

RE: P230177-01 - Roof - Osage 70

Site Information:

Project Customer: Clover & Hive Project Name: Tupelo - Farmhouse

Lot/Block: 70 Subdivision: Osage

Model:

Address: 2125 SW Rutherford Dr

City: Lee's Summit

State: MO

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

Design Code: IRC2018/TPI2014

Wind Code: ASCE 7-16 Wind Speed: 115 mph

Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.6

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Floor Load: N/A psf

Mean Roof Height (feet): 25

Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I57761075	A1	4/14/23	35	I57761109	J7	4/14/23
2	I57761076	A2	4/14/23	36	I57761110	J8	4/14/23
3	I57761077	A3	4/14/23	37	I57761111	J9	4/14/23
4	I57761078	A4	4/14/23	38	I57761112	J10	4/14/23
5	I57761079	A5	4/14/23	39	I57761113	J11	4/14/23
6	I57761080	B1	4/14/23	40	I57761114	J12	4/14/23
7	I57761081	B2	4/14/23	41	I57761115	J12A	4/14/23
8	I57761082	B3	4/14/23	42	I57761116	J13	4/14/23
9	I57761083	B4	4/14/23	43	I57761117	J14	4/14/23
10	I57761084	B5	4/14/23	44	I57761118	J15	4/14/23
11	I57761085	B6	4/14/23	45	I57761119	J16	4/14/23
12	I57761086	B7	4/14/23	46	I57761120	LAY1	4/14/23
13	I57761087	B8	4/14/23	47	I57761121	LAY2	4/14/23
14	I57761088	C1	4/14/23	48	I57761122	LAY3	4/14/23
15	I57761089	C2	4/14/23	49	I57761123	V1	4/14/23
16	I57761090	C3	4/14/23	50	I57761124	V2	4/14/23
17	I57761091	C4	4/14/23	51	I57761125	V3	4/14/23
18	I57761092	C5	4/14/23	52	I57761126	V4	4/14/23
19	I57761093	D1	4/14/23	53	I57761127	V5	4/14/23
20	I57761094	D2	4/14/23	54	I57761128	V6	4/14/23
21	I57761095	D3	4/14/23	55	I57761129	V7	4/14/23
22	I57761096	E1	4/14/23	56	I57761130	V8	4/14/23
23	I57761097	E2	4/14/23	57	I57761131	V9	4/14/23
24	I57761098	E3	4/14/23	58	I57761132	V10	4/14/23
25	I57761099	G1	4/14/23	59	I57761133	VG1	4/14/23
26	I57761100	G2	4/14/23	60	I57761134	VG2	4/14/23
27	I57761101	G3	4/14/23				
28	I57761102	G4	4/14/23				
29	I57761103	J1	4/14/23				
30	I57761104	J2	4/14/23				
31	I57761105	J3	4/14/23				
32	I57761106	J4	4/14/23				
33	I57761107	J5	4/14/23				
34	I57761108	J6	4/14/23				

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2024.

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



April 14, 2023



RE: P230177-01 - Roof - Osage 70

Site Information:

Project Customer: Clover & Hive Project Name: Tupelo - Farmhouse - 3 car

Lot/Block: 70 Subdivision: Osage

Model:

Address: 2125 SW Rutherford Dr

City: Lee's Summit State: MO

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

Design Code: IRC2018/TPI2014

Wind Code: ASCE 7-16 Wind Speed: 115 mph

Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.6

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Floor Load: N/A psf

Mean Roof Height (feet): 25

Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I57761075	A1	4/14/23	35	I57761109	J7	4/14/23
2	I57761076	A2	4/14/23	36	I57761110	J8	4/14/23
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4	I57761078	A4	4/14/23	38	I57761112	J10	4/14/23
5	I57761079	A5	4/14/23	39	I57761113	J11	4/14/23
6	I57761080	B1	4/14/23	40	I57761114	J12	4/14/23
7	I57761081	B2	4/14/23	41	I57761115	J12A	4/14/23
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9	I57761083	B4	4/14/23	43	I57761117	J14	4/14/23
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21	I57761095	D3	4/14/23	55	I57761129	V7	4/14/23
22	I57761096	E1	4/14/23	56	I57761130	V8	4/14/23
23	I57761097	E2	4/14/23	57	I57761131	V9	4/14/23
24	I57761098	E3	4/14/23	58	I57761132	V10	4/14/23
25	I57761099	G1	4/14/23	59	I57761133	VG1	4/14/23
26	I57761100	G2	4/14/23	60	I57761134	VG2	4/14/23
27	I57761101	G3	4/14/23				
28	I57761102	G4	4/14/23				
29	I57761103	J1	4/14/23				
30	I57761104	J2	4/14/23				
31	I57761105	J3	4/14/23				
32	I57761106	J4	4/14/23				
33	I57761107	J5	4/14/23				
34	I57761108	J6	4/14/23				

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2024.

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



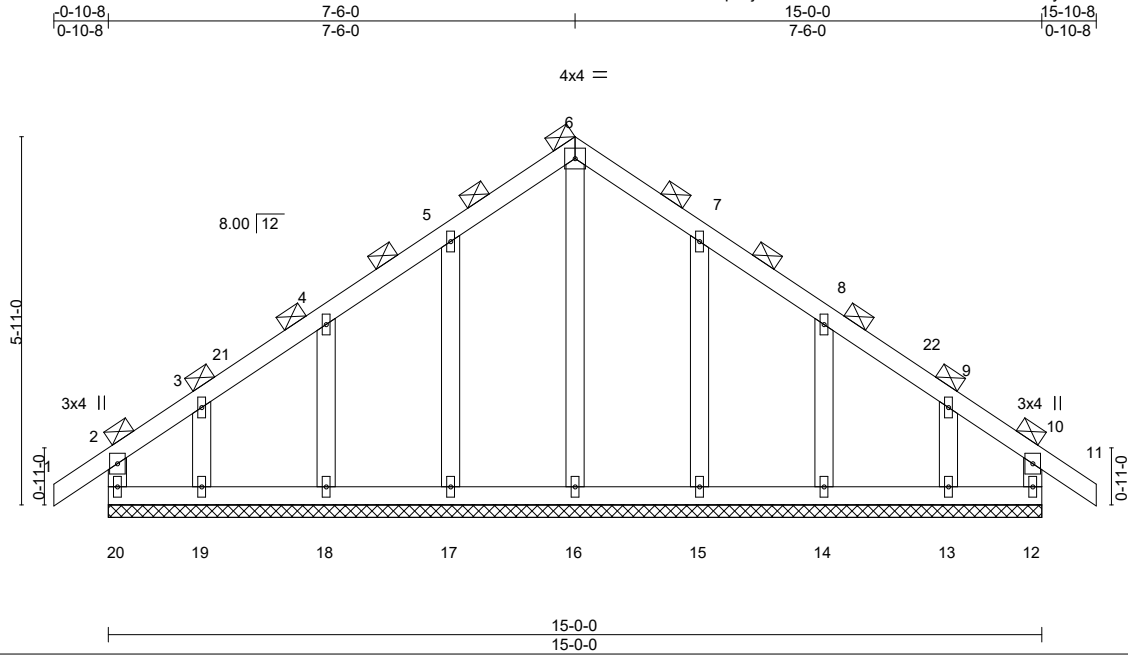
April 14, 2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761075
P230177-01	A1	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:29 2023 Page 1
ID:tNc0JE71cPCqdlj6CNuNlzOoS8-F8oJds0aaG7vo36B3Skyi8Oma8kZsAeDZRso24zR8Yi



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	3-0-0	TC 0.20	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) -0.00 11 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Vert(CT) -0.01 11 n/r 90		
BCDL 10.0	Rep Stress Incr NO	Matrix-R	Horz(CT) 0.00 12 n/a n/a		
	Code IRC2018/TPI2014			Weight: 79 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
10-12: 2x4 SPF No.3
OTHERS 2x4 SPF No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

All bearings 15-0-0.
(lb) - Max Horz 20=-249(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 12, 18, 14 except 20=-109(LC 6), 17=-102(LC 10), 19=-151(LC 10),
15=-100(LC 11), 13=-140(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 12 except 20=253(LC 18), 16=290(LC 20), 17=294(LC 17),
18=280(LC 1), 19=280(LC 17), 15=292(LC 18), 14=280(LC 18), 13=262(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-153/350, 6-7=-153/350
WEBS 6-16=-269/28

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 4-6-0, Corner(3R) 4-6-0 to 10-6-0, Exterior(2N) 10-6-0 to 12-10-8, Corner(3E) 12-10-8 to 15-10-8 zone; cantilever left and right exposed ; 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
- 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 1.5x4 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) 12, 18, 14 except (jt=lb) 20=109, 17=102, 19=151, 15=100, 13=140.
- 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.



April 14, 2023

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

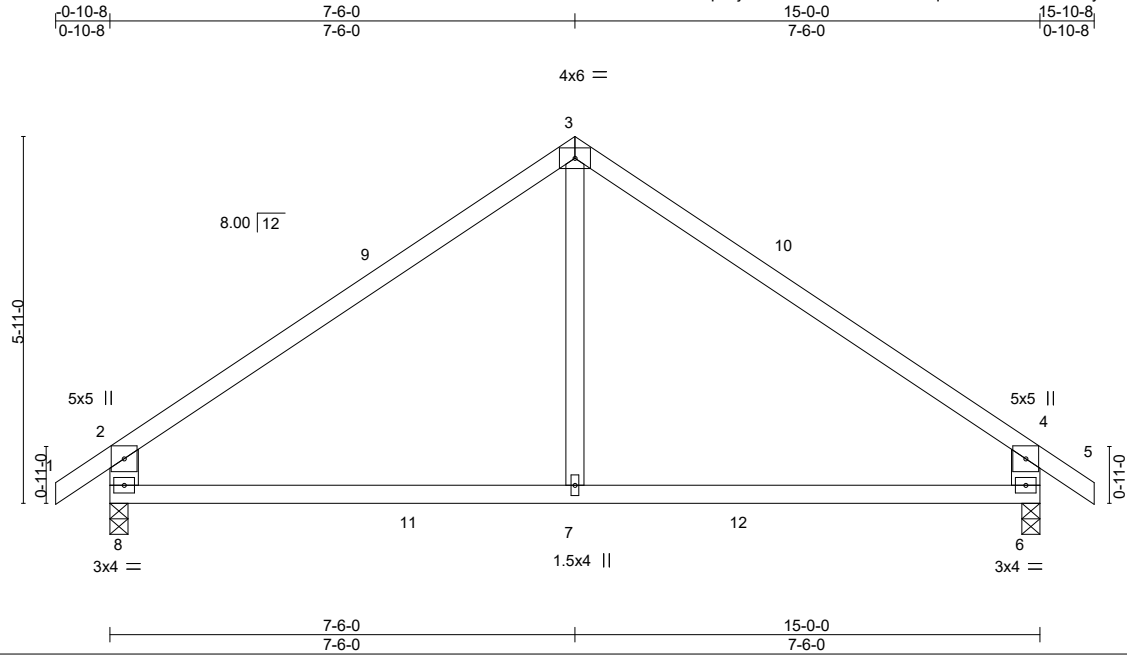


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761076
P230177-01	A2	Common	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:31 2023 Page 1
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Scale = 1:37.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.89	Vert(LL)	-0.09	6-7	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.62	Vert(CT)	-0.15	6-7	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-R					Weight: 61 lb	FT = 20%
	Code IRC2018/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SPF No.2 *Except*
3-7: 2x4 SPF No.3

BRACING-

TOP CHORD Sheathed or 4-7-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 6=0-3-8
Max Horz 8=168(LC 9)
Max Uplift 8=-88(LC 10), 6=-88(LC 11)
Max Grav 8=806(LC 17), 6=806(LC 18)

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

TOP CHORD 2-3=-806/138, 3-4=-806/138, 2-8=-693/195, 4-6=-693/193
BOT CHORD 7-8=0/596, 6-7=0/596
WEBS 3-7=0/404

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-6-0, Exterior(2R) 4-6-0 to 10-6-0, Interior(1) 10-6-0 to 12-10-8, Exterior(2E) 12-10-8 to 15-10-8 zone; cantilever left and right exposed; 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
- 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) 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.



April 14, 2023

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	Roof - Osage 70	I57761077
P230177-01	A3	Roof Special	3	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:32 2023 Page 1
ID:tNc0JE71cPCqDLj6CNuNlzOoS8-fjURF12StBVTXrmkaHfKn0BsLgs3SffFO5SePzR8Yf

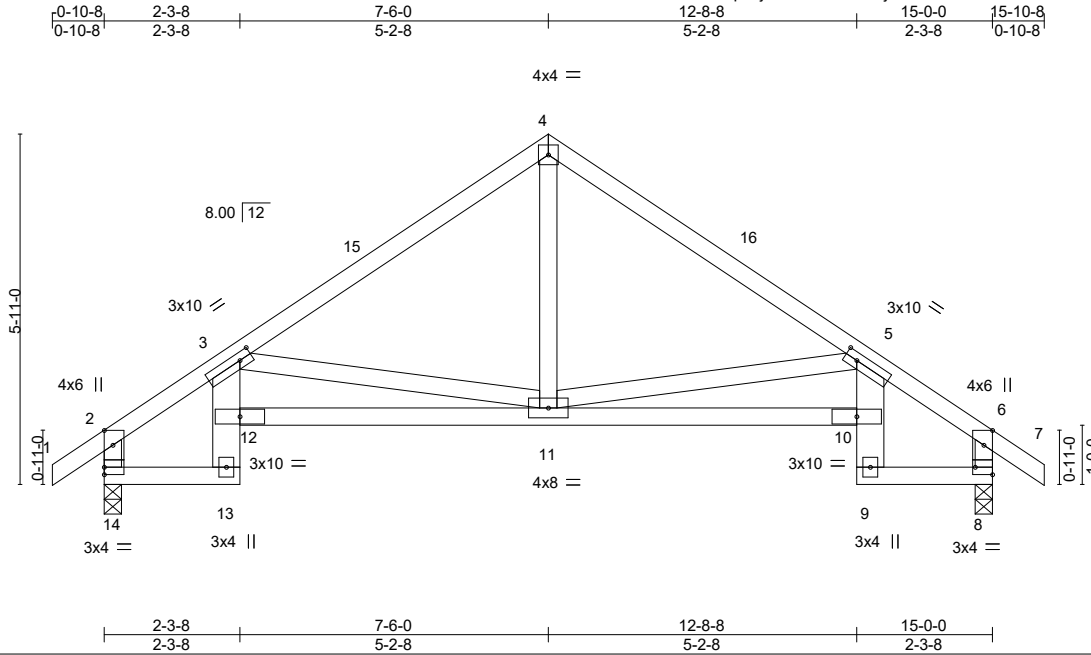


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-2-8,0-1-8], [5:0-2-8,0-1-8], [6:0-3-0,Edge], [8:Edge,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15		TC 0.58	Vert(LL) -0.05	10-11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15		BC 0.49	Vert(CT) -0.11	10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr NO		WB 0.47	Horz(CT) 0.10	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH					Weight: 77 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-13,5-9: 2x6 SPF No.2
WEBS 2x4 SPF No.3 *Except*
2-14,6-8: 2x4 SP No.2

REACTIONS.

(size) 14=0-3-8, 8=0-3-8
Max Horz 14=-166(LC 8)
Max Uplift 14=-87(LC 10), 8=-87(LC 11)
Max Grav 14=733(LC 1), 8=733(LC 1)

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

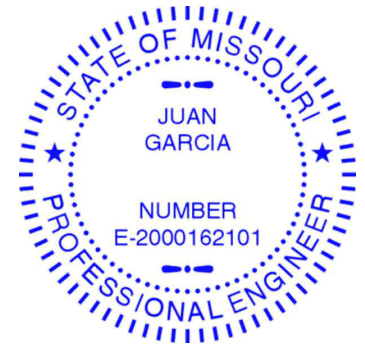
TOP CHORD 2-3=-680/111, 3-4=-786/129, 4-5=-786/129, 5-6=-680/119, 2-14=-634/133,
6-8=-634/135
BOT CHORD 13-14=-94/500, 11-12=-282/1339, 10-11=-144/1243, 8-9=-23/442
WEBS 4-11=0/405, 5-11=-701/254, 3-11=-788/304

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-12, Interior(1) 2-0-12 to 4-6-0, Exterior(2R) 4-6-0 to 10-6-0, Interior(1) 10-6-0 to 12-10-8, Exterior(2E) 12-10-8 to 15-10-8 zone; cantilever left and right exposed; 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
- 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) 14, 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.

BRACING-

TOP CHORD Sheathed or 5-11-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.



April 14, 2023

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

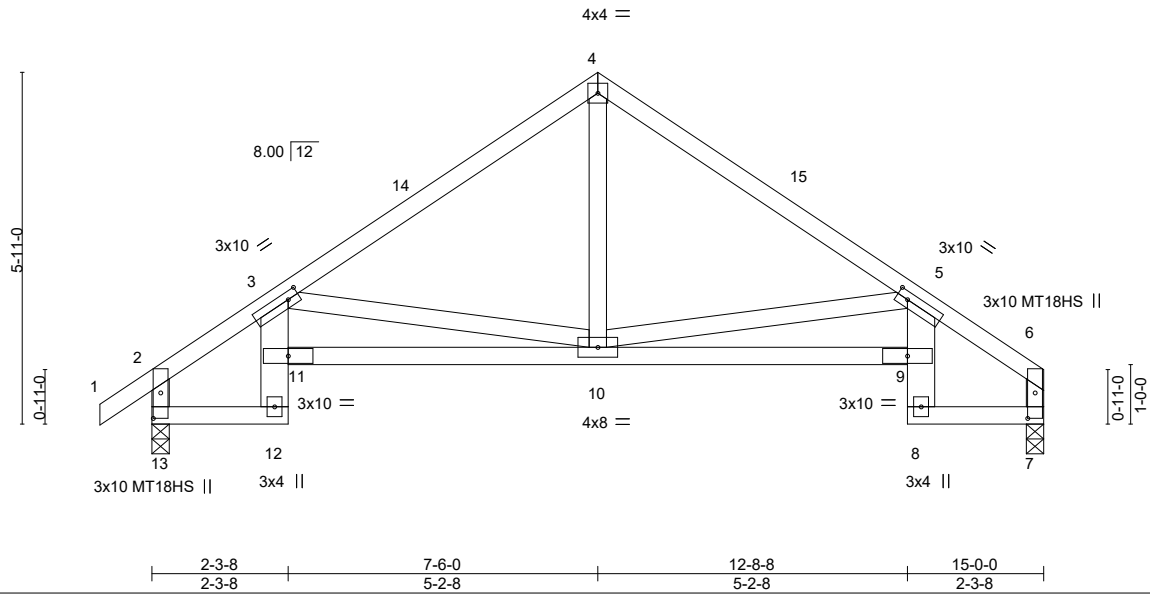
Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761078
P230177-01	A4	Roof Special	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:33 2023 Page 1

ID:tNc0JE71cPCqdLlj6CNuNlzOoS8-8v1qSD34eUdKHgQyllous_YMaf?yovypU2q0BrzR8Ye

0-10-8	2-3-8	7-6-0	12-8-8	15-0-0
0-10-8	2-3-8	5-2-8	5-2-8	2-3-8



Scale = 1:38.8

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15		TC 0.59	Vert(LL) -0.06	9-10	>999	240		MT20	197/144
TCDL 10.0	Lumber DOL 1.15		BC 0.50	Vert(CT) -0.11	9-10	>999	180		MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr NO		WB 0.47	Horz(CT) 0.10	7	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH							
									Weight: 76 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 3-12,5-8: 2x6 SPF No.2
 WEBS 2x4 SPF No.3 *Except*
 2-13,6-7: 2x4 SP No.2

REACTIONS.

(size) 13=0-3-8, 7=0-3-8
 Max Horz 13=160(LC 7)
 Max Uplift 13=-87(LC 10), 7=-64(LC 11)
 Max Grav 13=736(LC 1), 7=659(LC 1)

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

TOP CHORD 2-3=-682/112, 3-4=-790/141, 4-5=-790/141, 5-6=-675/119, 2-13=-636/136, 6-7=-537/88
 BOT CHORD 12-13=-105/493, 10-11=-304/1326, 9-10=-191/1273, 7-8=-46/453
 WEBS 4-10=-4/406, 5-10=-728/273, 3-10=-782/312

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-0-12, Interior(1) 2-0-12 to 4-6-0, Exterior(2R) 4-6-0 to 10-6-0, Interior(1) 10-6-0 to 11-10-4, Exterior(2E) 11-10-4 to 14-10-4 zone; cantilever left and right exposed; 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 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.



April 14, 2023

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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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	Roof - Osage 70	
P230177-01	A5	Common Girder	1	2	Job Reference (optional)	I57761079

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:36 2023 Page 1

ID:tNc0JE71cPCqdLlj6CNuNlZ0oS8-YUjy5F5zxP?v888XzQMbUdAq9y0K?E3FA03gnAzR8Yb

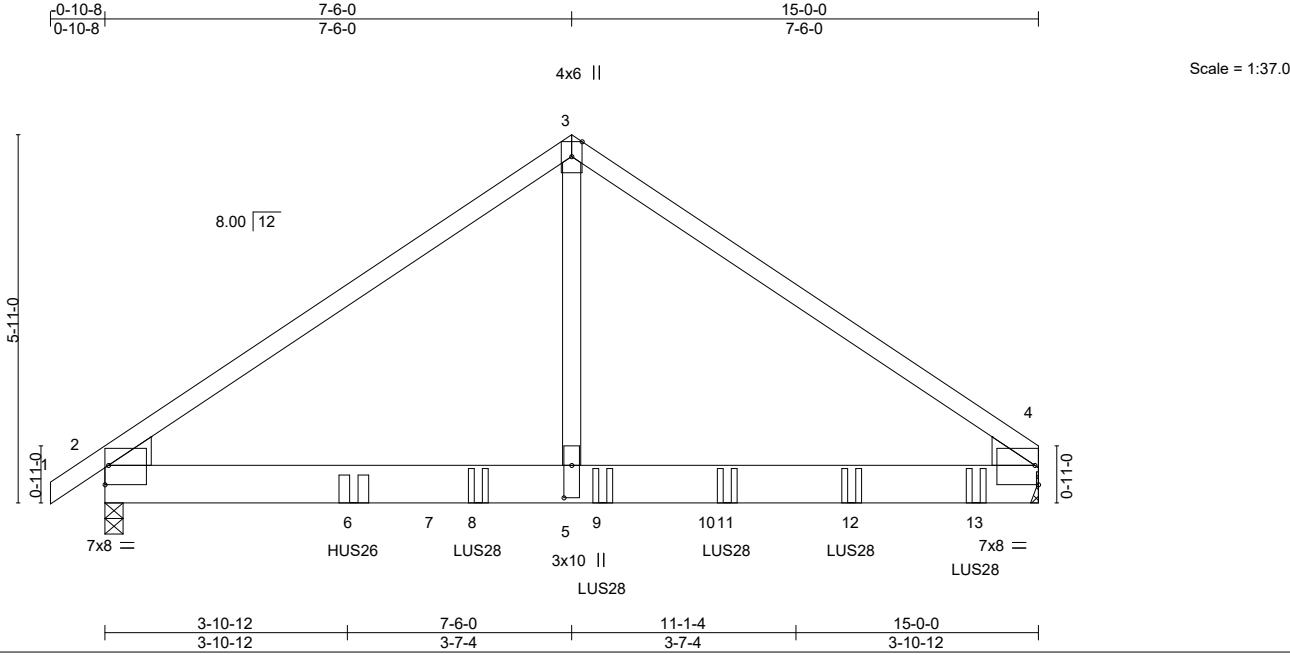


Plate Offsets (X,Y)-- [2:Edge,0-3-12], [4:Edge,0-3-12], [5:0-6-4,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.09	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.16		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.02		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH				Weight: 170 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP 1650F 1.5E	TOP CHORD	Sheathed or 5-6-4 oc purlins.
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
WEDGE			
Left: 2x6 SPF No.2 , Right: 2x6 SPF No.2			

REACTIONS. (size) 2=0-3-8, 4=Mechanical
 Max Horz 2=139(LC 7)
 Max Uplift 2=-720(LC 8), 4=-722(LC 9)
 Max Grav 2=3765(LC 1), 4=4829(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4998/870, 3-4=-4974/865
 BOT CHORD 2-5=-616/3892, 4-5=-616/3892
 WEBS 3-5=-846/5212

- NOTES-**
- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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) 2=720, 4=722.
 - 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.
 - Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 4-0-0 from the left end to connect truss(es) to front face of bottom chord.
 - Use Simpson Strong-Tie LUS28 (6-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-0-0 from the left end to 14-0-0 to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.



April 14,2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761079
P230177-01	A5	Common Girder	1	2	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:36 2023 Page 2
ID:tNc0JE71cPCqdLlj6CNuNlzOoS8-YUjy5F5zxP?v888XzQMbUdAq9y0K?E3FA03gnAzR8Yb

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 6=-1541(F) 8=-1130(F) 9=-1130(F) 11=-1130(F) 12=-1130(F) 13=-1130(F)

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761080
P230177-01	B1	Flat Girder	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:38 2023 Page 1
ID:tNc0JE71cPCqdLlj6CNuNlzOoS8-UtrjWx7DT1FdNSlw4rO3Z2G7Tme1T2XYdKYns2zR8YZ

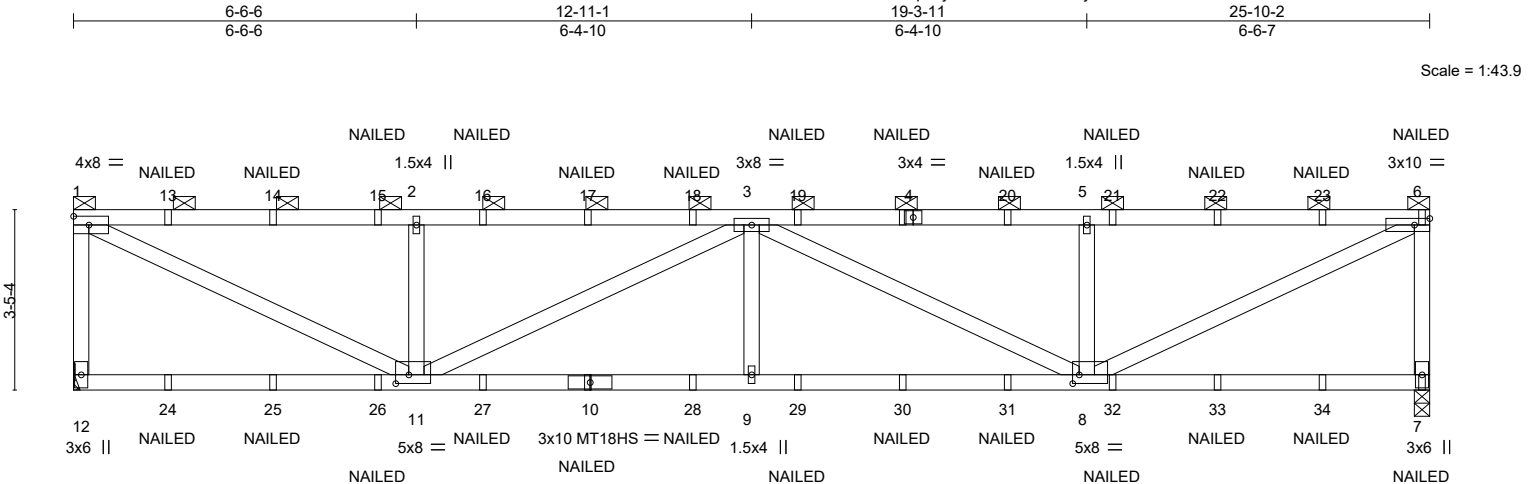


Plate Offsets (X,Y)-- [8:0-1-8,0-2-0], [11:0-3-0,0-2-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.22	9-11	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.53	9-11	>581	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.96	Horz(CT)	0.07	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH					Weight: 130 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E *Except*
4-6: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 1650F 1.5E
WEBS 2x4 SPF No.3 *Except*
1-12,6-7,1-11,6-8: 2x4 SP No.2

REACTIONS.

(size) 12=Mechanical, 7=0-3-8
Max Horz 12=116(LC 7)
Max Uplift 12=-458(LC 4), 7=-505(LC 5)
Max Grav 12=1561(LC 1), 7=1671(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1486/494, 1-2=-2563/754, 2-3=-2563/754, 3-5=-2609/806, 5-6=-2609/806,
6-7=-1548/562
BOT CHORD 9-11=-1050/3399, 8-9=-1050/3399
WEBS 1-11=-813/2791, 2-11=-597/351, 3-11=-932/307, 3-9=0/363, 3-8=-881/248,
5-8=-679/399, 6-8=-885/2856

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; 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 MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=458, 7=505.
- 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.
- 10) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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



April 14, 2023

Continued on page 2

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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	Roof - Osage 70	I57761080
P230177-01	B1	Flat Girder	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:38 2023 Page 2
ID:tNc0JE71cPCqdLlj6CNuNlzOoS8-UtrjWx7DT1FdNSlw4rO3Z2G7Tme1T2XYdKYns2zR8YZ

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-6=-70, 7-12=-20

Concentrated Loads (lb)

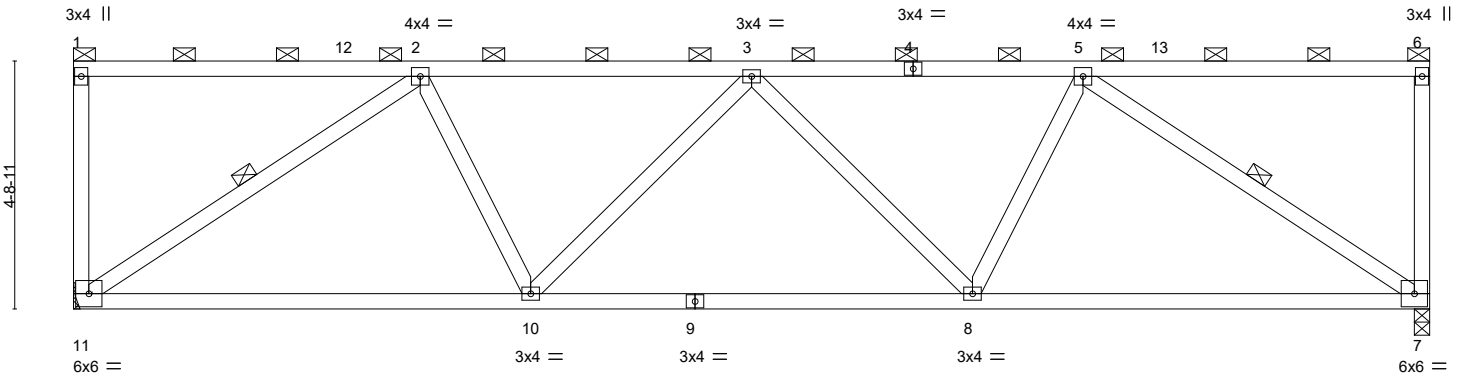
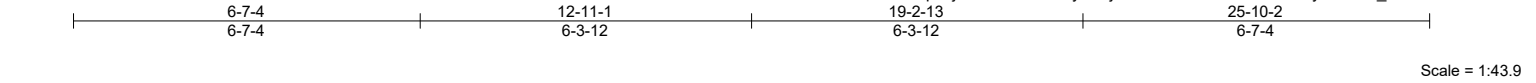
Vert: 4=-44(F) 6=-82(F) 7=-35(F) 10=-24(F) 13=-44(F) 14=-44(F) 15=-44(F) 16=-44(F) 17=-44(F) 18=-44(F) 19=-44(F) 20=-44(F) 21=-44(F) 22=-44(F) 23=-44(F) 24=-24(F) 25=-24(F) 26=-24(F) 27=-24(F) 28=-24(F) 29=-24(F) 30=-24(F) 31=-24(F) 32=-24(F) 33=-24(F) 34=-24(F)



Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	157761081
P230177-01	B2	Flat	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:39 2023 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	2-0-0	Plate Grip DOL	1.15	TC	0.84	in (loc)	l/defl	L/d	MT20	197/144
TCDL	10.0	1.15	Lumber DOL	1.15	BC	0.91	Vert(LL)	-0.17 8-10	>999	240	
BCLL	0.0 *	NO	Rep Stress Incr	NO	WB	0.62	Vert(CT)	-0.37 8-10	>824	180	
BCDL	10.0	Code IRC2018/TPI2014	Code	IRC2018/TPI2014	Matrix-SH		Horz(CT)	0.06 7	n/a	n/a	
										Weight: 130 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-6: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2 *Except*
9-11: 2x4 SP 1650F 1.5E
WEBS 2x4 SPF No.3 *Except*
1-11,6-7: 2x4 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (3-6-5 max.): 1-6, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-4-1 oc bracing.
WEBS 1 Row at midpt 2-11, 5-7

REACTIONS.

(size) 11=Mechanical, 7=0-3-8
Max Horz 11=-163(LC 6)
Max Uplift 11=-210(LC 6), 7=-210(LC 7)
Max Grav 11=1150(LC 1), 7=1150(LC 1)

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

TOP CHORD 2-3=-1508/500, 3-5=-1521/564
BOT CHORD 10-11=-332/1310, 8-10=-480/1724, 7-8=-387/1335
WEBS 2-11=-1550/635, 2-10=-56/487, 3-10=-315/231, 3-8=-296/138, 5-8=0/471, 5-7=-1587/571

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 5-1-12, Exterior(2) 5-1-12 to 20-8-6, Corner(3) 20-8-6 to 25-8-6 zone; cantilever left and right exposed; 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) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=210, 7=210.
- 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.



April 14, 2023

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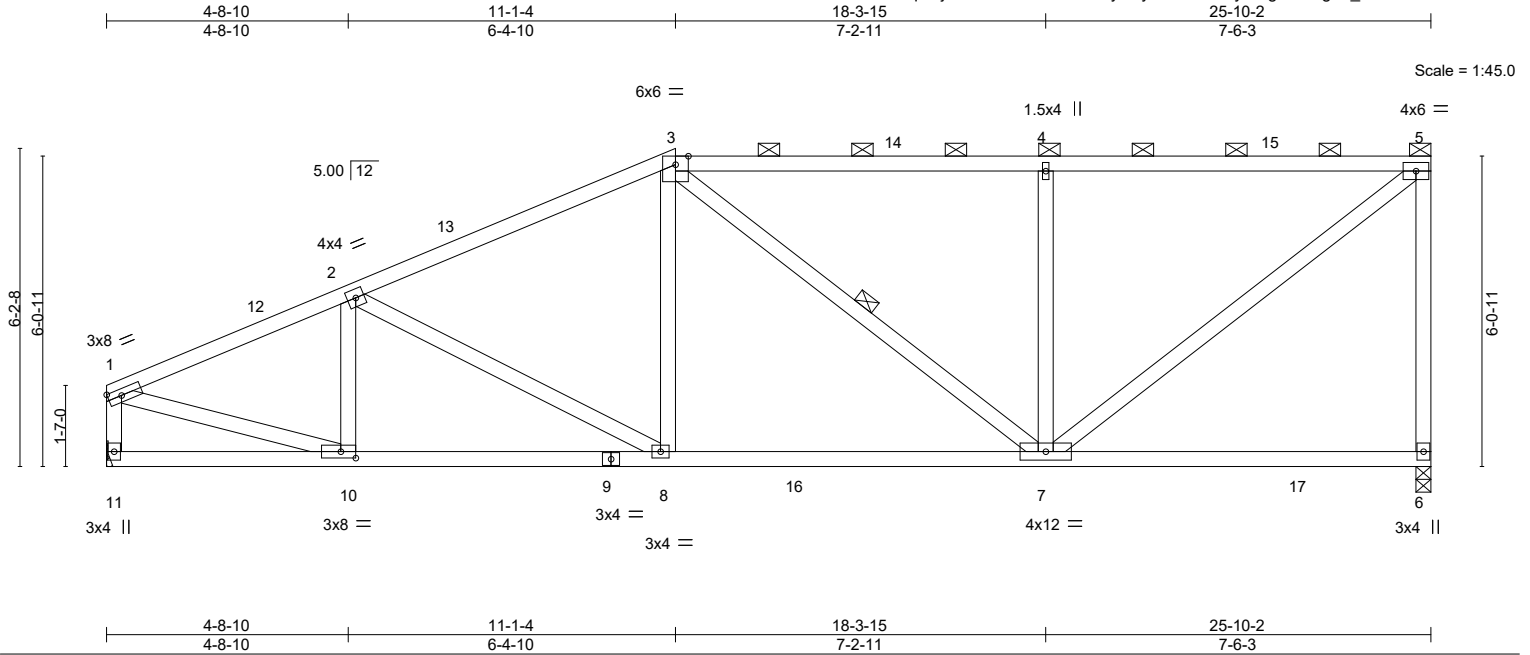


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	157761082
P230177-01	B3	Half Hip	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:41 2023 Page 1
ID:tNc0JE71cPCqDLj6CNuNizOoS8-vSWr8y95lydCEv1UmzymBgtd5zfsgT3_JlmRTNzR8YW



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.12	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.21				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.03				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							
								Weight: 137 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Sheathed or 3-11-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-4-4 max.): 3-5.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.3 *Except*	WEBS	1 Row at midpt 3-7
	5-6, 1-11: 2x4 SP No.2		

REACTIONS. (size) 6=0-3-8, 11=Mechanical
Max Horz 11=235(LC 9)
Max Uplift 6=192(LC 7), 11=114(LC 10)
Max Grav 6=1234(LC 2), 11=1203(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1635/206, 2-3=-1530/239, 3-4=-1196/233, 4-5=-1194/231, 5-6=-1093/225,
1-11=-1130/162
BOT CHORD 10-11=-222/290, 8-10=-276/1473, 7-8=-250/1342
WEBS 2-10=-292/119, 3-8=0/334, 4-7=-606/237, 1-10=-167/1470, 5-7=-234/1482

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-10-5, Exterior(2R) 6-10-5 to 15-4-2, Interior(1) 15-4-2 to 22-8-6, Exterior(2E) 22-8-6 to 25-8-6 zone; cantilever left and right exposed; 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
 - 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) 6=192, 11=114.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 14, 2023

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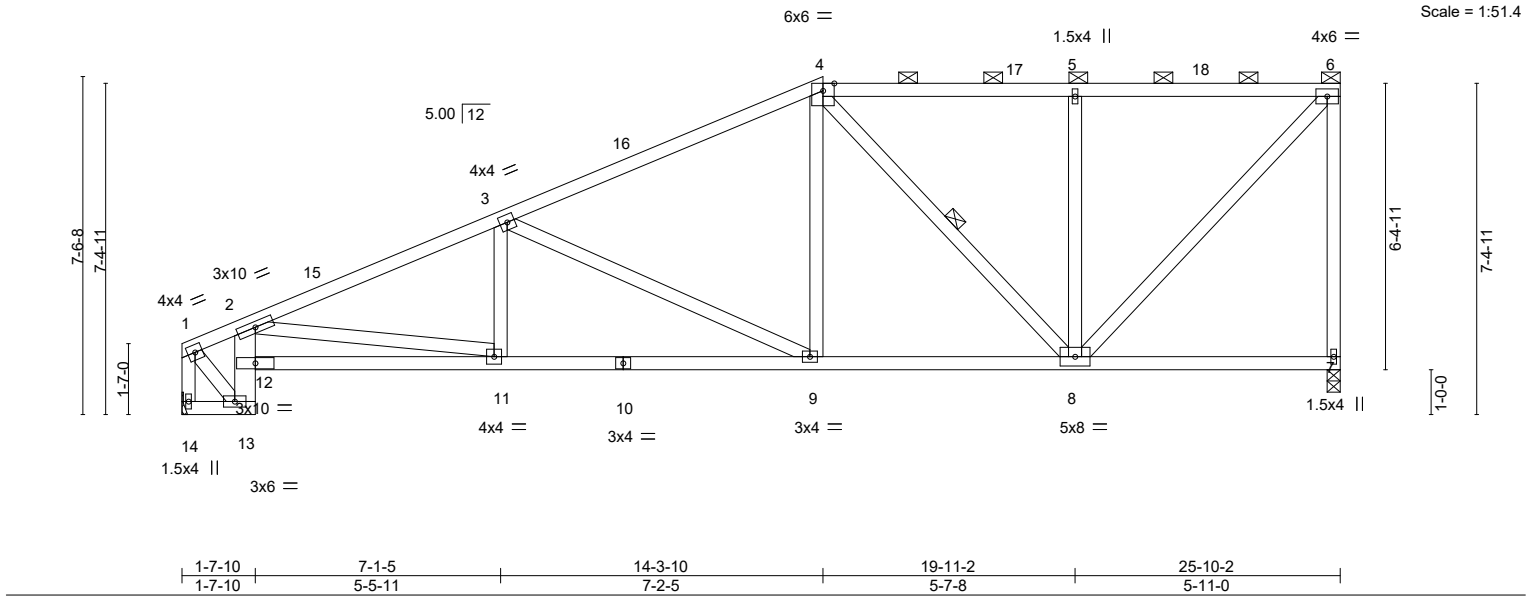


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761083
P230177-01	B4	Half Hip	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:43 2023 Page 1
ID: tNc0JE71cPCqdlj6CNuNlzOoS8-rqecZeBMHZtvUDbtO_EG5z_fnKO8JrHncFYXGzR8YU



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.93	Vert(LL) -0.18	9-11	>999	240		MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.88	Vert(CT) -0.39	9-11	>784	180			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.96	Horz(CT) 0.10	7	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH							
								Weight: 144 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-13: 2x6 SP 2400F 2.0E
WEBS 2x4 SPF No.3 *Except*
6-7, 1-14: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed, except end verticals, and 2-0-0 oc purlins (5-5-15 max.):
4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-8

REACTIONS.

(size) 7=0-3-8, 14=Mechanical
Max Horz 14=275(LC 7)
Max Uplift 7=-185(LC 7), 14=-134(LC 10)
Max Grav 7=1150(LC 1), 14=1150(LC 1)

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

TOP CHORD 1-2=-814/98, 2-3=-2155/270, 3-4=-1425/232, 4-5=-889/219, 5-6=-887/218,
6-7=-1095/210, 1-14=-1147/149
BOT CHORD 13-14=-261/307, 12-13=-676/104, 2-12=-646/126, 11-12=-570/1686, 9-11=-323/1930,
8-9=-228/1213
WEBS 2-11=-93/352, 3-11=0/280, 3-9=-777/230, 4-9=-18/478, 4-8=-485/107, 5-8=-473/185,
6-8=-204/1269, 1-13=-125/959

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-0-11, Exterior(2R) 10-0-11 to 18-6-9, Interior(1) 18-6-9 to 22-8-6, Exterior(2E) 22-8-6 to 25-8-6 zone; cantilever left and right exposed; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=185, 14=134.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 14, 2023

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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	Roof - Osage 70	157761084
P230177-01	B5	Hip	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:45 2023 Page 1

ID:tNc0JE71cPCqdLlj6CNuNlzOoS8-nDmM_KCcpA8djWKG?p0iLW2JCa?3cHEaEwkc9zR8YS

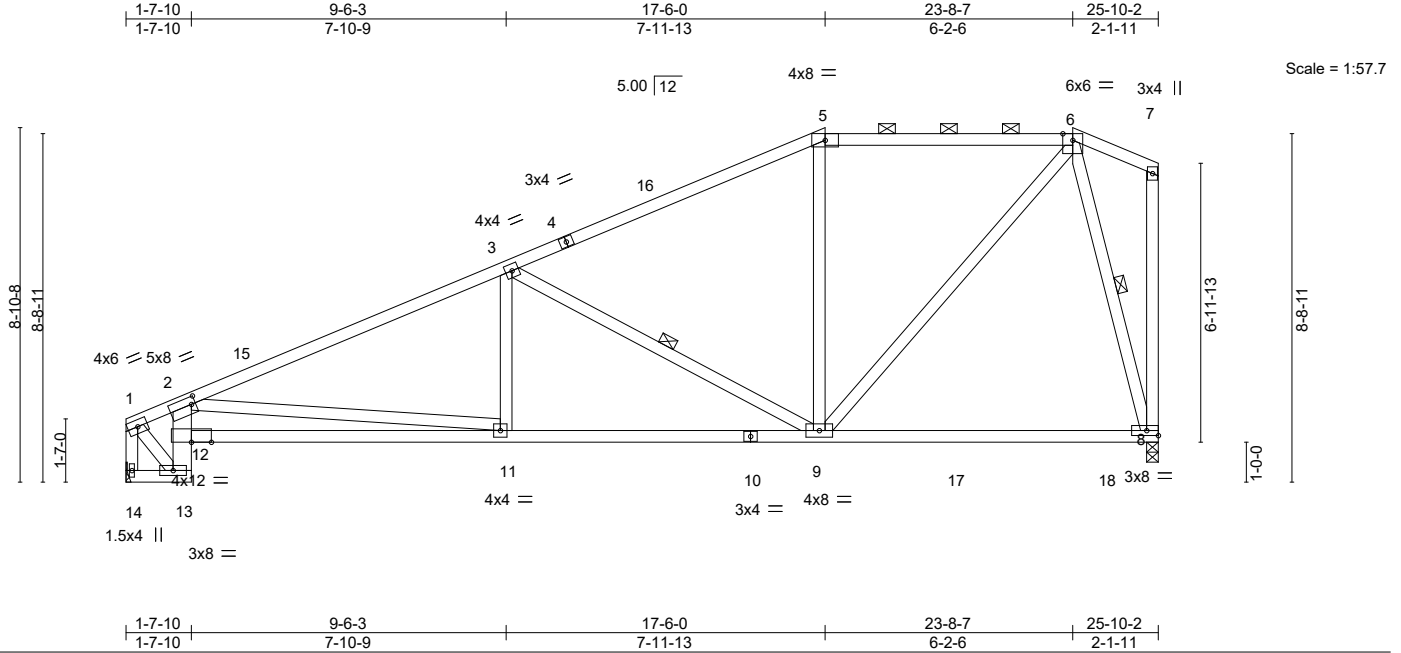


Plate Offsets (X,Y)-- [2:0-1-4,0-2-4]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.99	Vert(LL)	-0.29	8-9	>999	240	MT20	118/123
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.46	8-9	>667	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.64	Horz(CT)	0.11	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH						Weight: 147 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2 *Except*
2-13: 1 1/2" x 5 1/2" 2.0E Microllam® LVL, 10-12: 2x4 SP 1650F 1.5E
WEBS 2x4 SPF No.3 *Except*
7-8: 2x4 SP No.2

REACTIONS.

(size) 14=Mechanical, 8=0-3-8
Max Horz 14=301(LC 7)
Max Uplift 14=-148(LC 10), 8=-145(LC 7)
Max Grav 14=1189(LC 2), 8=1232(LC 2)

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

TOP CHORD 1-2=-843/113, 2-3=-2017/279, 3-5=-1120/219, 5-6=-949/243, 1-14=-1177/163
BOT CHORD 13-14=-285/328, 12-13=-706/115, 2-12=-634/160, 11-12=-625/2041, 9-11=-289/1780,
8-9=-110/291
WEBS 2-11=-483/356, 3-11=0/349, 3-9=-946/270, 1-13=-144/1014, 6-8=-1082/243,
6-9=-144/1022

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-3-2, Exterior(2R) 13-3-2 to 23-8-7, Exterior(2E) 23-8-7 to 25-8-6 zone; cantilever left and right exposed; 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
- 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) 14=148, 8=145.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 14, 2023

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

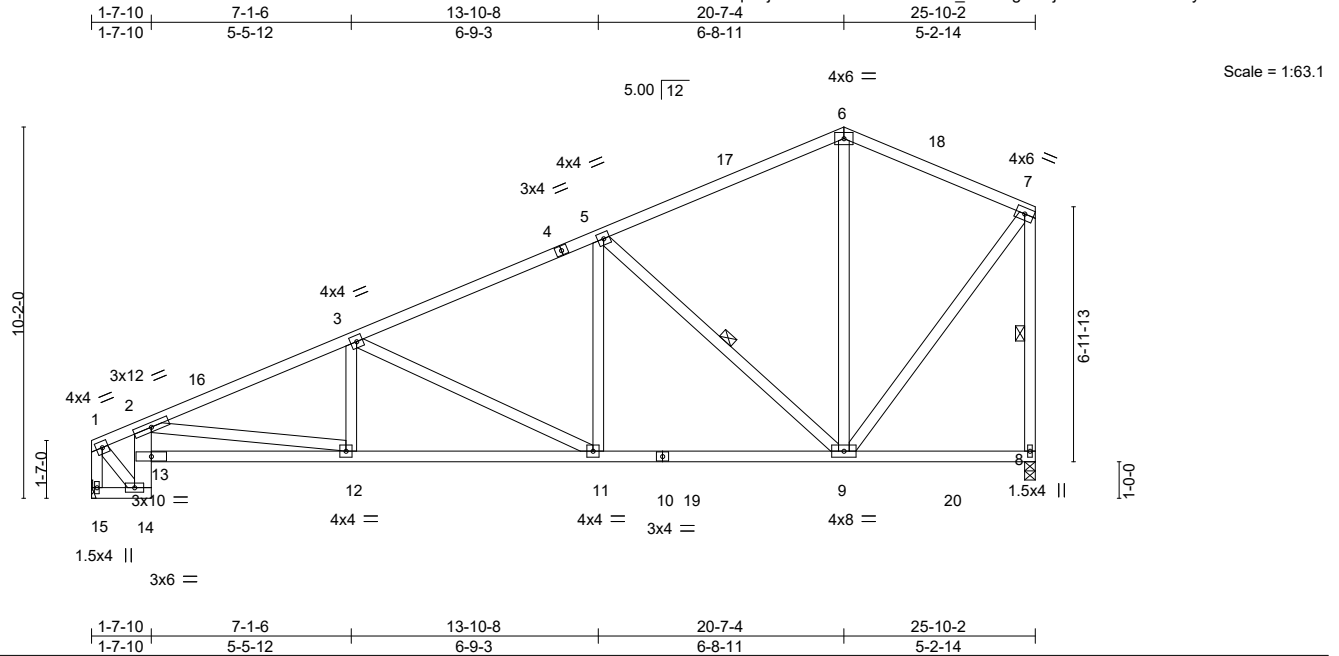
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761085
Tupelo-Roof	B6	Roof Special	1	1	Job Reference (optional)	

ID:tNc0JE71cPCqDLj6CNuNizOoS8-4i5c0Vzh_KczkBgtXPjLGY1U0bBBaE37yGdndzR092 8.630 s Feb 23 2023 MiTek Industries, Inc. Fri Apr 14 09:08:59 2023 Page 1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.86	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.96	Vert(LL) -0.14 9-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.81	Vert(CT) -0.23 9-11 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.10 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 150 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-14: 2x6 SP 2400F 2.0E
 WEBS 2x4 SPF No.3 *Except*
 1-15,7-8: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-9, 7-8

REACTIONS.

(size) 15=Mechanical, 8=0-3-8
 Max Horz 15=298(LC 7)
 Max Uplift 15=-153(LC 10), 8=-153(LC 10)
 Max Grav 15=1199(LC 2), 8=1235(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-845/126, 2-3=-2191/333, 3-5=-1524/245, 5-6=-715/216, 6-7=-688/225,
 1-15=-1188/172, 7-8=-1141/207
 BOT CHORD 14-15=-283/40, 13-14=-693/91, 2-13=-631/124, 12-13=-567/1805, 11-12=-390/1970,
 9-11=-190/1337
 WEBS 2-12=0/343, 3-11=-704/221, 5-11=-8/595, 5-9=-1012/247, 1-14=-130/998, 7-9=-118/960

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-7-4, Exterior(2R) 17-7-4 to 22-8-6, Exterior(2E) 22-8-6 to 25-8-6 zone; cantilever left and right exposed; 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
- 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 153 lb uplift at joint 15 and 153 lb uplift at joint 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.



April 14, 2023

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

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

8620 s Nov 21 2022 MiTek Industries, Inc. Fri Apr 14 08:05:17 2023 Page 1



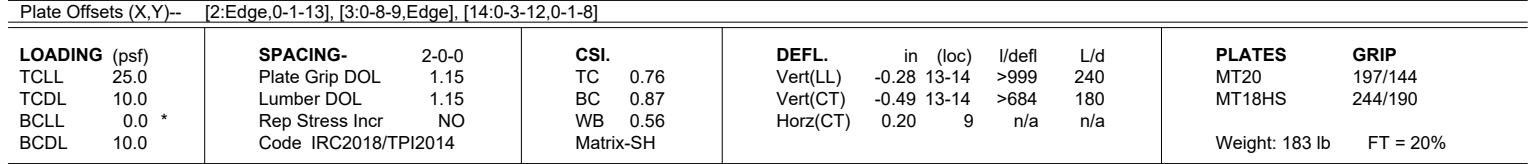
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	157761086
Tupelo-Roof	B7	Roof Special Girder	1	3	Job Reference (optional)	

8.630 s Nov 21 2022 MiTek Industries, Inc. Fri Apr 14 08:05:47 2023 Page 2
ID:tNc0JE71cPCqdLlj6CNuNlzOoS8-JoNW5UhhvLa9qTDXIN00WVdieWdVgYjna_3OwxTzQsXI

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-6=-70, 6-7=-70, 1-13=-20, 2-8=-20
Concentrated Loads (lb)
Vert: 14=-4809(F)

8.630 s Feb 23 2023 MiTek Industries, Inc. Fri Apr 14 09:10:27 2023 Page 1
ID:TnC0JE71cPCqdLlj6CNUlZ0oS8-VdPuUb2uFMhUljPnhutLwqB5rUgAoRw0MebHsWzR07g



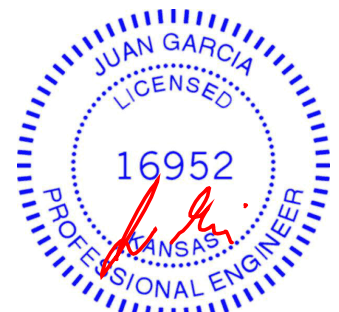
BRACING-	
TOP CHORD	Sheathed or 4-0-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-1-3 oc bracing: 11-13.
WEBS	1 Row at midpt 8-9, 4-11, 6-10

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

TOP CHORD	2-3=-1071/99, 3-4=-3020/434, 4-6=-1749/279, 6-7=-781/216, 7-8=-754/224, 8-9=-1248/206
BOT CHORD	2-15=-102/491, 3-14=-418/2314, 13-14=-520/2805, 11-13=-520/2808, 10-11=-226/1520
WEBS	8-10=-132/1062, 7-10=-19/254, 4-13=0/427, 4-11=-1412/323, 6-11=-51/806, 6-10=-1176/284

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-5-1, Interior(1) 2-5-1 to 19-9-10, Exterior(2R) 19-9-10 to 24-10-12, Exterior(2E) 24-10-12 to 27-10-12 zone; cantilever left and right exposed ; 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
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 2 and 167 lb uplift at joint 9.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 14, 2023

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	157761088
P230177-01	C1	Roof Special	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:51 2023 Page 1

ID: tNc0JE71cPCqdlj6CNuNizOoS8-cN7dENHNP0unRRoPL476bnlK2?1b0xXSdsBzpozR8YM

0-10-8 3-3-8 6-5-7 9-3-12 16-0-15 22-9-10 29-6-5 35-0-0 39-1-12 42-0-0 42-10-8
0-10-8 3-3-8 3-1-15 2-10-5 6-9-3 6-8-11 6-8-11 5-5-11 4-1-12 2-10-4 0-10-8

Scale = 1:73.3

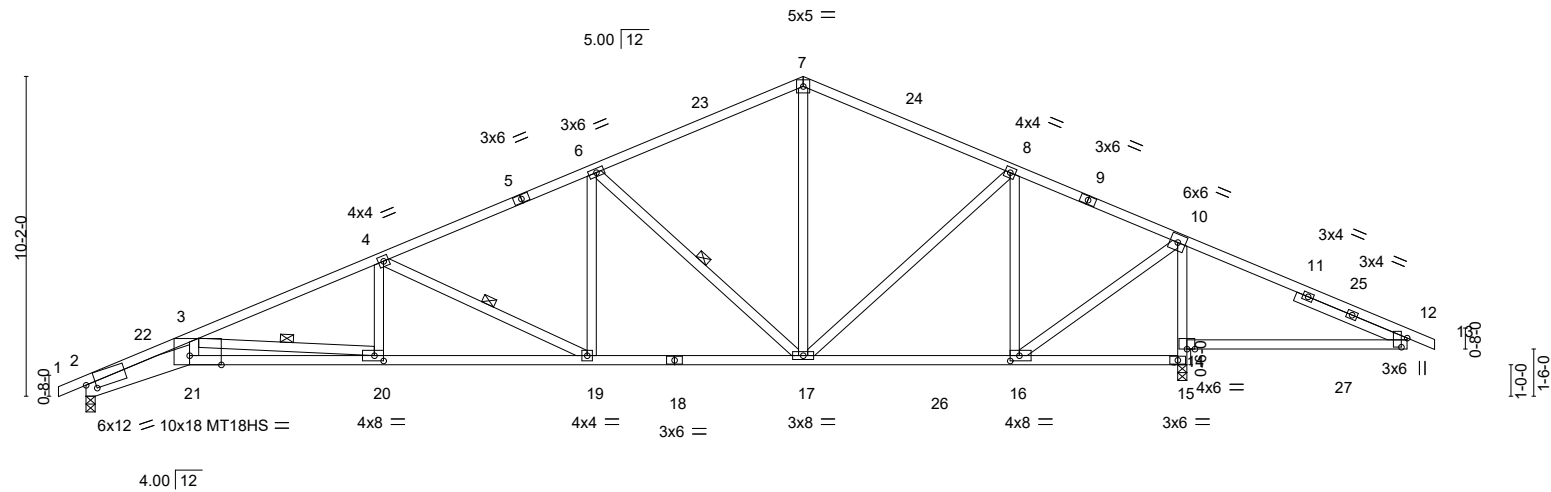


Plate Offsets (X,Y)--	[2:0-3-11,0-2-6], [12:0-3-7,0-2-3], [16:0-3-8,0-2-0], [20:0-3-8,0-2-0], [21:1-0-2,Edge]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.97	Vert(LL) -0.43	20-21	>959	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.99	Vert(CT) -0.76	20-21	>546	180	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.91	Horz(CT) 0.29	15	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH					Weight: 219 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E *Except*
7-9: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-21: 2x8 SP 2400F 2.0E, 18-21: 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.3
SLIDER Right 2x4 SP No.2 3-9-12

BRACING-

TOP CHORD Sheathed.
BOT CHORD Rigid ceiling directly applied or 2-10-1 oc bracing.
WEBS 1 Row at midpt 4-19, 6-17, 3-20

REACTIONS.

(size) 2=0-3-8, 15=0-3-8
Max Horz 2=201(LC 10)
Max Uplift 2=-230(LC 10), 15=-269(LC 7)
Max Grav 2=1613(LC 2), 15=2445(LC 2)

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

TOP CHORD 2-3=-7080/1162, 3-4=-3616/529, 4-6=-2492/372, 6-7=-1494/263, 7-8=-1486/281,
8-10=-1043/181, 10-12=-613/857
BOT CHORD 2-21=-1242/6525, 20-21=-1129/5826, 19-20=-565/3317, 17-19=-310/2232, 16-17=-56/902,
15-16=-659/586, 14-15=-2379/791, 10-14=-2229/621, 12-14=-678/588
WEBS 4-20=0/535, 4-19=-1203/283, 6-19=-31/810, 6-17=-1256/297, 7-17=-90/753,
8-17=-171/537, 8-16=-928/311, 10-16=-422/1918, 3-21=-303/2065, 3-20=-2531/568

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 19-9-10, Exterior(2R) 19-9-10 to 25-9-10, Interior(1) 25-9-10 to 39-10-8, Exterior(2E) 39-10-8 to 42-10-8 zone; cantilever left and right exposed; 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
- 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.
- Bearing at joint(s) 2, 15 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) 2=230, 15=269.
- 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.



April 14, 2023

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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	Roof - Osage 70	
P230177-01	C2	Hip	1	1		I57761089

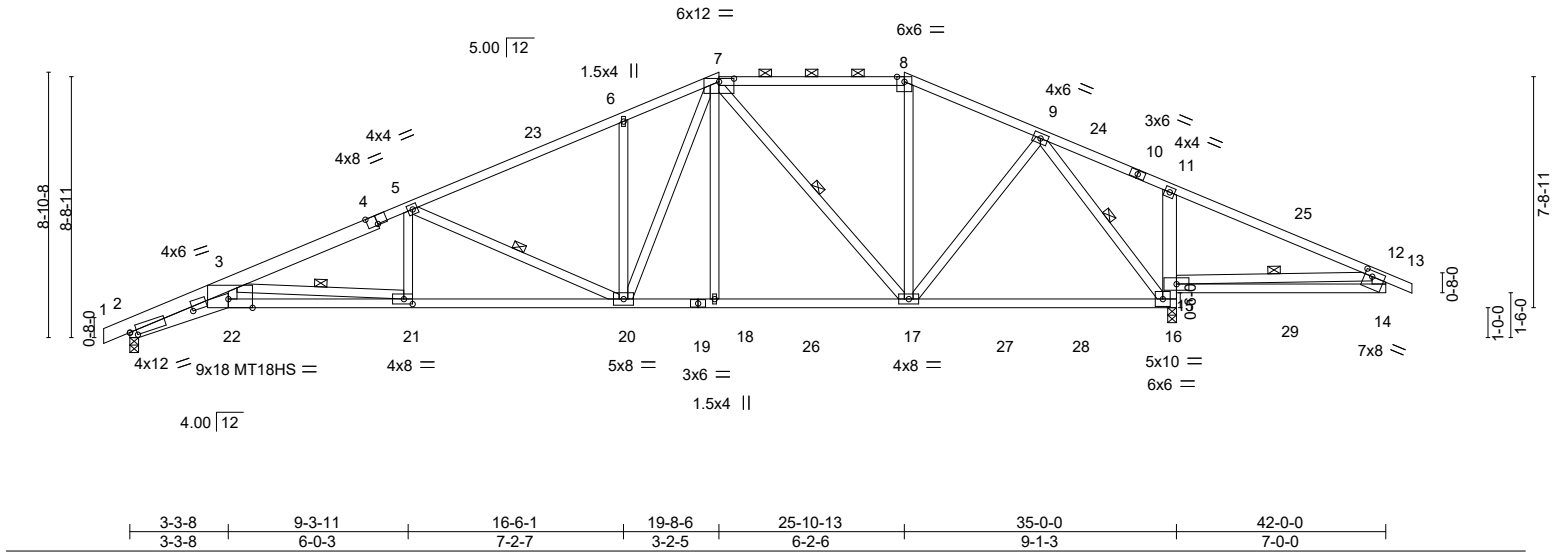
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:53 2023 Page 1

ID: tNc0JE71cPCqdlj6CNUlZ0oS8-YmFOF3ldxe8VglxoTV9agCNhOpmrUsqI4Ag4uhzR8YK

0-10-8 9-3-11 16-6-1 19-4-14 19-8-6 25-10-13 30-5-6 35-0-0 42-0-0 42-10-8
0-10-8 9-3-11 7-2-7 2-10-13 0-3-8 6-2-6 4-6-10 4-6-10 7-0-0 0-10-8

Scale = 1:77.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.34 21-22 >999 240	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.59 21-22 >703 180	MT18HS		197/144	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.26 16 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							
								Weight: 236 lb FT = 20%			

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-7: 2x4 SP 1650F 1.5E, 1-4: 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP 1650F 1.5E *Except*
2-22: 2x6 SP 2400F 2.0E, 19-22: 2x4 SP 2400F 2.0E
11-16: 2x6 SPF No.2, 14-15: 2x4 SP No.2
WEBS 2x4 SPF No.3 *Except*
12-14: 2x6 SPF No.2

REACTIONS.

(size) 2=0-3-8, 16=0-3-8
Max Horz 2=175(LC 10)
Max Uplift 2=215(LC 10), 16=323(LC 7)
Max Grav 2=1605(LC 2), 16=2452(LC 2)

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

TOP CHORD 2-3=-6461/924, 3-5=-3602/462, 5-6=-2363/312, 6-7=-2296/401, 7-8=-1221/194,
8-9=-1365/191, 9-11=-519/781, 11-12=-623/868
BOT CHORD 2-22=-982/5879, 21-22=-878/5173, 20-21=-481/3325, 18-20=-115/1683, 17-18=-115/1680,
16-17=-21/682, 15-16=-592/387, 11-15=-437/196, 14-15=-221/365
WEBS 3-22=-249/1948, 5-21=0/493, 5-20=-1345/289, 6-20=-324/199, 7-20=-264/1062,
3-21=-1860/399, 7-17=-724/166, 9-17=-176/918, 9-16=-2160/575, 12-15=-1077/878

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; Ke=0.96; Cat. II; Exp C;
Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-10-8 to 3-5-4, Interior(1) 3-5-4 to 13-9-2, Exterior(2R) 13-9-2 to 31-10-1, Interior(1) 31-10-1 to 38-8-2, Exterior(2E) 38-8-2 to 42-10-8 zone; cantilever left and right exposed; 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
- 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.
- Bearing at joint(s) 2 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) 2=215, 16=323.
- 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.

BRACING-

TOP CHORD Sheathed or 2-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-6 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-10-14 oc bracing: 21-22
6-0-0 oc bracing: 15-16.
WEBS 1 Row at midpt 5-20, 3-21, 7-17, 9-16, 12-15



April 14, 2023

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

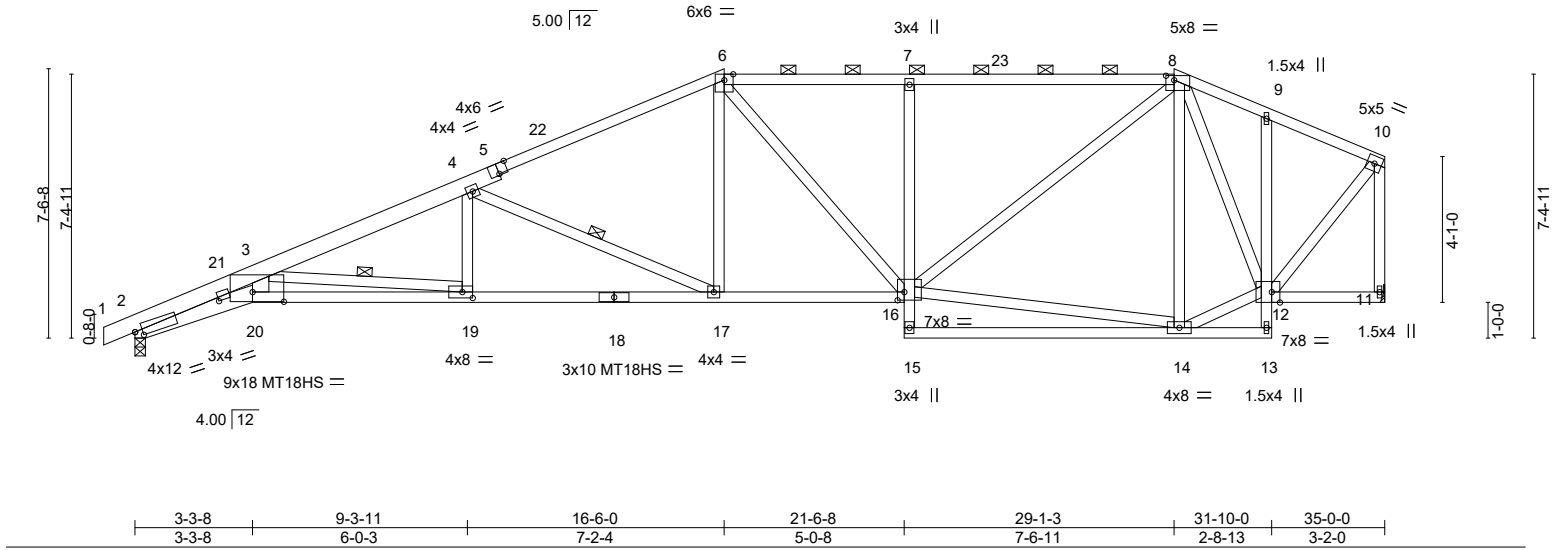
Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761090
P230177-01	C3	Hip	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:55 2023 Page 1
ID:tnC0JE71cPCqdLj6CNUlZ0oS8-U8M84IKISFOCw35BavC2ldT26cS5yq92XT9AyZzR8YI

-0-10-8	3-3-8	9-3-11	16-6-0	29-1-3	31-10-0	35-0-0
0-10-8	3-3-8	6-0-3	7-2-4	12-7-3	2-8-13	3-2-0

Scale: 3/16"=1'



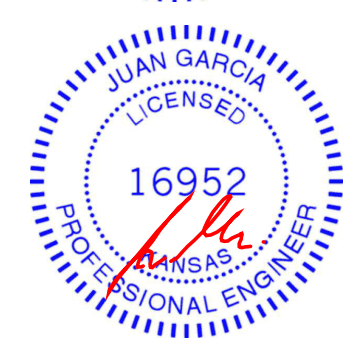
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.76	Vert(LL) -0.33 19-20 >999 240	MT18HS	197/144
BCLL 0.0 *	Lumber DOL 1.15	WB 0.61	Vert(CT) -0.59 19-20 >703 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.28 11 n/a n/a		
	Code IRC2018/TPI2014			Weight: 220 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E *Except*	TOP CHORD Sheathed or 3-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-13 max.): 6-8.
6-8: 2x4 SP 1650F 1.5E, 8-10: 2x4 SP No.2, 1-5: 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
BOT CHORD 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 3-19, 4-17
2-20: 2x6 SP 2400F 2.0E, 18-20: 2x4 SP 2400F 2.0E	
7-15: 2x4 SP No.3, 16-18: 2x4 SP 1650F 1.5E	
WEBS 2x4 SP No.3 *Except*	
3-20: 2x6 SP No.2, 10-11: 2x4 SP No.2	

REACTIONS.	(size) 2=0-3-8, 11=Mechanical
Max Horz 2=184(LC 7)	
Max Uplift 2=193(LC 10), 11=170(LC 7)	
Max Grav 2=1634(LC 1), 11=1561(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-6842/871, 3-4=-3660/427, 4-6=-2524/367, 6-7=-2135/388, 7-8=-2137/391, 8-9=-948/249, 9-10=-988/214, 10-11=-1516/227
BOT CHORD	2-20=-926/6247, 19-20=-803/5314, 17-19=-388/3370, 16-17=-270/2221, 7-16=-554/205
WEBS	3-20=-241/2037, 3-19=-1959/418, 4-19=0/456, 4-17=-1242/281, 6-17=-25/650, 14-16=-175/981, 8-16=-199/1392, 8-14=-413/165, 12-14=-131/1117, 8-12=-582/63, 10-12=-159/1353

- 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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-7-8, Interior(1) 2-7-8 to 11-6-10, Exterior(2R) 11-6-10 to 21-8-4, Interior(1) 21-8-4 to 24-1-13, Exterior(2R) 24-1-13 to 31-4-4, Exterior(2E) 31-4-4 to 34-10-4 zone; cantilever left and right exposed; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 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) 2=193, 11=170.
 - 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.



April 14, 2023

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

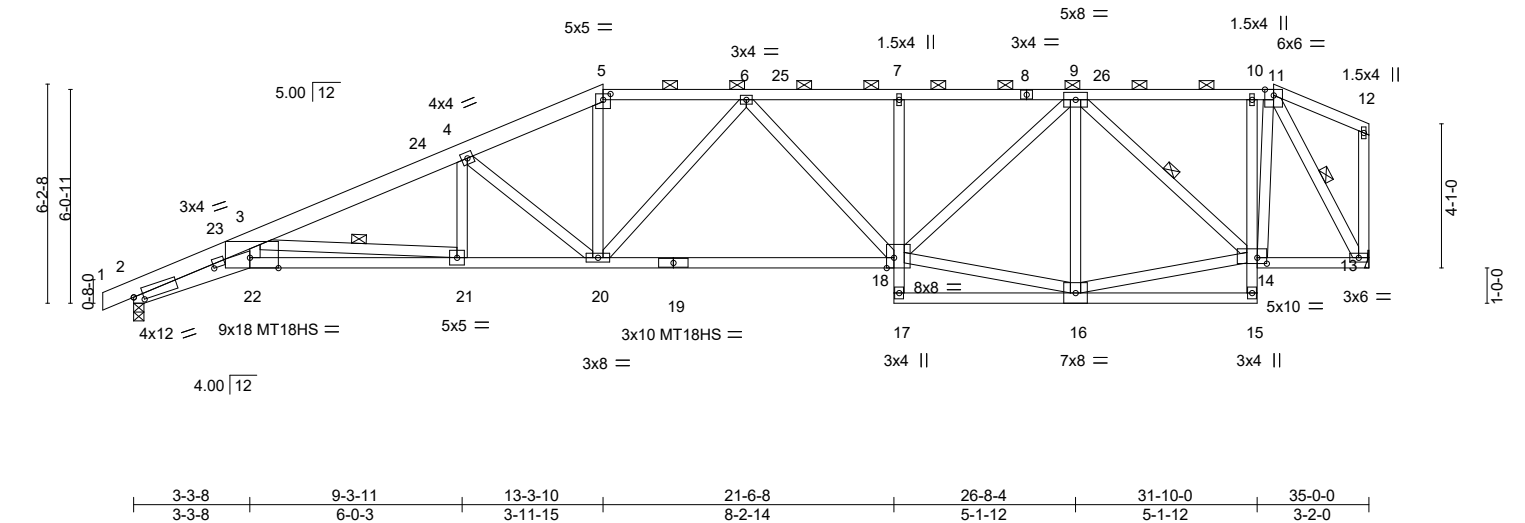
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the design parameters and properly incorporate this design into the overall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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761091
P230177-01	C4	Hip	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS),		Spring Hills, KS - 66083,		8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:57 2023 Page 1					
ID:tc0JE71cPCqdlj6CNUiZ0oS8-RXUuVQM8_sew9MFZiKEWr2YRJQ5KQfzL?neH1SzR8YG									
-0-10-8	9-3-11	13-3-10	17-4-5	21-6-8	26-8-4	31-10-0	32-3-10	35-0-0	
0-10-8	9-3-11	3-11-15	4-0-11	4-2-3	5-1-12	5-1-12	0-5-10	2-8-6	

Scale = 1:65.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.32	21-22	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.64	18-20	>654	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85	Horz(CT)	0.29	13	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH						
								Weight: 221 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-5: 2x6 SP 2400F 2.0E	TOP CHORD Sheathed or 3-5-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-0 max.): 5-11.
BOT CHORD 2x4 SP No.2 *Except* 2-22: 2x6 SP 2400F 2.0E, 19-22: 2x4 SP 2400F 2.0E 7-17: 2x4 SPF No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 9-10-4 oc bracing: 21-22 8-6-11 oc bracing: 18-20.
WEBS 2x4 SPF No.3 *Except* 12-13: 2x4 SP No.2	WEBS 1 Row at midpt 9-14, 11-13, 3-21

REACTIONS. (size) 2=0-3-8, 13=Mechanical
Max Horz 2=187(LC 7)
Max Uplift 2=175(LC 6), 13=219(LC 7)
Max Grav 2=1634(LC 1), 13=1561(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=6553/688, 3-4=3778/457, 4-5=3037/399, 5-6=2696/376, 6-7=2707/438,
7-9=2690/439, 9-10=943/208, 10-11=939/206
BOT CHORD 2-22=794/5948, 21-22=715/5248, 20-21=486/3500, 18-20=460/2843, 7-18=311/123,
13-14=151/775
WEBS 3-22=178/1925, 5-20=82/969, 6-20=387/129, 16-18=260/1692, 9-18=196/1325,
14-16=285/1661, 9-14=1103/169, 11-14=208/1312, 11-13=1614/252, 4-20=1003/249,
4-21=6/287, 3-21=1760/332, 9-16=560/179

- 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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-7-8, Interior(1) 2-7-8 to 8-4-3, Exterior(2R) 8-4-3 to 18-3-0, Interior(1) 18-3-0 to 27-4-3, Exterior(2R) 27-4-3 to 32-3-10, Exterior(2E) 32-3-10 to 34-10-4 zone; cantilever left and right exposed ; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 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) 2=175, 13=219.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

Continued on page 2 and ANSI/TPI 1.



April 14,2023

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p> <p>Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component</p> <p>MiTek</p> <p>16023 Swingley Ridge Rd Chesterfield, MO 63017</p>
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Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761091
P230177-01	C4	Hip	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,


8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:35:57 2023 Page 2
ID:tNc0JE71cPCqdlj6CNuNizOoS8-RXUuVQM8_sew9MFZiKEWr2YRJQ5KQfzL?neH1SzR8YG

NOTES-
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

 **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	Roof - Osage 70
P230177-01	C5	Half Hip Girder	1	2	Job Reference (optional)

I57761092

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:02 2023 Page 2
ID:tNc0JE71cPCqdLlj6CNuNlzOoS8-nUlnY8PGpPHDG87XUuqhY6FEXRrx5wr483M2ifzR8YB

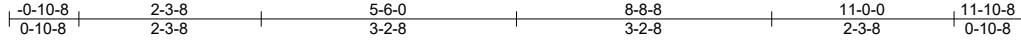
- NOTES-**
- 10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=920, 2=777.
 - 12) 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.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 9-0-0 from the left end to connect truss(es) to back face of bottom chord.
 - 15) Fill all nail holes where hanger is in contact with lumber.
 - 16) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-4=-70, 4-10=-70, 2-21=-20, 17-21=-20, 15-16=-20, 13-14=-20, 11-12=-20
 - Concentrated Loads (lb)
 - Vert: 6=-76(B) 21=-61(B) 19=-85(B) 17=-85(B) 7=-76(B) 22=-122(B) 24=-76(B) 25=-76(B) 26=-76(B) 27=-76(B) 28=-81(B) 29=-109(B) 30=-109(B) 31=-109(B) 32=-109(B) 33=-89(B) 34=-5(B) 35=-167(B) 36=-228(B) 37=-85(B) 38=-85(B) 39=-85(B) 40=-85(B) 41=-117(B) 42=-52(B) 43=-52(B) 44=-52(B) 45=-52(B) 46=-73(B)

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761093
P230177-01	D1	ROOF SPECIAL	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:04 2023 Page 1
ID:tNc0JE71cPCqdlj6CNuNizOoS8-jtPYzqRXL0XxVRHvclsAdXKbRFVgZ_oNcNr9nYzR8Y9



4x6 ||

Scale = 1:29.0

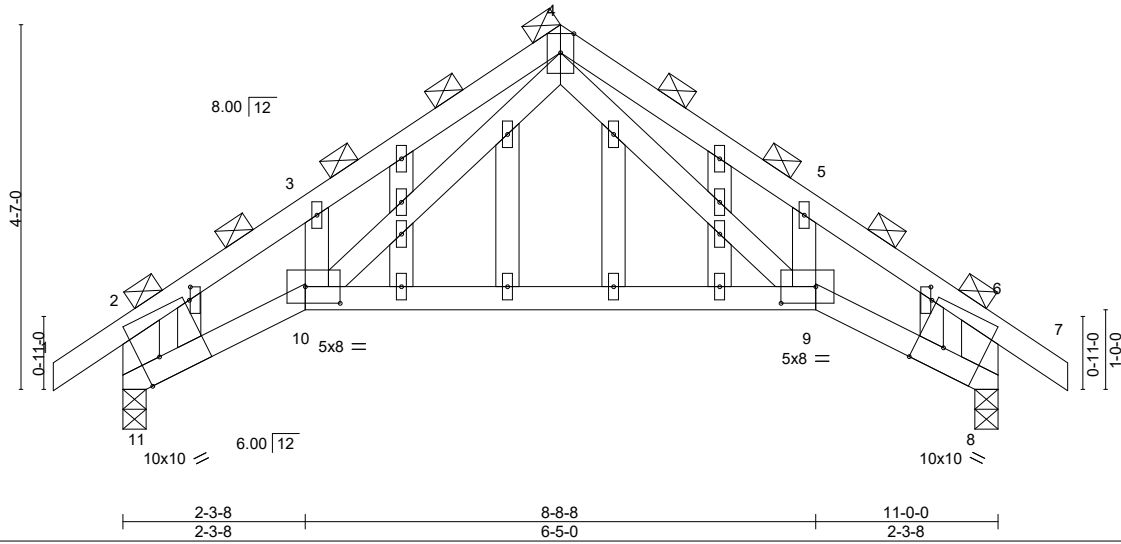


Plate Offsets (X,Y)-- [8:0-4-0,Edge], [9:0-5-4,0-2-8], [10:0-5-4,0-2-8], [11:0-2-14,Edge], [13:0-2-0,0-0-2], [25:0-2-0,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.86	Vert(LL) -0.14	9-10	>885	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.86	Vert(CT) -0.33	9-10	>380	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.20	Horz(CT) 0.16	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH					Weight: 65 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3 *Except*
2-11,6-8: 2x6 SPF No.2
OTHERS 2x4 SPF No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (4-8-4 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 11=0-3-8, 8=0-3-8
Max Horz 11=203(LC 9)
Max Uplift 11=-104(LC 10), 8=-104(LC 11)
Max Grav 11=828(LC 1), 8=828(LC 1)

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

TOP CHORD 2-3=-1255/127, 3-4=-1049/294, 4-5=-1022/318, 5-6=-1255/143, 2-11=-1097/202,
6-8=-1097/210
BOT CHORD 10-11=-110/1033, 9-10=0/566, 8-9=0/909
WEBS 4-9=-160/470, 4-10=-194/545

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-5-4, Exterior(2R) 2-5-4 to 8-6-12, Interior(1) 8-6-12 to 8-10-8, Exterior(2E) 8-10-8 to 11-10-8 zone; cantilever left and right exposed; 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
- 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 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 11, 8 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) 11=104, 8=104.
- 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.



April 14, 2023

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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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761094
P230177-01	D2	Roof Special	3	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:06 2023 Page 1
ID: tNc0JE71cPCqdlj6CNuNlzOoS8-gGXIOVSntdnfklRljjeiYQxB2CJ1vDf3hKGrRzR8Y7

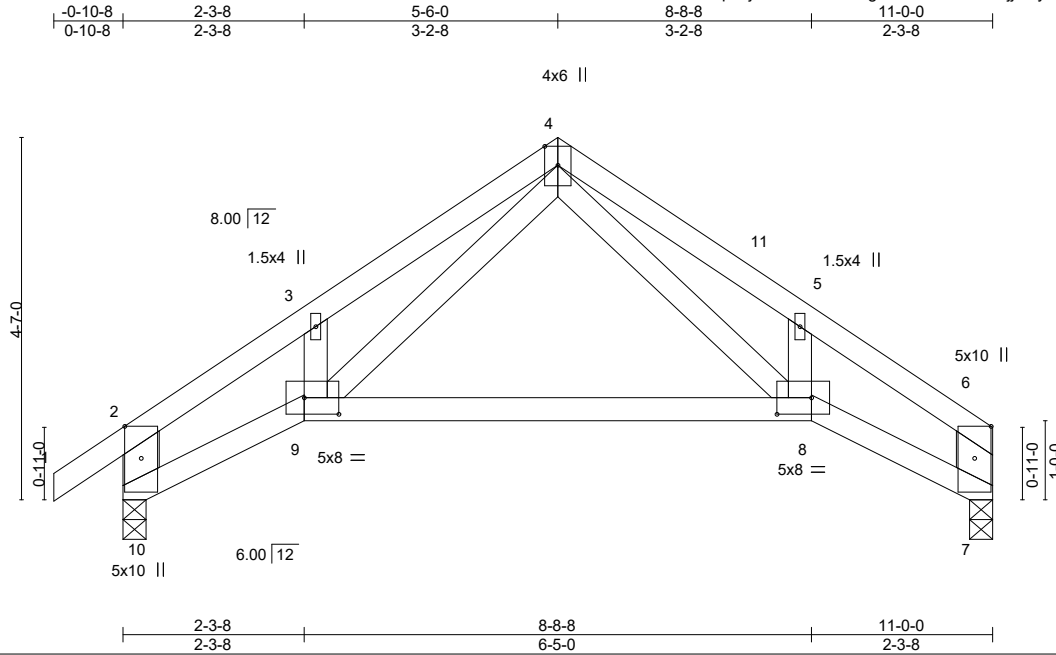


Plate Offsets (X,Y)-- [8:0-5-4,0-2-8], [9:0-5-4,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.10	8-9	>999	240		MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(CT) -0.24	8-9	>528	180			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.15	Horz(CT) 0.12	7	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH						Weight: 53 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3 *Except*
2-10,6-7: 2x6 SPF No.2

REACTIONS.

(size) 10=0-3-8, 7=0-3-8
Max Horz 10=129(LC 7)
Max Uplift 10=-69(LC 10), 7=-45(LC 11)
Max Grav 10=556(LC 1), 7=470(LC 1)

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

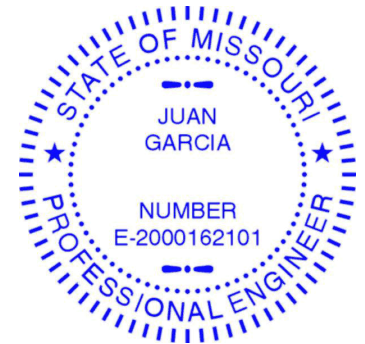
TOP CHORD 2-3=-846/131, 3-4=-702/233, 4-5=-702/254, 5-6=-828/144, 2-10=-736/170,
6-7=-621/114
BOT CHORD 9-10=-96/676, 8-9=-8/368, 7-8=-49/606
WEBS 4-8=-120/332, 4-9=-136/366

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-5-4, Exterior(2R) 2-5-4 to 7-9-4, Exterior(2E) 7-9-4 to 10-9-4 zone; cantilever left and right exposed; 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
- 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) 10, 7 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) 10, 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.

BRACING-

TOP CHORD Sheathed or 4-8-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.



April 14, 2023

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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	Roof - Osage 70	I57761095
P230177-01	D3	Half Hip Girder	1	2	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:07 2023 Page 1
ID:tNc0JE71cPCqDLj6CNuNlzOoS8-8S5gbrTPexvVMv0UHRQtF9y6wSVBmAvpL3pOtzR8Y6

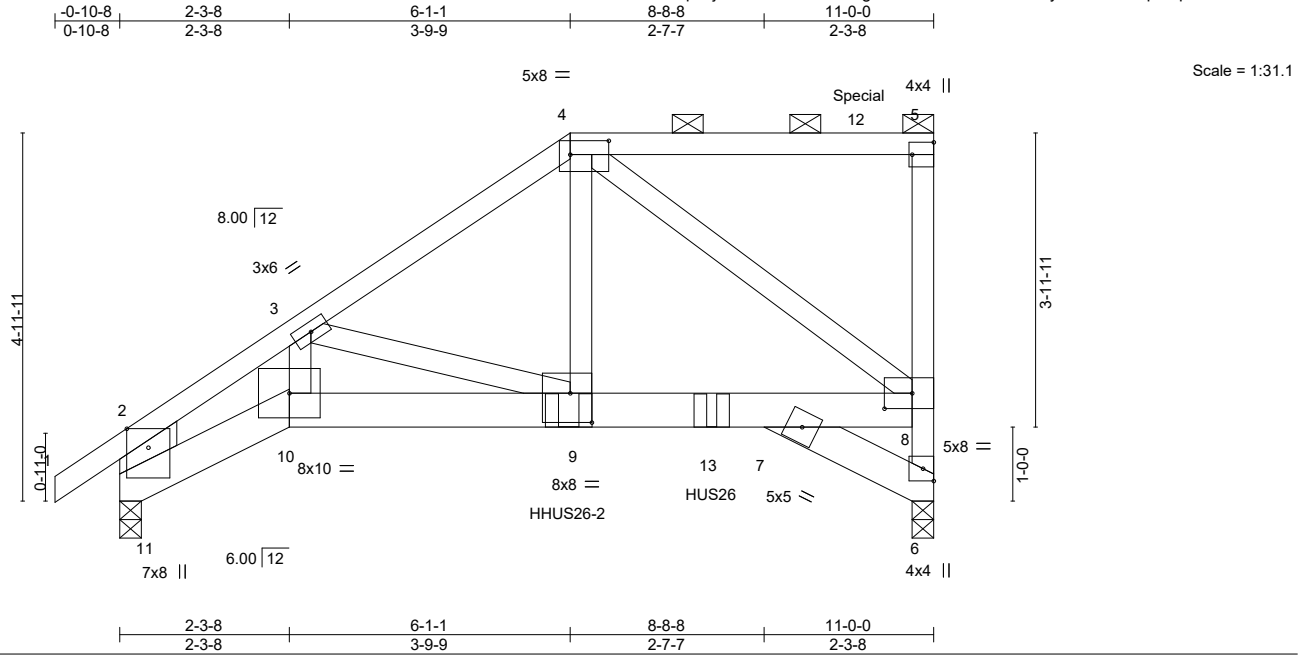


Plate Offsets (X,Y)-- [4:0-6-4,0-2-4], [5:Edge,0-3-8], [8:0-4-8,0-2-8], [9:0-3-8,0-4-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.06	7-9	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.93	Vert(CT) -0.11	7-9	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.95	Horz(CT) 0.10	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH					Weight: 140 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SPF No.2 *Except*
10-11: 2x6 SP 2400F 2.0E
WEBS 2x4 SPF No.3 *Except*
5-6: 2x4 SP No.2, 2-11: 2x10 SP 2400F 2.0E

BRACING-

TOP CHORD Sheathed or 4-8-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-3-8, 11=0-3-8
Max Horz 11=190(LC 24)
Max Uplift 6=932(LC 5), 11=575(LC 8)
Max Grav 6=4630(LC 1), 11=2426(LC 1)

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

TOP CHORD 2-3=-4129/1047, 3-4=-4210/1033, 6-8=-4454/923, 5-8=-1425/191, 2-11=-2700/687
BOT CHORD 10-11=-935/3028, 9-10=-949/3215, 7-9=-984/3671, 7-8=-987/3681
WEBS 3-9=-305/353, 4-9=-1127/4293, 4-8=-4334/1128

NOTES-

- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-2-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 9-4 2x4 - 1 row at 0-4-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; 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.
- Bearing at joint(s) 6, 11 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 (it=lb) 6=932, 11=575.
- 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.
- Use Simpson Strong-Tie HHUS26-2 (14-SD10212 Girder, 6-SD10212 Truss) or equivalent at 6-0-13 from the left end to connect truss(es) to front face of bottom chord.

Continued on page 2



April 14, 2023

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	Roof - Osage 70
P230177-01	D3	Half Hip Girder	1	2	I57761095

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:07 2023 Page 2
ID:tNc0JE71cPCqdLj6CNuNlzOoS8-8S5gbrTPexvVMv0UHRQtF9y6wSVBmAvpL3pOtzR8Y6

- NOTES-**
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 8-0-0 from the left end to connect truss(es) to front face of bottom chord.
 - 13) Fill all nail holes where hanger is in contact with lumber.
 - 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1496 lb down and 178 lb up at 10-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 10-11=-20, 7-10=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 9=-2988(F) 12=-1496(F) 13=-1541(F)

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761096
P230177-01	E1	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:09 2023 Page 1
ID:tNc0JE71cPCqdlj6CNuNizOoS8-4rDR0XVf9Y9DbCAfPSLKa2cqGOTEHV6ifYwSlzR8Y4

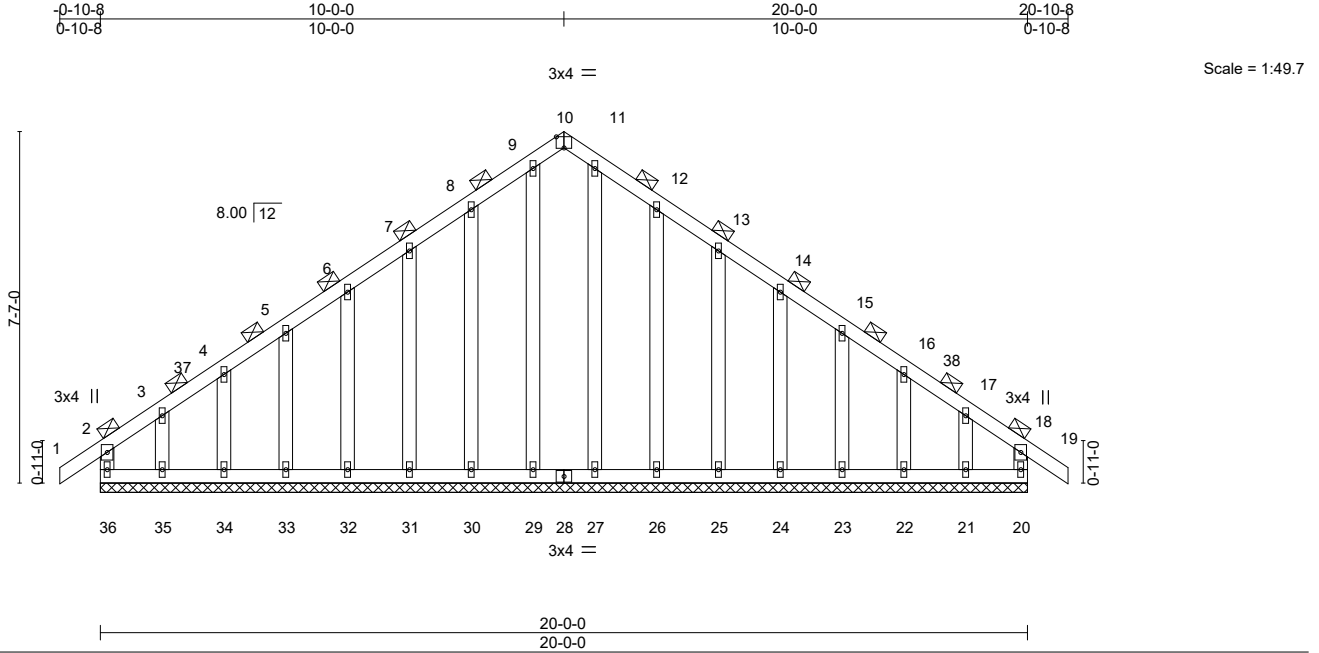


Plate Offsets (X,Y)-- [10:0-2-0,Edge]									
LOADING (psf)	SPACING-	3-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.00	19	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.01	19	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.11	Horz(CT)	0.01	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 133 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
18-20: 2x4 SPF No.3
OTHERS 2x4 SPF No.3

REACTIONS.

All bearings 20-0-0.
(lb) - Max Horz 36=-312(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 10, 34, 33, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22 except
36=-179(LC 6), 20=-103(LC 7), 35=-170(LC 10), 21=-146(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 20, 34, 33, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21 except
36=296(LC 18), 10=323(LC 11), 35=258(LC 17)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-113/277, 7-8=-143/343, 8-9=-180/413, 9-10=-189/446, 10-11=-189/446,
11-12=-180/413, 12-13=-143/343, 13-14=-108/277

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 7-0-0, Corner(3R) 7-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 17-10-8, Corner(3E) 17-10-8 to 20-10-8 zone; cantilever left and right exposed; 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
- 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 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 34, 33, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22 except (jt=lb) 36=179, 20=103, 35=170, 21=146.
- 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.



April 14, 2023

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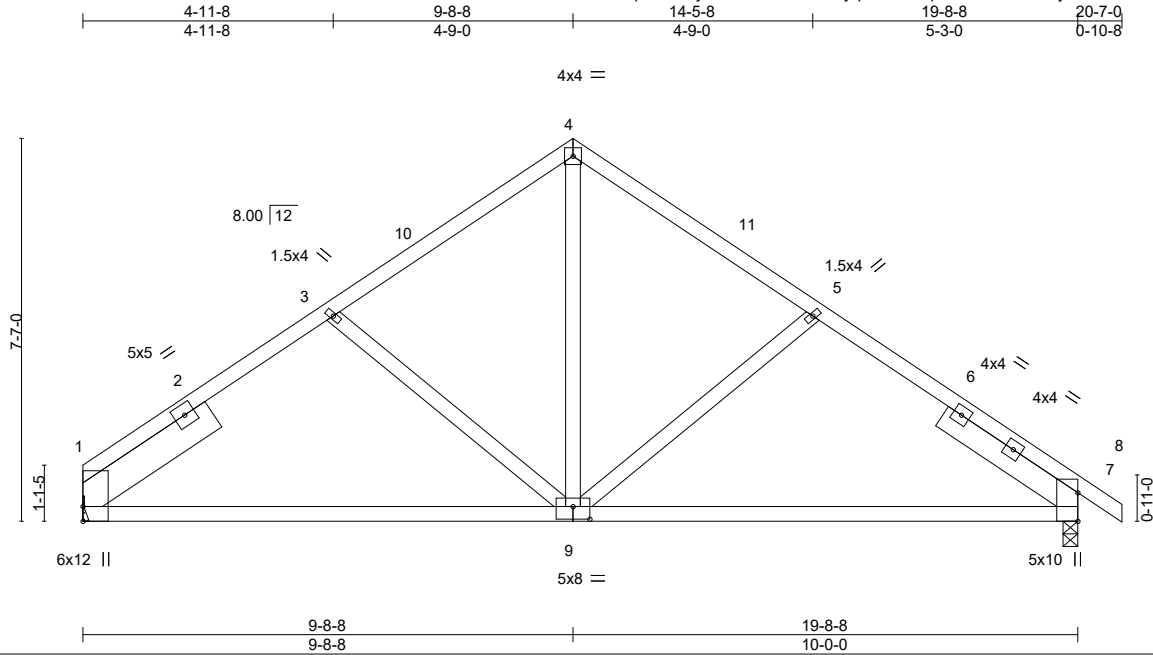


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761097
P230177-01	E2	Common	3	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:10 2023 Page 1
ID:pvsTczJyzn?BASLJV8h5Xyqs8A-Y1mpDtWlwsH4DMI3yZzasoi0fZwziUF_JIT_CzR8Y3



Scale = 1:45.6

Plate Offsets (X,Y)-- [9:0-4-0,0-3-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.26	7-9	>908	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.53	7-9	>449	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.26	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH						Weight: 102 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 1650F 1.5E
WEBS 2x4 SPF No.3
SLIDER Left 2x8 SPF No.2 3-1-15, Right 2x6 SPF No.2 3-2-12

REACTIONS.

(size) 1=Mechanical, 7=0-3-8
Max Horz 1=183(LC 7)
Max Uplift 1=-85(LC 10), 7=-107(LC 11)
Max Grav 1=886(LC 1), 7=949(LC 1)

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

TOP CHORD 1-3=-1106/185, 3-4=-831/182, 4-5=-834/182, 5-7=-1121/186
BOT CHORD 1-9=-141/817, 7-9=-58/830
WEBS 5-9=-318/188, 3-9=-283/182, 4-9=-67/486

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-8-8, Exterior(2R) 6-8-8 to 12-8-8, Interior(1) 12-8-8 to 17-7-0, Exterior(2E) 17-7-0 to 20-7-0 zone; cantilever left and right exposed; 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
- 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) 1 except (jt=lb) 7=107.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 14, 2023

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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	Roof - Osage 70	I57761098
P230177-01	E3	COMMON	8	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:12 2023 Page 1
ID:pvsTczJyzn?BASLJVV8h5Xyqs8A-UQuZeZXYSTXoSguS4_?2yDg2LTEORbwYSdna34zR8Y1

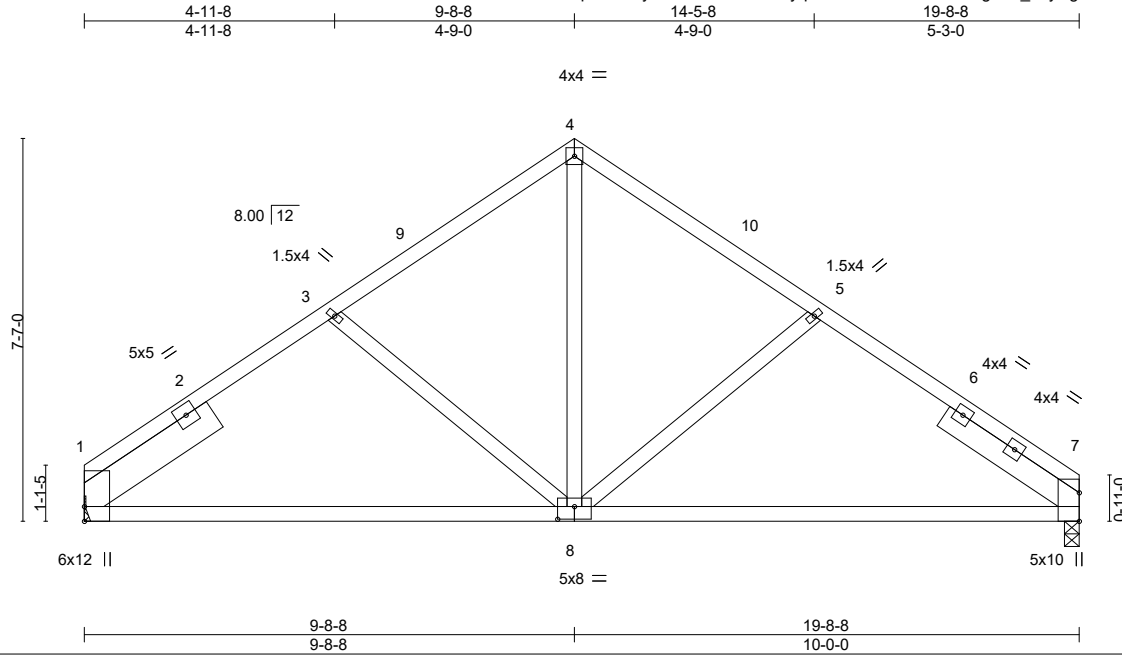


Plate Offsets (X,Y)-- [8:0-4:0,0-3:0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.26	7-8	>908	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.53	7-8	>448	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.26	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH						Weight: 100 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 1650F 1.5E
WEBS 2x4 SPF No.3
SLIDER Left 2x8 SPF No.2 3-1-15, Right 2x6 SPF No.2 3-2-12

REACTIONS.

(size) 1=Mechanical, 7=0-3-8
Max Horz 1=-183(LC 8)
Max Uplift 1=-85(LC 10), 7=-88(LC 11)
Max Grav 1=887(LC 1), 7=887(LC 1)

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

TOP CHORD 1-3=-1108/186, 3-4=-833/183, 4-5=-837/184, 5-7=-1128/188
BOT CHORD 1-8=-141/818, 7-8=-60/836
WEBS 5-8=-323/190, 3-8=-283/182, 4-8=-69/489

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-8-8, Exterior(2R) 6-8-8 to 12-8-8, Interior(1) 12-8-8 to 16-8-8, Exterior(2E) 16-8-8 to 19-8-8 zone; cantilever left and right exposed; 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
- 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) 1, 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.



April 14, 2023

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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	Roof - Osage 70	I57761102
P230177-01	G4	Common Girder	1	2	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:19 2023 Page 2
ID:tNc0JE71cPCqdLlj6CNuNlzOoS8-nmpD6ydxpdQoolxo_ydhkhSFilhmag1a3CzSoAzR8Xw

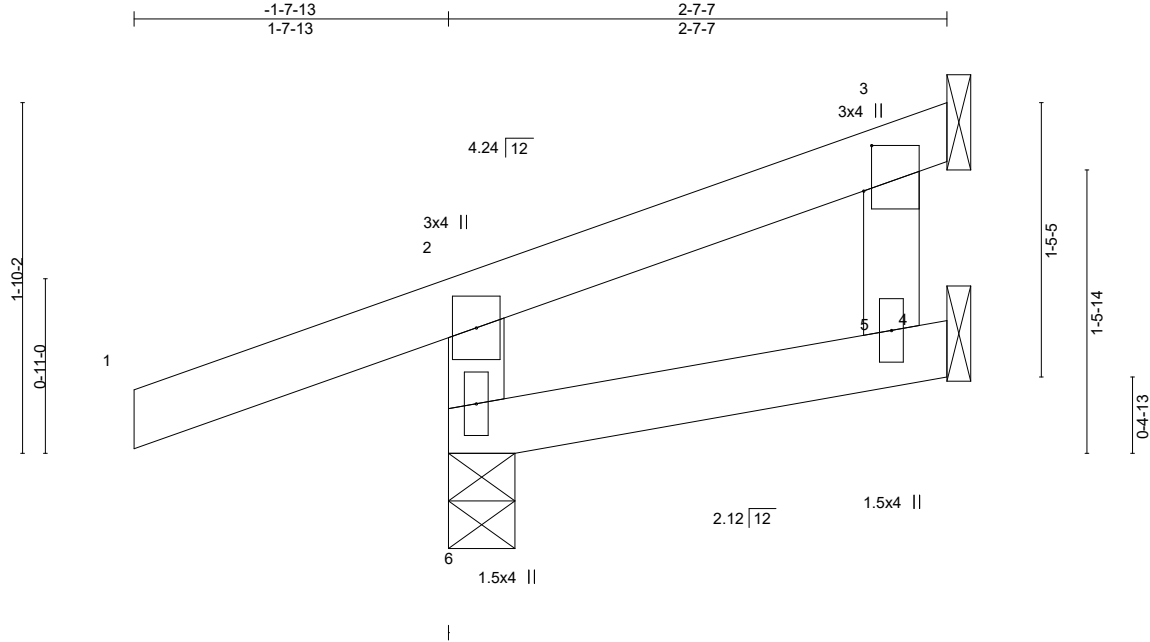
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-3=-70, 3-5=-70, 1-5=-20
- Concentrated Loads (lb)
- Vert: 1=-157(B) 5=-876(B) 8=-867(B) 10=-868(B) 11=-867(B) 12=-867(B) 13=-867(B) 14=-867(B) 15=-867(B) 16=-867(B) 17=-866(B) 18=-866(B)

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	157761103
P230177-01	J1	Jack-Open	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:20 2023 Page 1
ID:tNc0JE71cPCqdLlj6CNuNizOoS8-FyNbKIdZawYfQvW_Yf8wGv?SOH8hJGMjHsj?KdzR8Xv



Scale: 1"=1'

Plate Offsets (X,Y)-- [3:0-2-14,0-0-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	2-0-0	TC 0.35	Vert(LL)	0.00	6	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00	5	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.04	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x4 SPF No.3

BRACING-

TOP CHORD Sheathed or 2-7-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 6=0-4-3, 3=Mechanical, 4=Mechanical
Max Horz 6=52(LC 6)
Max Uplift 6=-102(LC 6), 3=-13(LC 10), 4=-41(LC 3)
Max Grav 6=277(LC 1), 3=106(LC 3), 4=13(LC 1)

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

TOP CHORD 2-6=-240/303

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 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) 3, 4 except (jt=lb) 6=102.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



April 14, 2023

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761104
P230177-01	J2	Jack-Open	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:30 2023 Page 1
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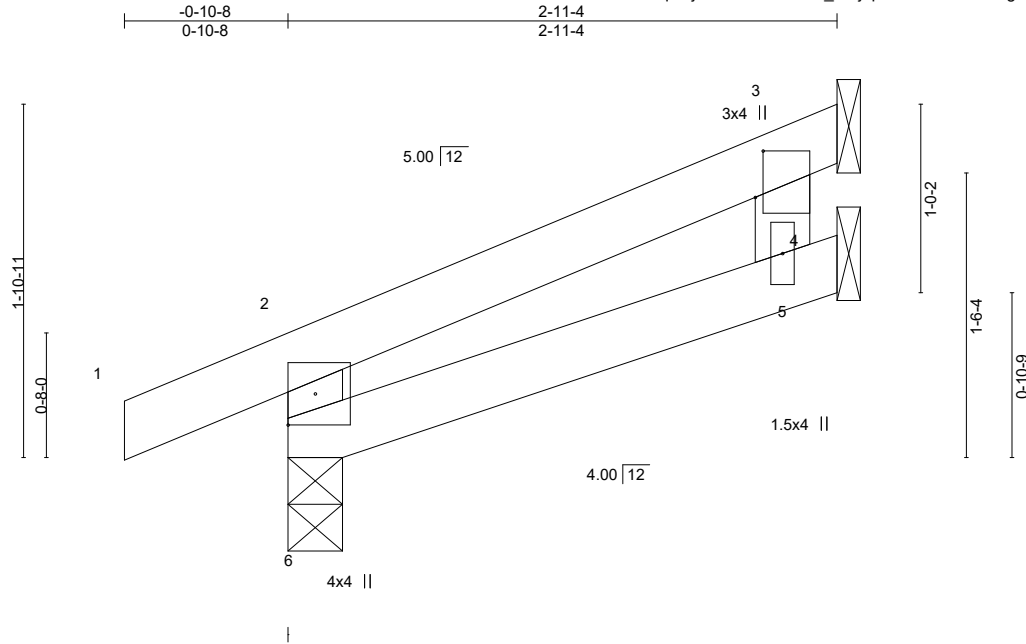


Plate Offsets (X,Y)-- [3:0-3-0,0-0-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	5-6	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-5: 2x4 SPF No.3

BRACING-

TOP CHORD Sheathed or 2-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 6=0-3-8, 4=Mechanical, 3=Mechanical
Max Horz 6=49(LC 10)
Max Uplift 6=-30(LC 6), 4=-89(LC 3), 3=-36(LC 10)
Max Grav 6=193(LC 1), 4=6(LC 10), 3=178(LC 3)

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



April 14, 2023

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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



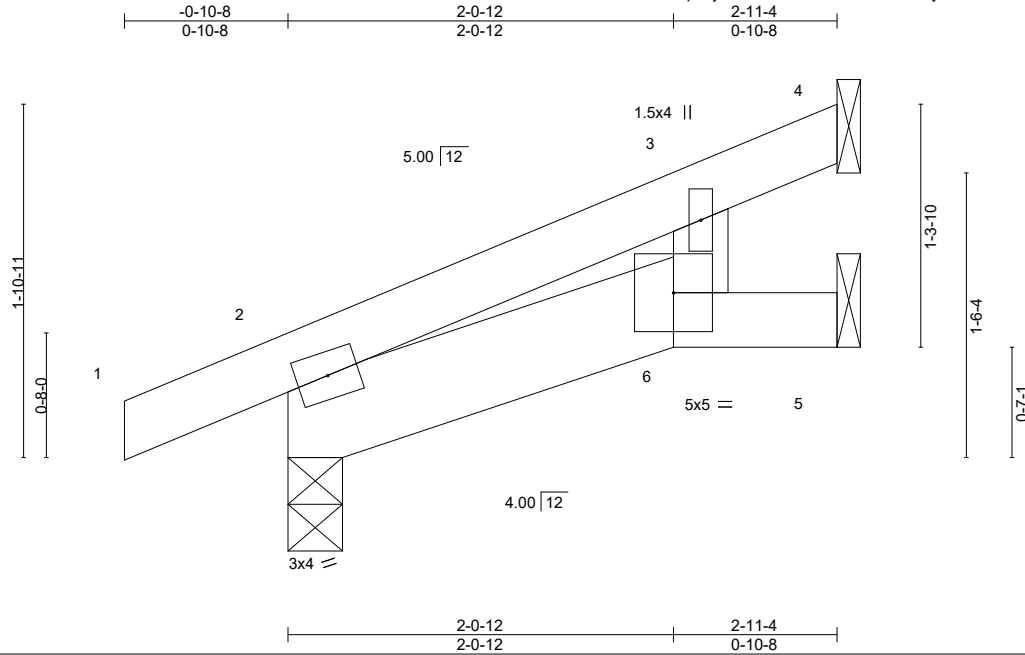
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761105
P230177-01	J3	Jack-Open	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:32 2023 Page 1
ID:tNc0JE71cPCqdLlj6CNuNizOoS8-vG67rOn5lc3yslQIFBmklRVYSXC_7iXU2kdelwzR8Xj



Scale = 1:12.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) 0.01	6	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.01	6	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Sheathed or 2-11-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=61(LC 10)
Max Uplift 4=-38(LC 10), 2=-31(LC 10)
Max Grav 4=101(LC 1), 2=208(LC 1), 5=16(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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; 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) 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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.



April 14, 2023

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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

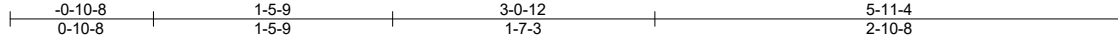


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761106
P230177-01	J4	Half Hip Girder	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:33 2023 Page 1
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Scale = 1:14.1

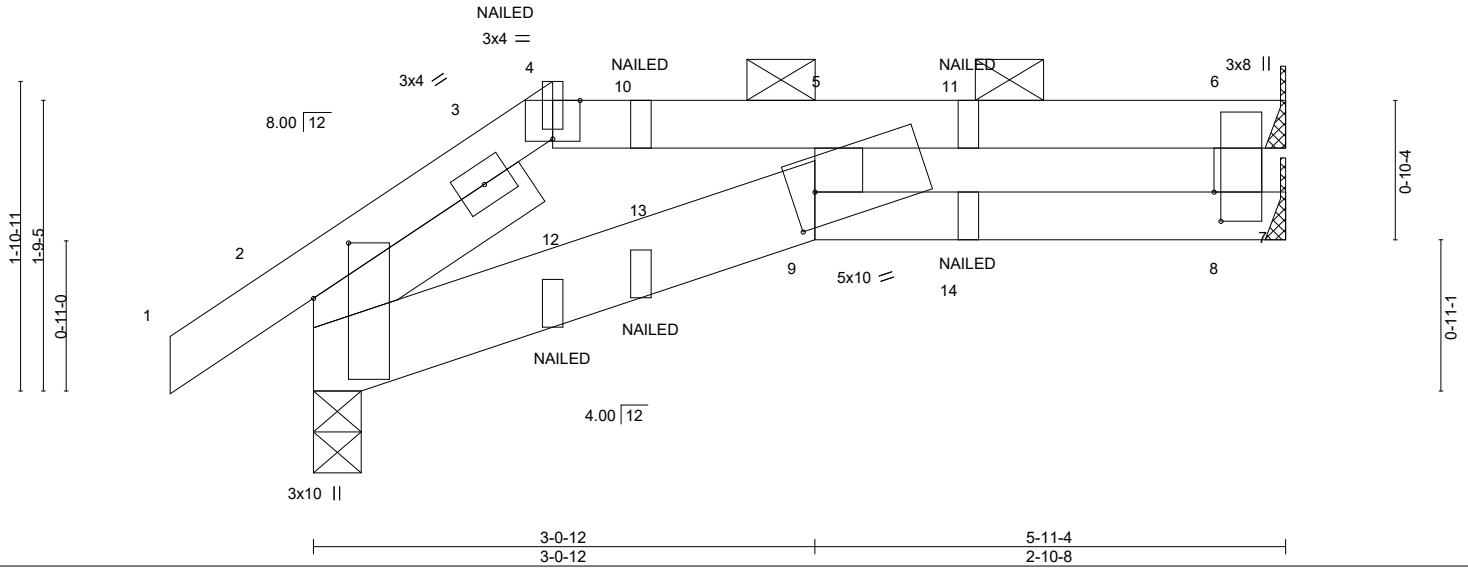


Plate Offsets (X,Y)-- [2:0-4-1,0-2-9], [4:0-2-0,Edge], [6:0-2-2,0-0-8], [9:0-1-12,0-2-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	0.08	9	>838	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.12	9	>544	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.09	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH						Weight: 24 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-9: 2x6 SPF No.2
WEBS 2x4 SPF No.3
SLIDER Left 2x4 SP No.2 1-7-4

BRACING-

TOP CHORD Sheathed or 5-11-4 oc purlins, except
2-0-0 oc purlins: 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=Mechanical, 8=Mechanical
Max Horz 2=58(LC 8)
Max Uplift 2=101(LC 8), 6=71(LC 5), 8=26(LC 5)
Max Grav 2=334(LC 25), 6=192(LC 22), 8=107(LC 3)

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; Ke=0.96; 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.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8 except (jt=lb) 2=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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- "NAILED" indicates 3-10d skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
- 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: 1-4=-70, 4-6=-70, 2-9=-20, 7-9=-20



April 14, 2023

Continued on page 2

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761106
P230177-01	J4	Half Hip Girder	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

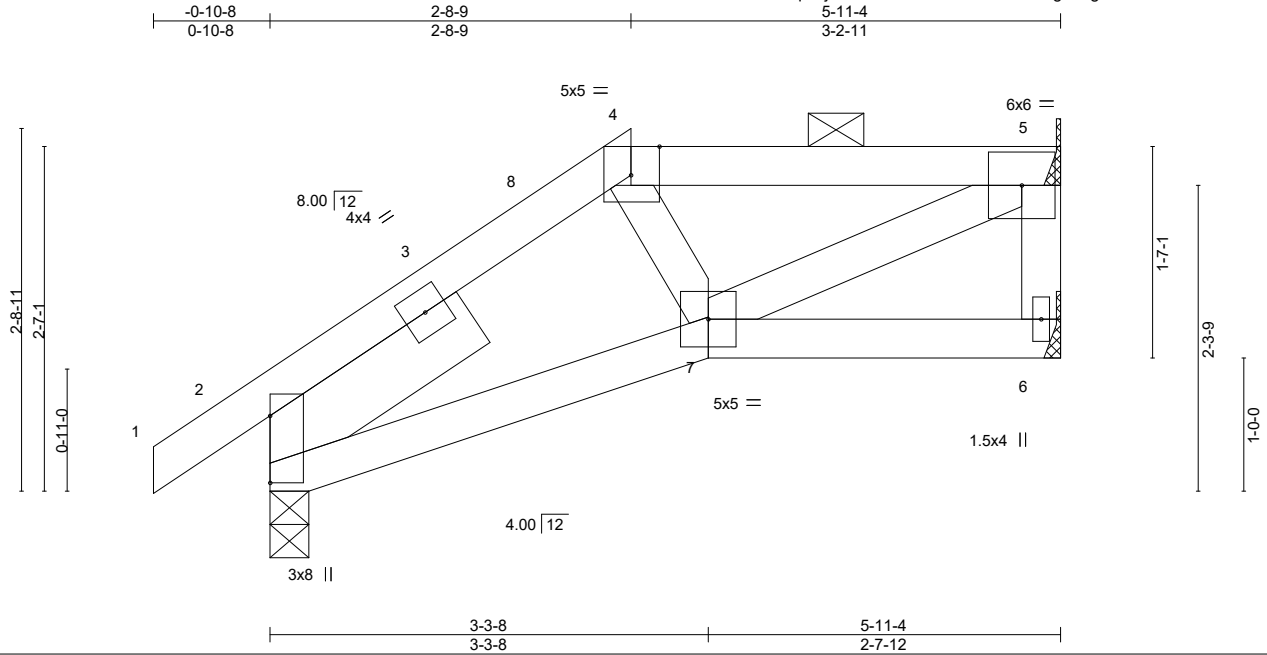
8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:33 2023 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=43(F) 10=-31(F) 11=-94(F) 12=10(F) 14=67(F)

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761107
P230177-01	J5	Half Hip	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:34 2023 Page 1
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Scale = 1:17.3

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15		TC 0.23	Vert(LL) -0.01	2-7	>999	240		MT20	197/144
TCDL 10.0	Lumber DOL 1.15		BC 0.16	Vert(CT) -0.02	2-7	>999	180			
BCLL 0.0 *	Rep Stress Incr NO		WB 0.11	Horz(CT) 0.00	6	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 29 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
SLIDER Left 2x6 SPF No.2 1-10-9

BRACING-

TOP CHORD Sheathed or 5-11-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=71(LC 7)
Max Uplift 2=-40(LC 10), 5=-65(LC 7)
Max Grav 6=50(LC 3), 2=330(LC 1), 5=226(LC 1)

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

TOP CHORD 2-4=-369/109

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Exterior(2R) 2-1-8 to 2-8-9, Exterior(2E) 2-8-9 to 5-9-8 zone; cantilever left and right exposed; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 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) 2, 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



April 14, 2023

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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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	Roof - Osage 70	I57761108
P230177-01	J6	Half Hip	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:36 2023 Page 1
ID:tNc0JE71cPCqdLlj6CNuNlzOoS8-n1LehmqborZOLMk3U1RgwhfCV8b_3Us4zMbruhzR8Xf

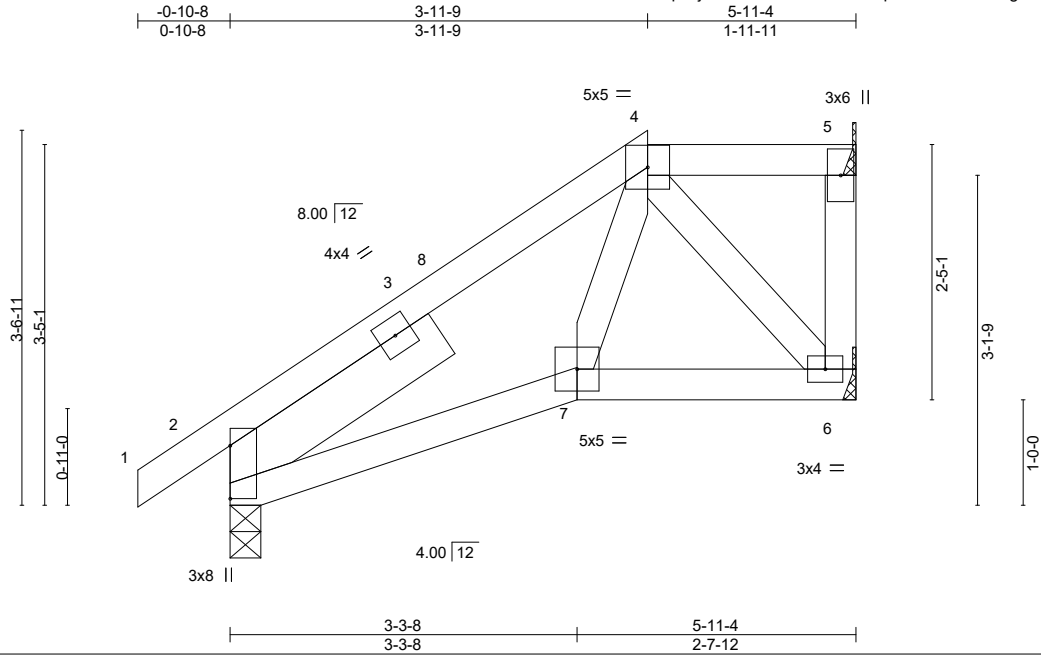


Plate Offsets (X,Y)-- [2:Edge,0-0-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.01	2-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02	2-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.07	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 33 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
SLIDER Left 2x6 SPF No.2 2-5-8

BRACING-

TOP CHORD Sheathed or 5-11-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 6=Mechanical, 2=0-3-8
Max Horz 2=103(LC 7)
Max Uplift 5=26(LC 6), 6=29(LC 7), 2=41(LC 10)
Max Grav 5=64(LC 1), 6=187(LC 1), 2=330(LC 1)

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

TOP CHORD 2-4=327/41

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Exterior(2R) 2-1-8 to 3-11-9, Exterior(2E) 3-11-9 to 5-9-8 zone; cantilever left and right exposed; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 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) 5, 6, 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



April 14, 2023

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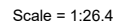
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:37 2023 Page 1
ID:tNc0JE71cPCqdLij6CNUlNzOoS8-GDv0u6gEZ9hFyWJF2kyvSUCQiyXioxBDB0KPQz8rZ8Xe



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Sheathed or 5-11-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 5-6.
BOT CHORD	2x6 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SPF No.3		
SLIDER	Left 2x4 SP No.2 1-10-13		

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

TOP CHORD	2-4=-363/106, 4-5=-275/196
BOT CHORD	2-8=-97/302
WEBS	5-8=-196/329

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Exterior(2R) 2-1-8 to 5-2-9, Exterior(2E) 5-2-9 to 5-9-8 zone; cantilever left and right exposed; 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0Psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 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.



April 14, 2023



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70
P230177-01	J9	Jack-Open	1	1	I57761111

Premier Building Supply (Springhill, KS),

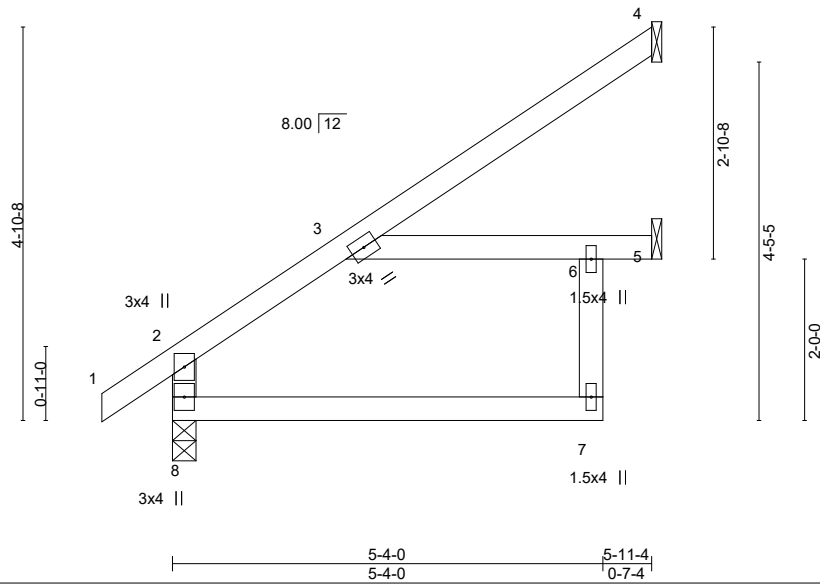
Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:39 2023 Page 1

ID:tNc0JE71cPCqDLj6CNuNlzOoS8-Cc1nJnsU5mxzCqTe99_NYvHcDMWbGsHWfKpVV0zR8Xc

-0-10-8
0-10-8

5-11-4
5-11-4



Scale = 1:28.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.70	Vert(LL) 0.12	3-6	>552	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.16	3-6	>430	180			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT) 0.15	5	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH							

Weight: 29 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

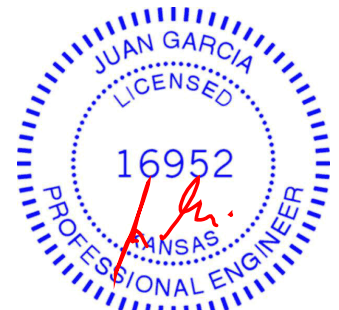
(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=164(LC 10)
Max Uplift 4=-86(LC 10), 5=-2(LC 10)
Max Grav 8=359(LC 1), 4=159(LC 17), 5=178(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-320/96

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; 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) 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.



April 14, 2023

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70
P230177-01	J10	Jack-Open	4	1	I57761112

Premier Building Supply (Springhill, KS),

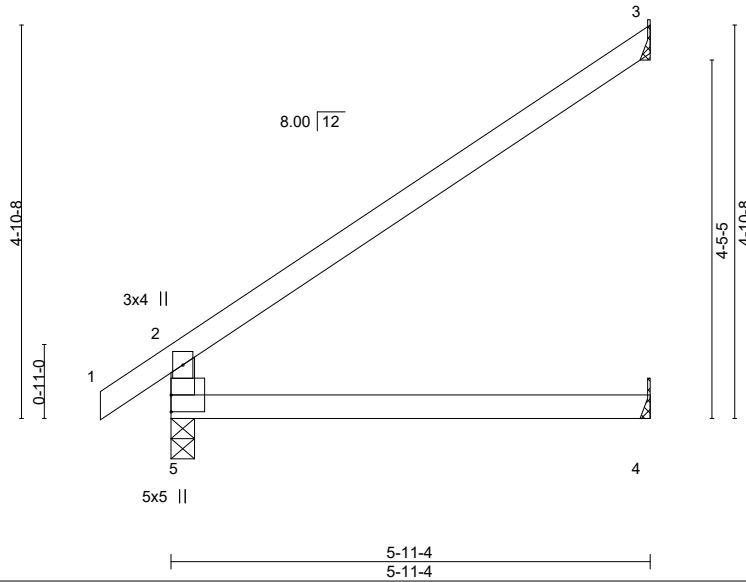
Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:21 2023 Page 1

ID:1Nc0JE71cPCqdLlj6CNuNizOoS8-k8xzXeeBLEgW124A6Ng9p6YXN5Op2jBtWWSYs3zR8Xu

0-10-8 5-11-4
0-10-8 5-11-4

Scale = 1:28.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	0.08	4-5	>884	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.11	4-5	>598	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.06	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=164(LC 10)
Max Uplift 3=-118(LC 10)
Max Grav 5=336(LC 1), 3=189(LC 17), 4=109(LC 3)

FORCES.

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

TOP CHORD 2-5=-293/127

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; 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) 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 bearing connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 3=118.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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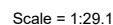
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:22 2023 Page 1
ID:tNc0JE71cPCqdLI6CNUnlzOoS8-CLVLzfp6YoNfCnf4BOLK4lFVJnA0lAC60vZR8Xt



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Sheathed or 5-11-4 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except*		
	3-6: 2x4 SPF No.3		

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; 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) 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 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.



April 14, 2023



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

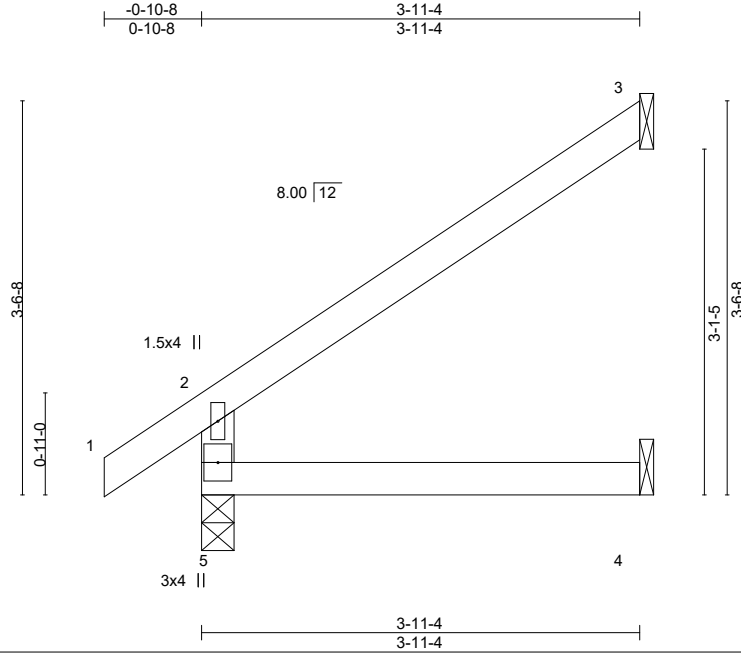
Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70
P230177-01	J12	Jack-Open	17	1	I57761114

Premier Building Supply (Springhill, KS),

Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:23 2023 Page 1

ID:tNc0JE71cPCqdLlj6CNuNizOoS8-gX3jyJgRsrwEHMEZDoiduXdzsv85WdhAzqxfyzR8Xs



Scale = 1:20.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.27	Vert(LL) 0.02	4-5	>999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) -0.02	4-5	>999	180			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.02	3	n/a	n/a			
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R							

Weight: 15 lb FT = 20%

LUMBER-

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

BRACING-

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

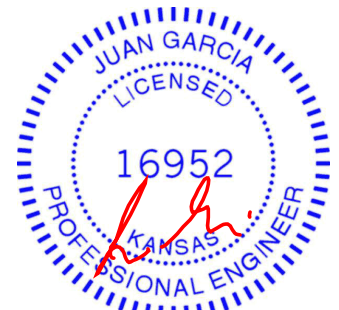
REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=111(LC 10)
Max Uplift 5=-2(LC 10), 3=-80(LC 10)
Max Grav 5=249(LC 1), 3=122(LC 17), 4=71(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 14, 2023

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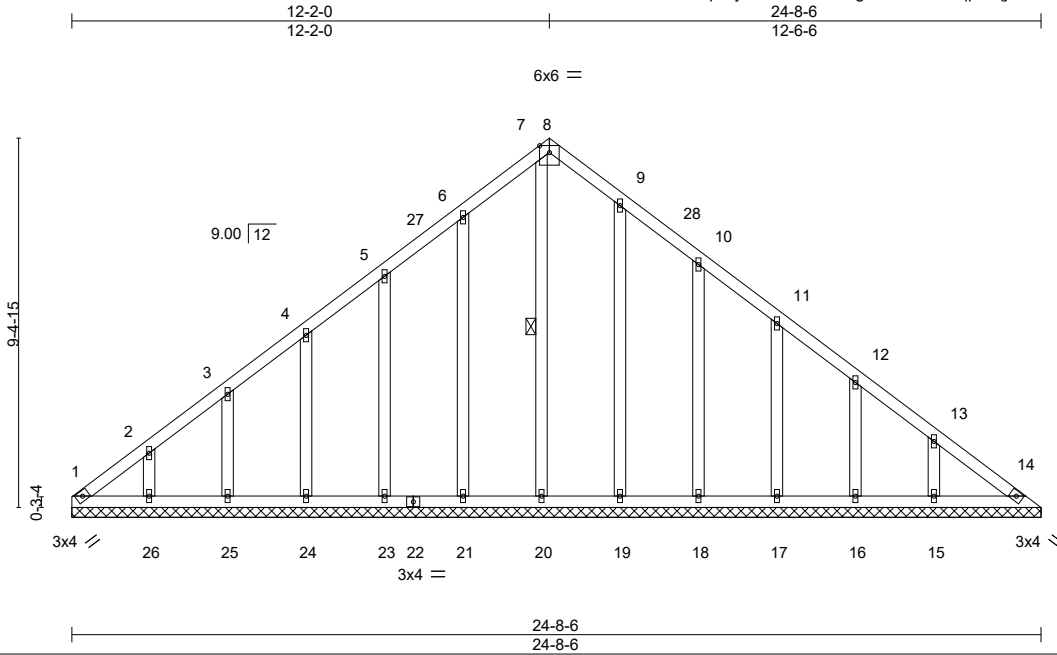


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761120
P230177-01	LAY1	GABLE	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:40 2023 Page 1
ID:tNc0JE71cPCqdlJ6CNuNlzOoS8-gob9W7t6s43qpz1qjsVc47qwWl_V?Hagu_Z31SzR8Xb



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.01 14 n/a n/a		
	Code IRC2018/TPI2014			Weight: 142 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SPF No.3

BRACING-

TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-20

REACTIONS.

All bearings 24-8-6.
(lb) - Max Horz 1=-229(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 14, 26, 25, 24, 23, 21, 19, 18, 17, 16, 15
Max Grav All reactions 250 lb or less at joint(s) 1, 14, 26, 25, 24, 23, 21, 20, 19, 18, 17, 16, 15

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-266/185

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-2-0, Exterior(2R) 9-2-0 to 15-2-0, Interior(1) 15-2-0 to 21-3-2, Exterior(2E) 21-3-2 to 24-3-2 zone; cantilever left and right exposed; 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
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 14, 26, 25, 24, 23, 21, 19, 18, 17, 16, 15.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 14, 2023

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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	Roof - Osage 70	IS7761121
Tupelo-Roof	LAY2	Lay-In Gable	1	1	Job Reference (optional)	

ID:tNc0JE71cPCqDLj6CNuNizOoS8-K3laJSJKrRbDYFgCYDnlLge49mg0hxOPjf?AhzR07J
8.630 s Feb 23 2023 MiTek Industries, Inc. Fri Apr 14 09:10:50 2023 Page 1

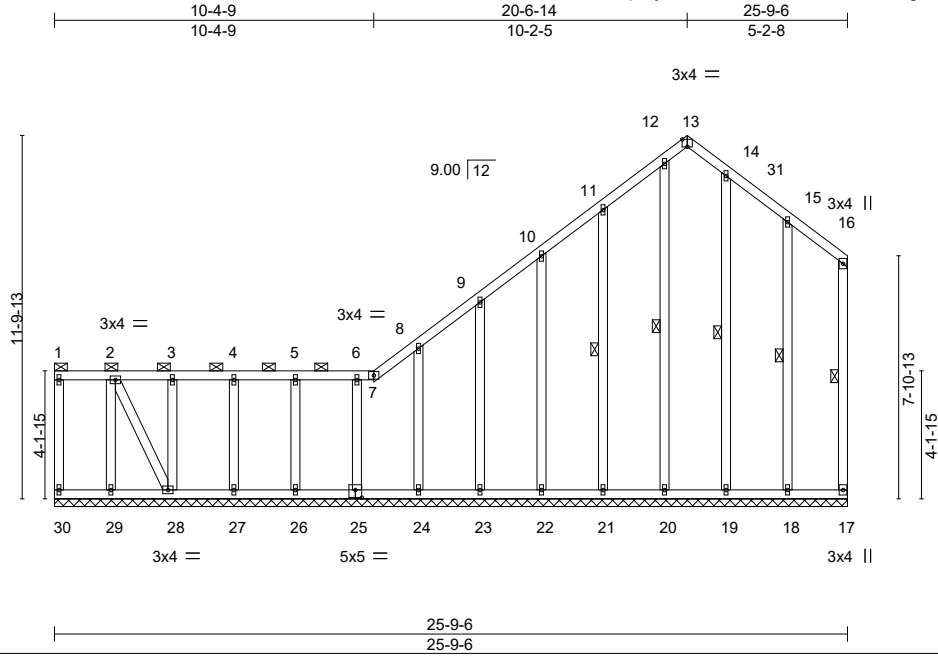


Plate Offsets (X,Y)--		[13:0-2-0,Edge], [25:0-2-8,0-3-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 2-0-0	TC 0.56	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(LL) n/a - n/a 999
BCLL 0.0 *	Rep Stress Incr NO	WB 0.19	Vert(CT) n/a - n/a 999
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH	Horz(CT) -0.01 17 n/a n/a
			PLATES MT20
			GRIP 197/144
			Weight: 186 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SPF No.3	6-0-0 oc bracing: 27-28,26-27,25-26.
OTHERS 2x4 SPF No.3	WEBS 1 Row at midpt 16-17, 12-20, 11-21, 14-19, 15-18

REACTIONS.	All bearings 25-9-6.
(lb) - Max Horz	30=348(LC 9)
Max Uplift	All uplift 100 lb or less at joint(s) 30, 17, 22, 23, 24, 26, 27, 19, 18 except 20=-113(LC 9), 21=-105(LC 10), 25=-136(LC 6), 28=-444(LC 7), 29=-369(LC 6)
Max Grav	All reactions 250 lb or less at joint(s) 30, 17, 20, 21, 22, 23, 24, 26, 27, 19, 18 except 25=250(LC 18), 28=371(LC 17), 29=501(LC 9)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	7-8=-277/218, 8-9=-295/236, 9-10=-265/226, 11-12=-240/283, 14-15=-220/258
BOT CHORD	29-30=-348/266, 28-29=-348/266
WEBS	2-29=-460/393, 2-28=-399/522

- 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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 17-6-14, Exterior(2R) 17-6-14 to 22-7-10, Exterior(2E) 22-7-10 to 25-7-10 zone; cantilever left and right exposed; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 17, 22, 23, 24, 26, 27, 19, 18 except (jt=lb) 20=113, 21=105, 25=136, 28=444, 29=369.
 - 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.



April 14,2023

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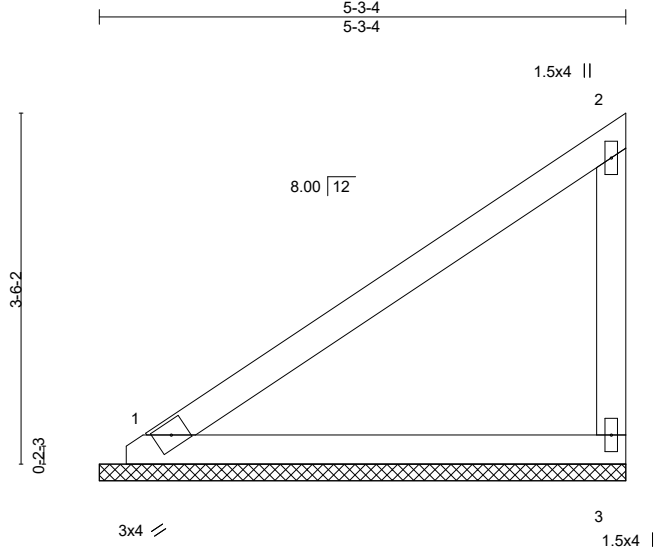
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761123
P230177-01	V1	Valley	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

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ID:tNc0JE71cPCqdLj6CNuNizOoS8-1mO2arxFhch6wIwoWQ5nnAXgemd5ga7P1FGqigzR8XW



Scale = 1:23.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3

BRACING-

TOP CHORD Sheathed or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-3-4, 3=5-3-4
Max Horz 1=119(LC 9)
Max Uplift 1=-15(LC 10), 3=-56(LC 10)
Max Grav 1=209(LC 1), 3=223(LC 17)

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 14, 2023

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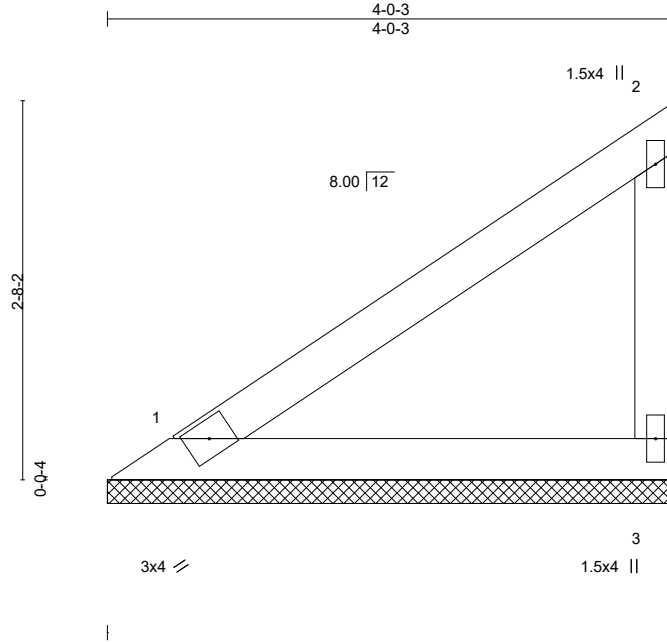
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761124
P230177-01	V2	Valley	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:47 2023 Page 1

ID: tNc0JE71cPCqDLj6CNuNizOoS8-z8Wo_XyVDDyq924Adq7FsbC4YaLpUdiVZlxnZzR8XU



Scale = 1:16.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3

BRACING-

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

REACTIONS.

(size) 1=4-0-3, 3=4-0-3
Max Horz 1=87(LC 7)
Max Uplift 1=-11(LC 10), 3=-41(LC 10)
Max Grav 1=153(LC 1), 3=163(LC 17)

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 14, 2023

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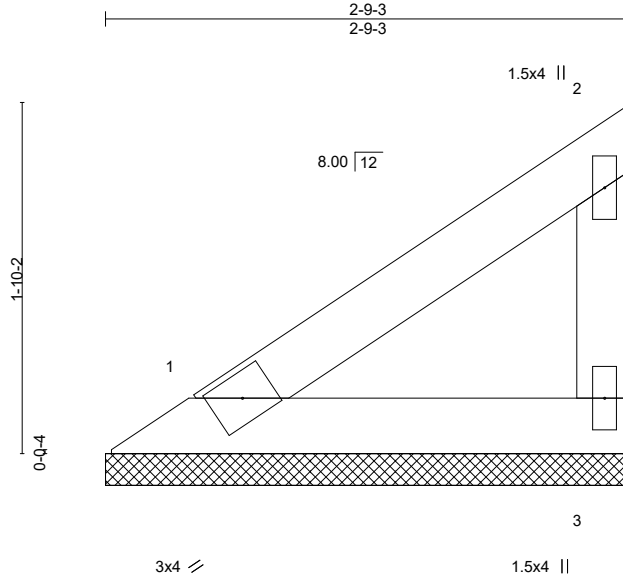
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70
P230177-01	V3	Valley	1	1	Job Reference (optional)

I57761125

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:48 2023 Page 1
ID:tNc0JE71cPCqDLj6CNuNizOoS8-RL3ACsz7_X4hnCfNBYPp9i9_jVttrjDVUJ?zR8XT



Scale: 1"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-P					Weight: 10 lb	FT = 20%
	Code IRC2018/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3

BRACING-

TOP CHORD Sheathed or 2-9-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=2-9-3, 3=2-9-3
Max Horz 1=55(LC 7)
Max Uplift 1=-7(LC 10), 3=-26(LC 10)
Max Grav 1=96(LC 1), 3=103(LC 17)

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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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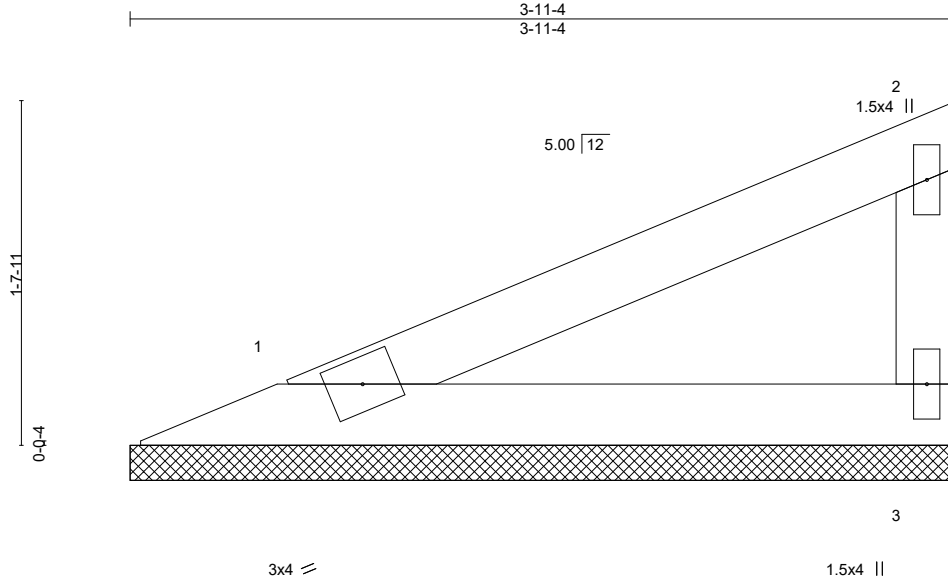
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761127
P230177-01	V5	Valley	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:50 2023 Page 1

ID:tNc0JE71cPCqDLj6CNuNizOoS8-NjBxdY?NV8KP0WollzhyUEEconN_LrN8BX_bOtZR8XR



Scale = 1:11.0

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 0.22	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 12 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3

BRACING-

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

REACTIONS.

(size) 1=3-11-4, 3=3-11-4
Max Horz 1=54(LC 7)
Max Uplift 1=-18(LC 10), 3=-29(LC 10)
Max Grav 1=137(LC 1), 3=137(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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 14, 2023

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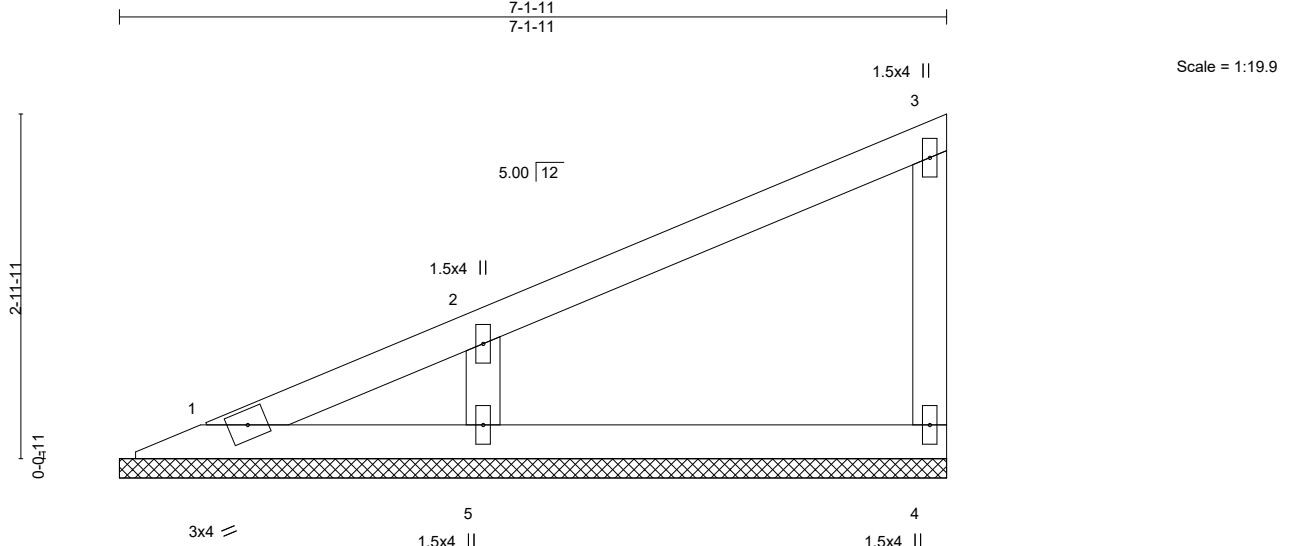
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	157761128
P230177-01	V6	Valley	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:51 2023 Page 1

ID: tNc0JE71cPCqDLj6CNUlZ0oS8-rwJqu?0GSSGegNxsgCB1RnnABi04HLHQBj8wKzR8XQ



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.08	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 24 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
OTHERS 2x4 SPF No.3

BRACING-

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

REACTIONS.

(size) 1=7-1-11, 4=7-1-11, 5=7-1-11
Max Horz 1=110(LC 7)
Max Uplift 4=-24(LC 10), 5=-91(LC 10)
Max Grav 1=62(LC 18), 4=140(LC 1), 5=367(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-285/255

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 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.



April 14, 2023

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

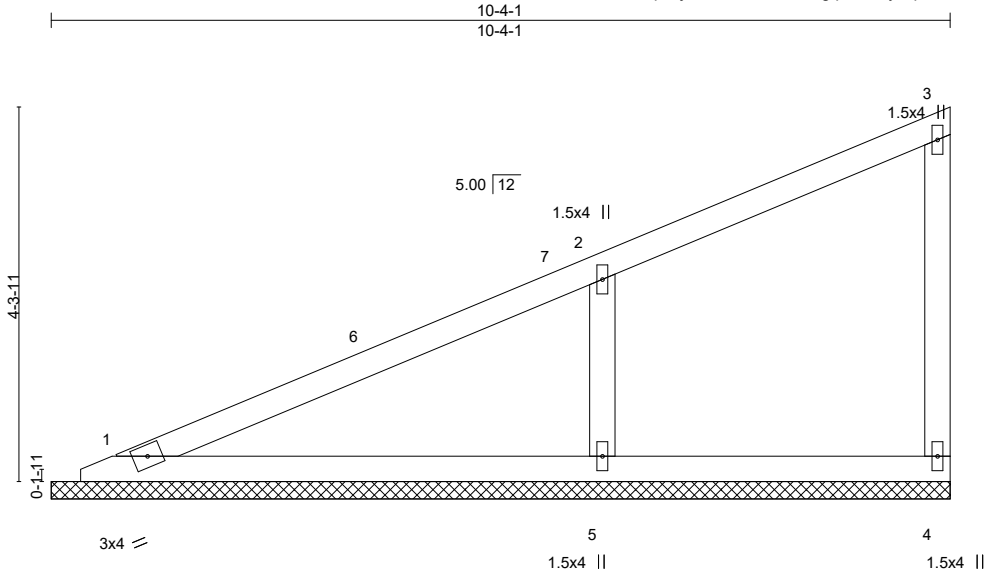
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761129
Tupelo-Roof	V7	Valley	1	1	Job Reference (optional)	

ID: tNc0JE71cPCqdLlj6CNuNizOoS8-w0glp2hmXyVqm0X9sDr06DQONFExSzWzn2g8lOzR06q
8.630 s Feb 23 2023 MiTek Industries, Inc. Fri Apr 14 09:11:21 2023 Page 1



Scale = 1:26.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.49	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.29	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH					Weight: 37 lb	FT = 20%
	Code IRC2018/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
OTHERS 2x4 SPF No.3

BRACING-

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

REACTIONS.

(size) 1=10-4-1, 4=10-4-1, 5=10-4-1
Max Horz 1=166(LC 7)
Max Uplift 1=-1(LC 10), 4=-21(LC 7), 5=-133(LC 10)
Max Grav 1=204(LC 1), 4=104(LC 1), 5=542(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-397/248

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-11-6, Exterior(2R) 5-11-6 to 10-2-5 zone; cantilever left and right exposed; 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=133.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



April 14, 2023

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

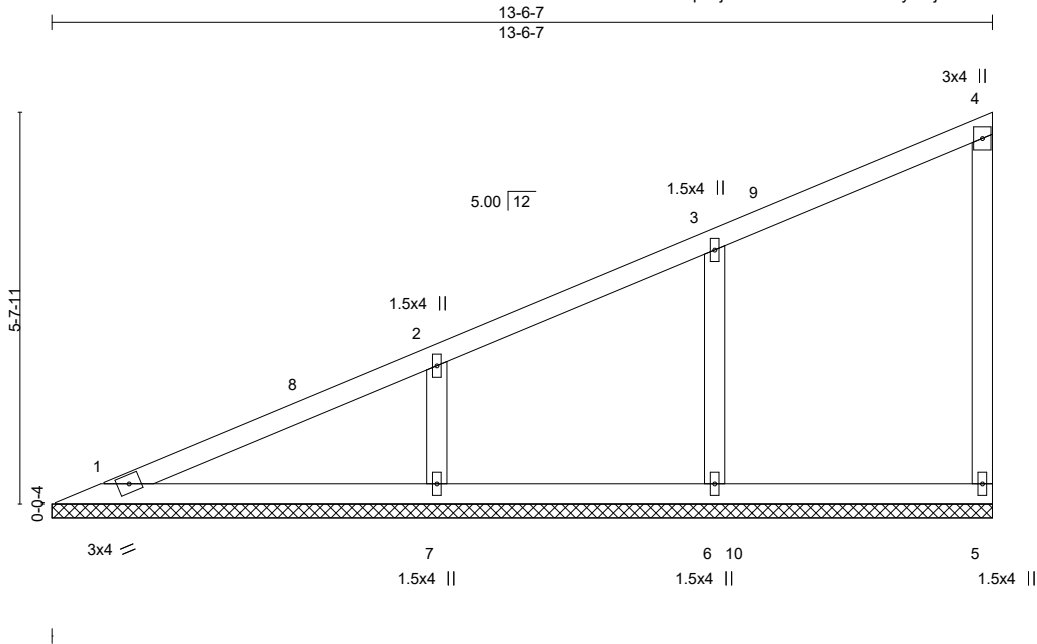
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	IS7761130
Tupelo-Roof	V8	Valley	1	1	Job Reference (optional)	

8.630 s Feb 23 2023 MiTek Industries, Inc. Fri Apr 14 09:11:43 2023 Page 1
ID:tNc0JE71cPCqdLlj6CNuNlzOoS8-HF?cQayZMjGiPODO8rEA?sLB17mscw_CrT?IX6zR06U



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.35	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH					Weight: 52 lb	FT = 20%
	Code IRC2018/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
OTHERS 2x4 SPF No.3

BRACING-

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

REACTIONS.

All bearings 13-6-7.
(lb) - Max Horz 1=222(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=-113(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=396(LC 2), 7=464(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-284/156, 2-7=-334/190

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 10-4-11, Exterior(2E) 10-4-11 to 13-4-11 zone; cantilever left and right exposed; 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
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=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.



April 14, 2023

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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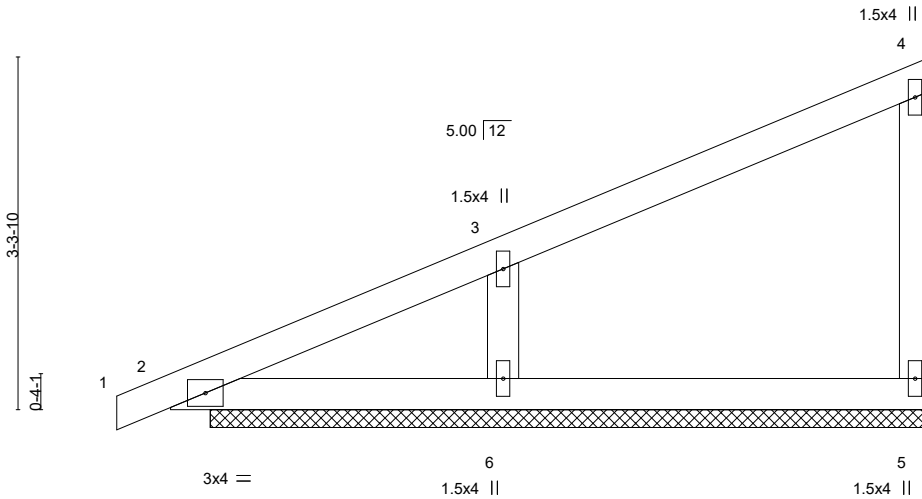
Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761131
P230177-01	V9	Valley	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:55 2023 Page 1

ID: tNc0JE71cPCqdlj6CNuNlzOoS8-kh?qqG2WKhyi6Hj5WH7BHyRso4q04FkPhM35zR8XM

-0-10-8 0-10-8 6-8-14 6-8-14



Scale = 1:21.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Vert(CT) 0.00 1 n/r 80		
BCDL 10.0	Rep Stress Incr NO	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2018/TPI2014			Weight: 27 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
OTHERS 2x4 SPF No.3

BRACING-

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

REACTIONS.

(size) 5=6-8-14, 2=6-8-14, 6=6-8-14
Max Horz 2=127(LC 7)
Max Uplift 5=-22(LC 10), 2=-4(LC 6), 6=-97(LC 10)
Max Grav 5=137(LC 1), 2=134(LC 1), 6=391(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-303/276

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 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.



April 14, 2023

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Roof - Osage 70	I57761132
P230177-01	V10	Valley	1	1	Job Reference (optional)	

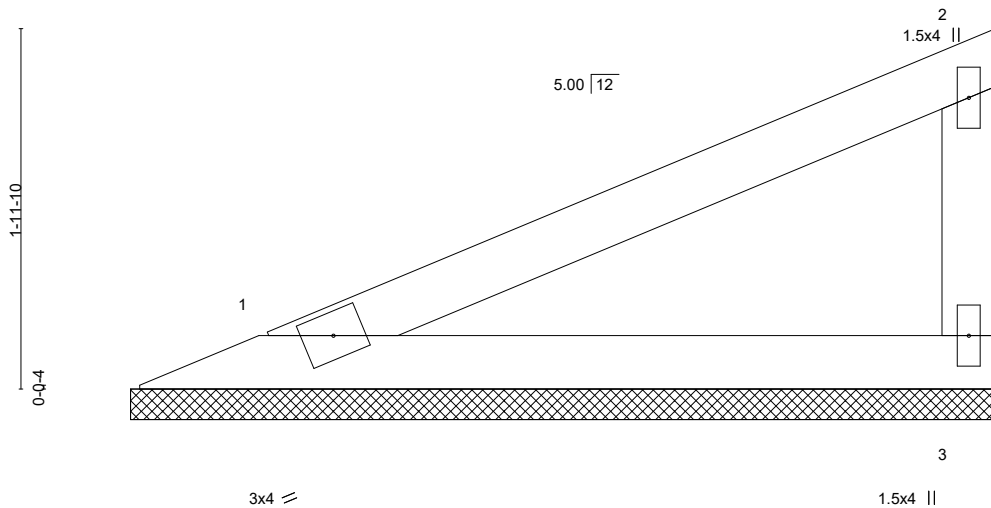
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Apr 13 11:36:46 2023 Page 1

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4-8-10

4-8-10



Scale = 1:12.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3

BRACING-

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

REACTIONS.

(size) 1=4-8-10, 3=4-8-10
Max Horz 1=67(LC 7)
Max Uplift 1=-23(LC 10), 3=-36(LC 10)
Max Grav 1=172(LC 1), 3=172(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; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; 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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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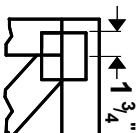
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



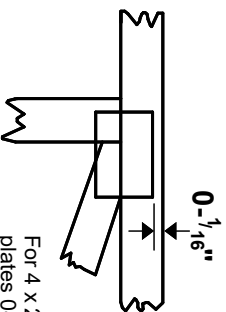
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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 20/20** software or upon request.

PLATE SIZE

4 X 4

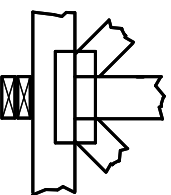
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



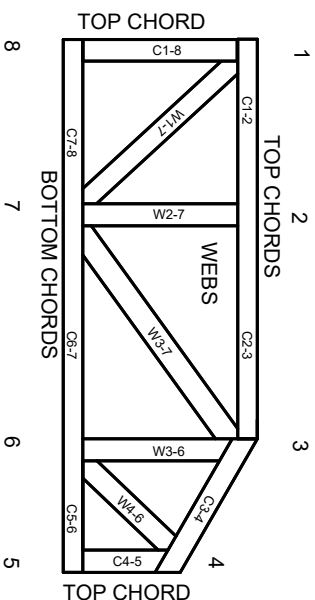
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.