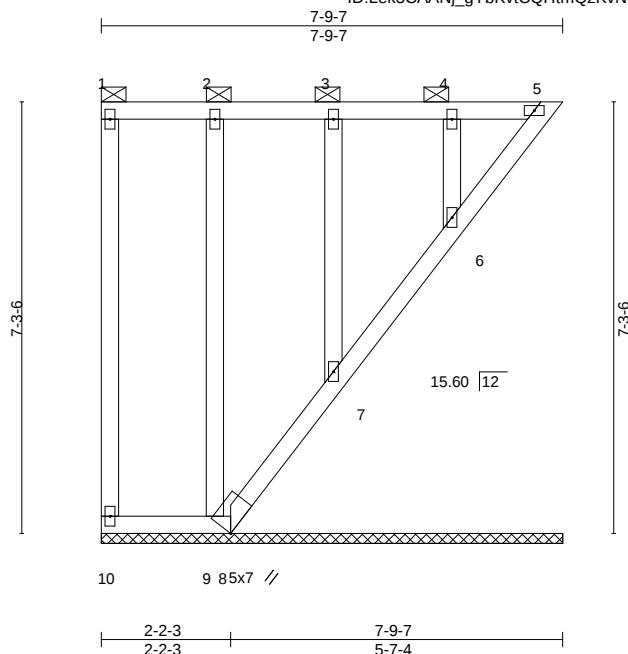
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN
400399	LAY2	GABLE	1	1	I41209026
Job Reference (optional)					

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:21:09 2020 Page 1

ID:Lek3CAANj_gYbKvCQHtmQzKvNM-sjuDA1YfWvZIG9rC?M57B4BTm7R6QbXqHlufUzJVCu



Scale = 1:38.9

Plate Offsets (X,Y)-- [8:0-1-6,0-1-1], [9:0-1-1,0-1-6]										
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	0.35	Vert(LL)	n/a - n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a - n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00 5 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 44 lb	FT = 10%

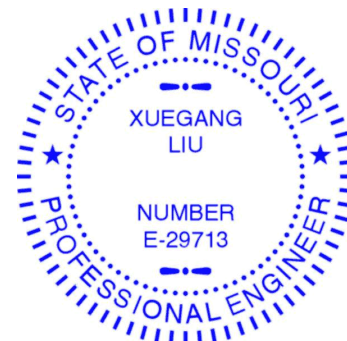
LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

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

REACTIONS. All bearings 7-9-7.
(lb) - Max Horz 10=-199(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 10, 9, 7, 6 except 5=-108(LC 5), 8=-144(LC 6)
Max Grav All reactions 250 lb or less at joint(s) 10, 5, 8, 9, 7, 6

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) Provide adequate drainage to prevent water ponding.
 - 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) 10, 9, 7, 6 except (jt=lb) 5=108, 8=144.
 - 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 7, 6.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 6, 2020

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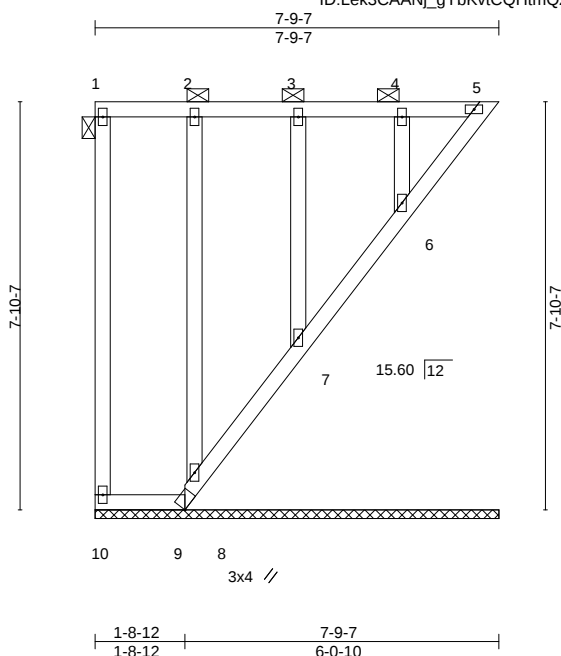
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN
400399	LAY3	GABLE	1	1	I41209027
Job Reference (optional)					

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:21:10 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-KwScONJAQpzQwQk1litKfOdL4ASZrslg3xVRBxzJVCt



Scale = 1:44.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	n/a	-	n/a	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 0.13	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 45 lb	FT = 10%

LUMBER-		BRACING-	
TOP CHORD 2x4 SPF No.2		TOP CHORD 2-0-0 oc purlins: 1-5, except end verticals.	
BOT CHORD 2x4 SPF No.2		BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS 2x4 SPF No.2			
OTHERS 2x4 SPF No.2			

REACTIONS. All bearings 7-9-7.
 (lb) - Max Horz 10=-215(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 8, 7, 6 except 5=-116(LC 5), 9=-201(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 10, 5, 9, 8, 7, 6

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) Provide adequate drainage to prevent water ponding.
 - 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) 10, 8, 7, 6 except (jt=lb) 5=116, 9=201.
 - 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 8, 7, 6.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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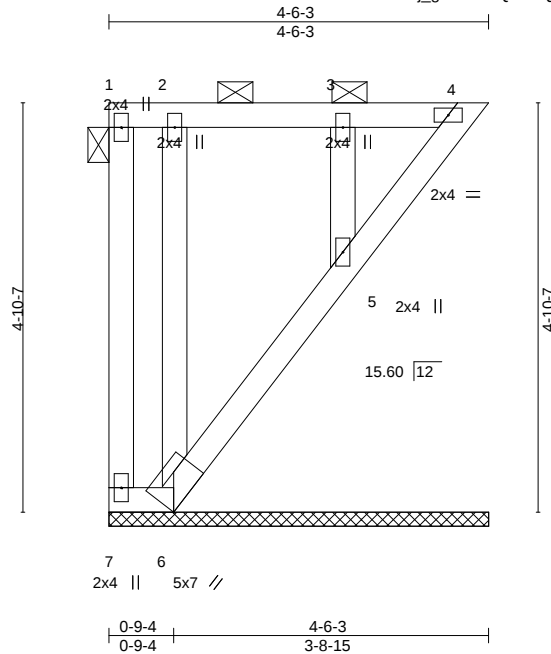
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN
400399	LAY4	GABLE	1	1	I41209028

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:21:11 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-o60_biKpB75HYaJEJPOZCcAaKaozaLSqlbE?jNzJVCs



Scale = 1:27.4

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 0.13	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 24 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 2-0-0 oc purlins: 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

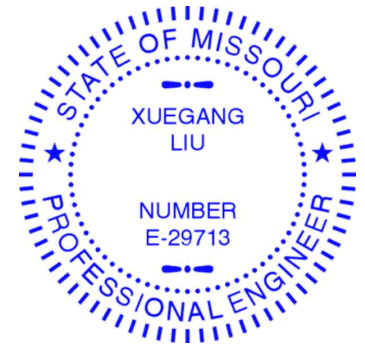
All bearings 4-6-3.
(lb) - Max Horz 7=-130(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 7, 4, 6, 5
Max Grav All reactions 250 lb or less at joint(s) 7, 4, 6, 5

FORCES.

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

NOTES-

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



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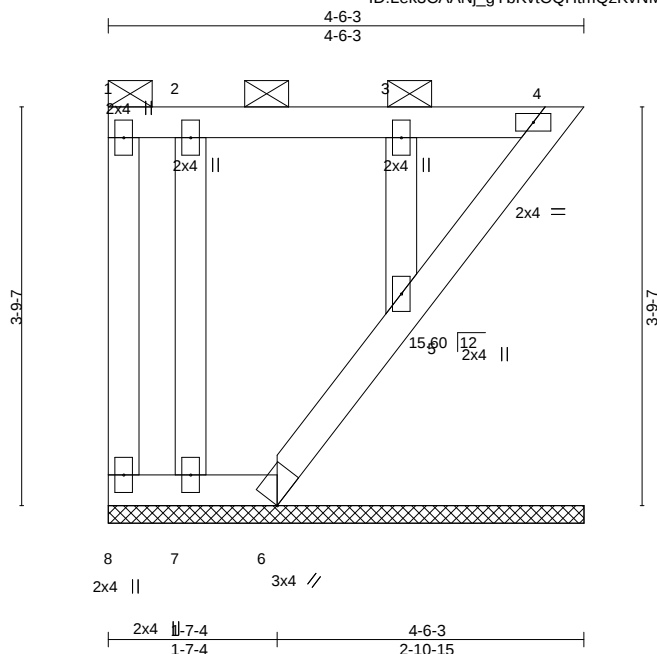
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 94 MN
400399	LAY5	GABLE	1	1	I41209029
Job Reference (optional)					

Wheeler Lumber, Waverly, KS 66871

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue May 5 16:21:12 2020 Page 1

ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-GlaMp2LRyRD89kuQt7volpim1z8PJotzWF_YFpzJVCr



Scale = 1:21.9

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 0.07	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 21 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 2-0-0 oc purlins: 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 4-5.

REACTIONS.

All bearings 4-6-3.
(lb) - Max Horz 8=99(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 4, 6, 7, 5
Max Grav All reactions 250 lb or less at joint(s) 8, 4, 6, 7, 5

FORCES.

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

NOTES-

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



May 6, 2020

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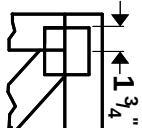
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



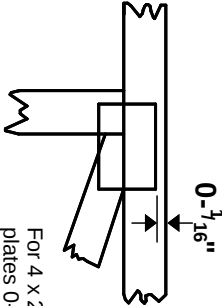
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

*** Plate location details available in MITek 20120 software or upon request.**

PLATE SIZE

4 X 4

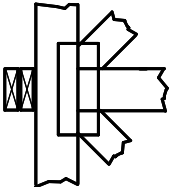
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



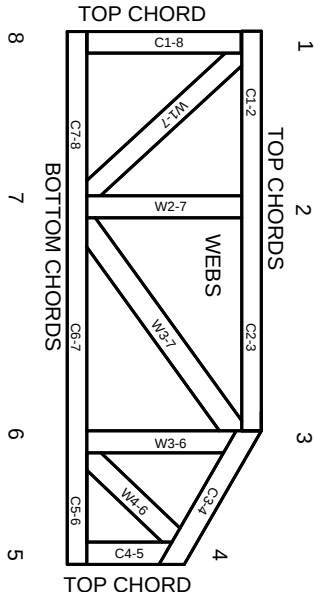
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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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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.