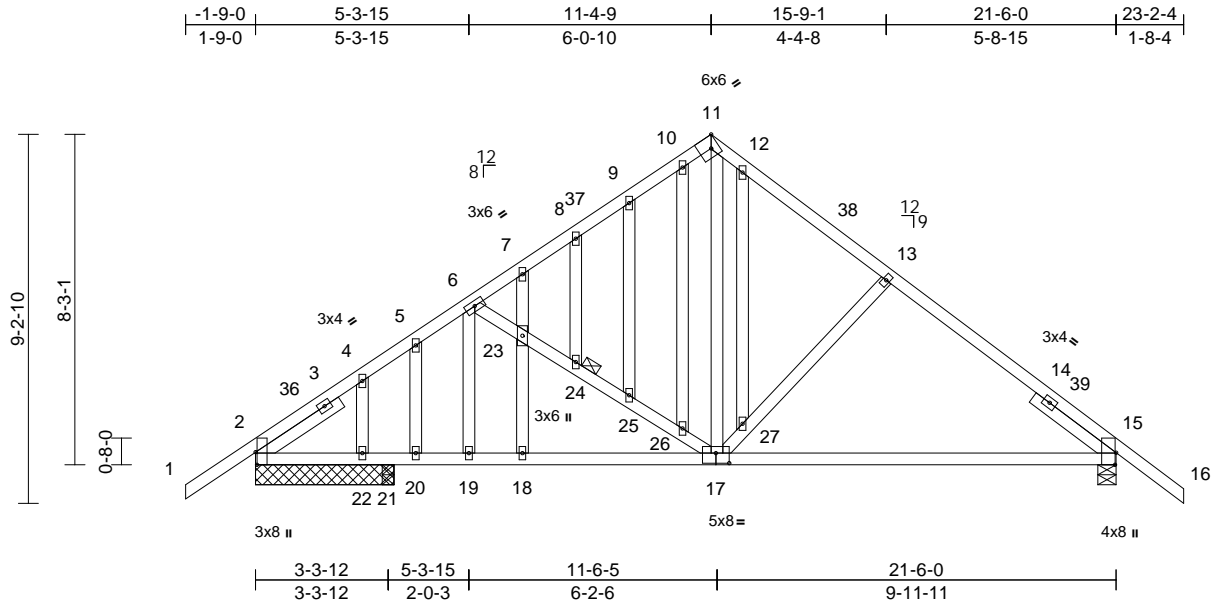


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
J21-006507	A01	Roof Special Structural Gable	2	1	I47256870

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Page: 1



Scale = 1:57.6

Plate Offsets (X, Y): [2:0-3-13,Edge], [11:0-2-5,Edge], [15:0-3-10,Edge], [17:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.17	17-34	>999	240	197/144
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.60	Vert(TL)	-0.43	17-34	>503	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.02	15	n/a	n/a	
BCLL	0.0	Code	IRC2012/TPI2007	Matrix-AS							
BCDL	10.0										
Weight: 128 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
SLIDER Left 2x4 SPF No.2 -- 2-6-0, Right 2x4 SPF No.2 -- 2-6-0

WEBS
6-19=-70/159, 6-23=-276/170,
23-24=-266/151, 24-25=-294/170,
25-26=-341/192, 17-26=-269/168,
11-17=-88/483, 17-27=-324/219,
13-27=-339/205, 4-22=-52/76, 5-20=-212/40,
7-23=-96/57, 18-23=-113/94, 8-24=-54/36,
9-25=-89/41, 10-26=-50/149, 12-27=-15/59

9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 24

REACTIONS (lb/size)
2=1068/3-5-8, 15=1168/0-5-8,
21=595/0-3-8, 22=-406/3-5-8,
28=1068/3-5-8
Max Horiz 2=-230 (LC 8), 28=-230 (LC 8)
Max Uplift 2=-107 (LC 10), 15=-142 (LC 11),
21=-18 (LC 10), 22=-406 (LC 1),
28=-107 (LC 10)
Max Grav 2=1068 (LC 1), 15=1168 (LC 1),
21=595 (LC 1), 22=-10 (LC 11),
28=1068 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/78, 2-4=-1156/126, 4-5=-1096/152,
5-6=-1160/181, 6-7=-895/125, 7-8=-883/150,
8-9=-853/173, 9-10=-843/203,
10-11=-704/181, 11-12=-784/203,
12-13=-990/191, 13-15=-1145/181,
15-16=0/81
BOT CHORD 2-22=-121/934, 21-22=-121/934,
20-21=-121/934, 19-20=-121/934,
18-19=-121/934, 15-18=-121/934

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 1-9-0 to 1-3-0, Interior (1) 1-3-0 to 8-4-9, Exterior (2) 8-4-9 to 14-4-9, Interior (1) 14-4-9 to 20-2-4, Exterior (2) 20-2-4 to 23-2-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 1'-4" oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 2, 142 lb uplift at joint 15, 406 lb uplift at joint 22, 18 lb uplift at joint 21 and 107 lb uplift at joint 2.



August 2, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the 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

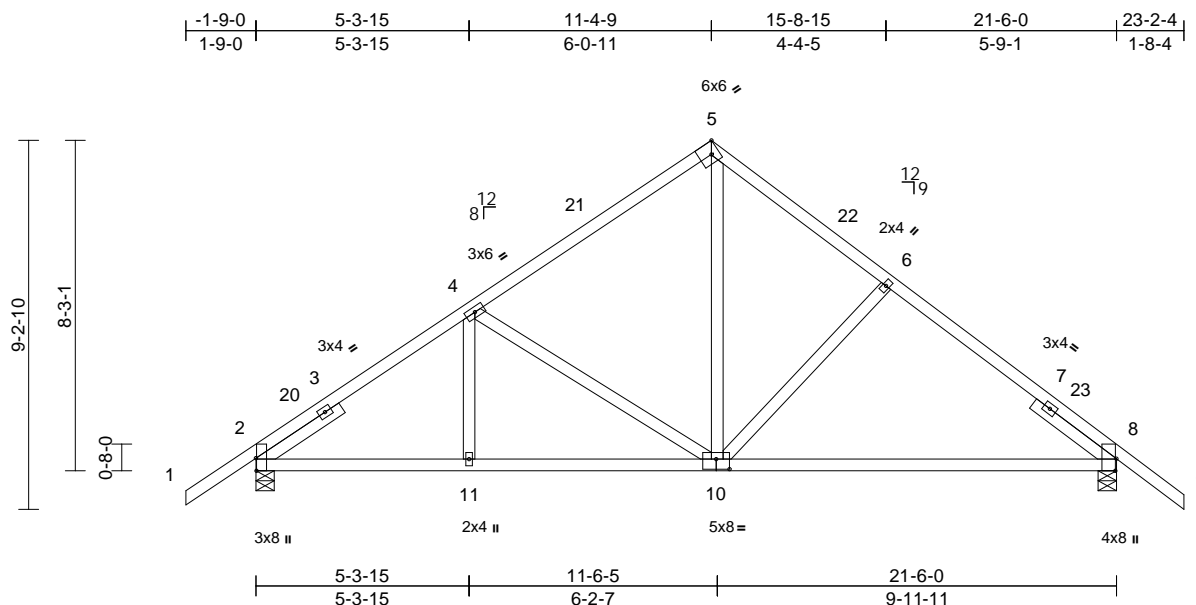
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

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Scale = 1:57.6

Plate Offsets (X, Y): [2:0-3-13,Edge], [5:0-2-5,Edge], [8:0-3-10,Edge], [10:0-4-0.0-3-0]

[illegible]

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -- 2-6-0, Right 2x4 SPF No.2 -- 2-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(lb/size) 2=1215/0-5-8, 8=1210/0-5-8
Max Horiz 2=-230 (LC 8)
Max Uplift 2=-154 (LC 10), 8=-142 (LC 11)

FORCES

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/78, 2-4=-1275/162, 4-5=-1030/185, 5-6=-1048/198, 6-8=-1206/182, 8-9=0/81

BOT CHORD 2-11=-161/1136, 8-11=-161/1136

WEBS 4-11=0/178, 4-10=-479/210, 5-10=-86/647, 6-10=-341/210

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-9-0 to 1-3-0, Interior (1) 1-3-0 to 8-4-9, Exterior (2) 8-4-9 to 14-4-9, Interior (1) 14-4-9 to 20-2-4, Exterior (2) 20-2-4 to 23-2-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 2 and 142 lb uplift at joint 8.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 2, 2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH-7473 (REV. 3/19/2020) BEFORE USE.

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

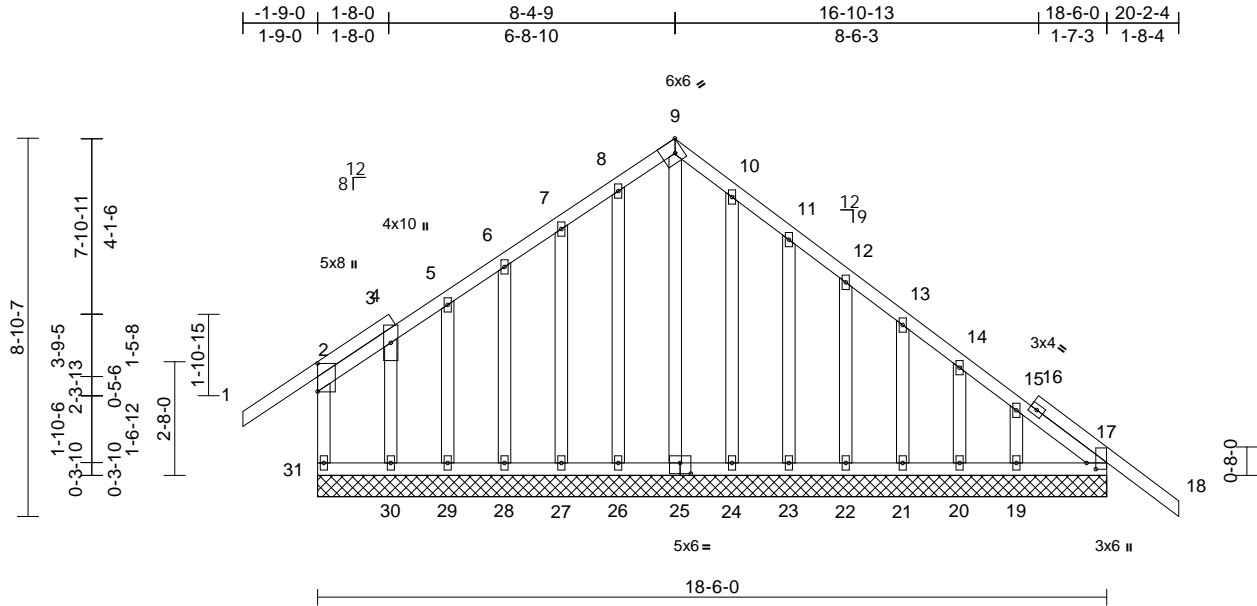


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
J21-006507	B01	Roof Special Supported Gable	2	1	I47256872
Job Reference (optional)					

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Page: 1



Scale = 1:54

Plate Offsets (X, Y): [2:0-7-15,Edge], [9:0-2-4,Edge], [17:0-1-12,0-2-9], [25:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	197/144
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horiz(TL)	0.01	17	n/a	n/a	
BCLL	0.0	Code	IRC2012/TPI2007	Matrix-AS							
BCDL	10.0										
Weight: 121 lb FT = 10%											

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(lb/size)	17=285/18-6-0, 19=114/18-6-0, 20=143/18-6-0, 21=131/18-6-0, 22=134/18-6-0, 23=133/18-6-0, 24=136/18-6-0, 25=138/18-6-0, 26=140/18-6-0, 27=132/18-6-0, 28=135/18-6-0, 29=131/18-6-0, 30=75/18-6-0, 31=297/18-6-0, 32=285/18-6-0
Max Horiz	31=256 (LC 8)
Max Uplift	17=99 (LC 7), 19=50 (LC 11), 20=50 (LC 11), 21=54 (LC 11), 22=52 (LC 11), 23=61 (LC 11), 24=32 (LC 11), 25=58 (LC 8), 26=11 (LC 10), 27=58 (LC 10), 28=47 (LC 10), 29=42 (LC 10), 30=56 (LC 10), 31=62 (LC 10), 32=99 (LC 7)
Max Grav	17=293 (LC 18), 19=136 (LC 19), 20=143 (LC 1), 21=137 (LC 19), 22=136 (LC 19), 23=134 (LC 19), 24=147 (LC 19), 25=227 (LC 10), 26=140 (LC 1), 27=137 (LC 18), 28=138 (LC 18), 29=131 (LC 1), 30=119 (LC 18), 31=297 (LC 1), 32=293 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension

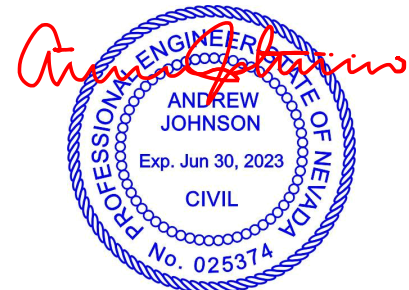
TOP CHORD	2-31=285/218, 1-2=0/76, 2-3=75/146, 3-5=59/156, 5-6=100/201, 6-7=134/241, 7-8=173/289, 8-9=190/306, 9-10=199/322, 10-11=175/298, 11-12=163/242, 12-13=177/195, 13-14=192/200, 14-15=204/200, 15-17=208/211, 17-18=0/81
BOT CHORD	30-31=185/199, 29-30=185/199, 28-29=185/199, 27-28=185/199, 26-27=185/199, 24-26=187/200, 23-24=187/200, 22-23=187/200, 21-22=187/200, 20-21=187/200, 19-20=187/200, 17-19=187/200
WEBS	9-25=281/126, 8-26=111/28, 7-27=112/74, 6-28=108/62, 5-29=109/65, 3-30=116/56, 10-24=123/47, 11-23=106/79, 12-22=110/68, 13-21=110/69, 14-20=111/71, 15-19=132/62

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-9-0 to 1-3-0, Exterior (2) 1-3-0 to 5-4-9, Corner (3) 5-4-9 to 11-4-9, Exterior (2) 11-4-9 to 17-2-4, Corner (3) 17-2-4 to 20-2-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.

- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 31, 99 lb uplift at joint 17, 58 lb uplift at joint 25, 11 lb uplift at joint 26, 58 lb uplift at joint 27, 47 lb uplift at joint 28, 42 lb uplift at joint 29, 56 lb uplift at joint 30, 32 lb uplift at joint 24, 61 lb uplift at joint 23, 52 lb uplift at joint 22, 54 lb uplift at joint 21, 50 lb uplift at joint 20, 50 lb uplift at joint 19 and 99 lb uplift at joint 17.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 2,2021

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

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



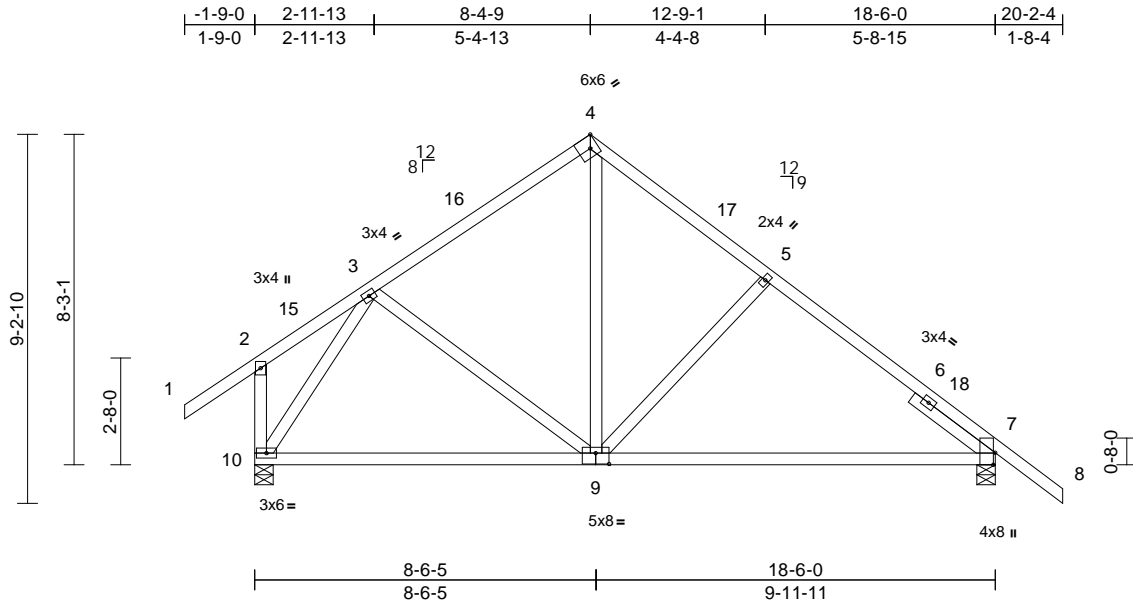
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	
J21-006507	B02	Roof Special	11	1	
					Job Reference (optional)

I47256873

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Page: 1



Scale = 1:57.6

Plate Offsets (X, Y): [4:0-2-5,Edge], [7:0-3-10,Edge], [9:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.15	9-13	>999	240	MT20	197/144
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.64	Vert(TL)	-0.38	9-13	>576	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.40	Horiz(TL)	-0.01	7	n/a	n/a		
BCLL	0.0	Code	IRC2012/TPI2007	Matrix-AS								
BCDL	10.0										Weight: 86 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Right 2x4 SPF No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 7=1051/0-5-8, 10=1071/0-5-8
Max Horiz 10=270 (LC 8)
Max Uplift 7=134 (LC 11), 10=124 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/84, 2-3=-99/136, 3-4=-779/174,
4-5=-802/185, 5-7=-968/169, 7-8=0/81,
2-10=-244/191

BOT CHORD 7-10=-98/775

WEBS 3-9=-52/156, 4-9=-72/454, 5-9=-353/214,
3-10=-903/114

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 1-3-0 to 4-3-0, Interior (1) 4-3-0 to 8-4-9, Exterior (2) 8-4-9 to 14-4-9, Interior (1) 14-4-9 to 20-2-4, Exterior (2) 20-2-4 to 23-2-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 10 and 134 lb uplift at joint 7.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



August 2, 2021

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