MiTek®

RE: P240061-01
3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer: Clover & Hive Project Name: P240061-01
Lot/Block: 46 Model: Juneau Townhomes
Address: 3711/3713/3715/3717 SW Clayton Pl Subdivision: Osage
City: Lee's Summit State: MO

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6
Wind Code: ASCE 7 - 16[Low Rise] Wind Speed: 115 mph
Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 65 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I58712438	A2	6/5/2023	21	I58712458	A22	6/5/2023
2	I58712439	A3	6/5/2023	22	I58712459	A23	6/5/2023
3	I58712440	A4	6/5/2023	23	I58712460	B1	6/5/2023
4	I58712441	A5	6/5/2023	24	I58712461	B2	6/5/2023
5	I58712442	A6	6/5/2023	25	I58712462	B3	6/5/2023
6	I58712443	A7	6/5/2023	26	I58712463	B4	6/5/2023
7	I58712444	A8	6/5/2023	27	I58712464	C1	6/5/2023
8	I58712445	A9	6/5/2023	28	I58712465	C2	6/5/2023
9	I58712446	A10	6/5/2023	29	I58712466	C2-	6/5/2023
10	I58712447	A11	6/5/2023	30	I58712467	CJA1	6/5/2023
11	I58712448	A12	6/5/2023	31	I58712468	CJA2	6/5/2023
12	I58712449	A13	6/5/2023	32	I58712469	CJA3	6/5/2023
13	I58712450	A14	6/5/2023	33	I58712470	D1	6/5/2023
14	I58712451	A15	6/5/2023	34	I58712471	D2	6/5/2023
15	I58712452	A16	6/5/2023	35	I58712472	D3	6/5/2023
16	I58712453	A17	6/5/2023	36	I58712473	D4	6/5/2023
17	I58712454	A18	6/5/2023	37	I58712474	D5	6/5/2023
18	I58712455	A19	6/5/2023	38	I58712475	D6	6/5/2023
19	I58712456	A20	6/5/2023	39	I58712476	D7	6/5/2023
20	I58712457	A21	6/5/2023	40	I58712477	D8	6/5/2023

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

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2025.

Missouri COA: 001193

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

June 05, 2023

Sevier, Scott

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/20/2024 9:20:35

RE: P240061-01 - 3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Project Customer: Clover & Hive Project Name: P240061-01
Lot/Block: 46 Subdivision: Osage
Address: 3711/3713/3715/3717 SW Clayton Pl
City, County: Lee's Summit State: MO

No.	Seal#	Truss Name	Date
41	I58712478	HG1	6/5/2023
42	I58712479	HG2	6/5/2023
43	I58712480	HG3	6/5/2023
44	I58712481	HG4	6/5/2023
45	I58712482	JA1	6/5/2023
46	I58712483	JA2	6/5/2023
47	I58712484	JA3	6/5/2023
48	I58712485	JA4	6/5/2023
49	I58712486	JA5	6/5/2023
50	I58712487	JA6	6/5/2023
51	I58712488	V1	6/5/2023
52	I58712489	V2	6/5/2023
53	I58712490	V3	6/5/2023
54	I58712491	VB1	6/5/2023
55	I58712492	VB2	6/5/2023
56	I58712493	VB3	6/5/2023
57	I58712494	VB4	6/5/2023
58	I58712495	VB5	6/5/2023
59	I58712496	VB6	6/5/2023
60	I58712497	VB7	6/5/2023
61	I58712498	VC1	6/5/2023
62	I58712499	VC2	6/5/2023
63	I58712500	VC3	6/5/2023
64	I58712501	VC4	6/5/2023
65	I58712502	VC5	6/5/2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A2	Roof Special Girder	2	2	I58712438

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:31 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0	4-0-13	7-11-5	12-8-1	15-4-4	17-6-0	19-7-12	22-3-15	27-0-11	30-11-3	35-0-0	35-11-0
0-11-0	4-0-13	3-10-8	4-8-11	2-8-3	2-1-12	2-1-12	2-8-3	4-8-11	3-10-8	4-0-13	0-11-0

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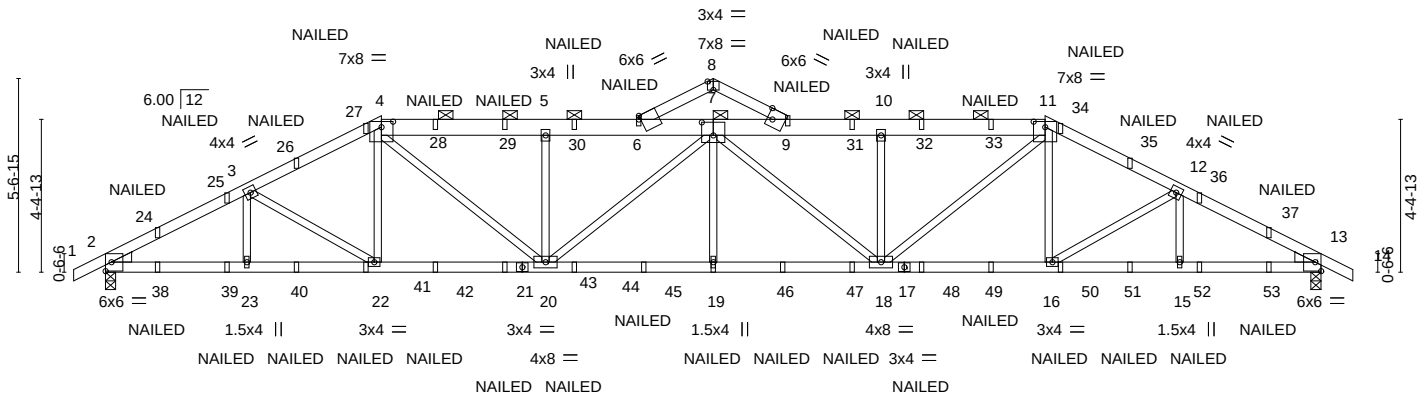


4-0-13	7-11-5	12-8-1	15-4-4	19-7-12	22-3-15	27-0-11	30-11-3	35-0-0
4-0-13	3-10-8	4-8-11	2-8-3	4-3-8	2-8-3	4-8-11	3-10-8	4-0-13

Plate Offsets (X,Y)-- [2:Edge,0-3-2], [4:0-4-0,0-1-15], [6:Edge,0-1-2], [7:0-4-0,0-4-8], [8:0-2-0,Edge], [9:0-1-13,Edge], [11:0-4-0,0-1-15], [13:Edge,0-3-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.20	19	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.36	19-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.13	13	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 339 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 4-7,7-11: 2x6 SPF No.2
BOT CHORD	2x4 SP No.2
WEBS	2x3 SPF No.2
WEDGE	Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-

TOP CHORD	Sheathed or 5-3-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-11.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 7

REACTIONS. (size) 2=0-3-8, 13=0-3-8
Max Horz 2=-95(LC 41)
Max Uplift 2=-676(LC 9), 13=-739(LC 9)
Max Grav 2=2858(LC 1), 13=2858(LC 1)

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

TOP CHORD	2-3=-5121/1305, 3-4=-4662/1343, 4-5=-5591/1707, 5-6=-5584/1703, 6-7=-5369/1647, 7-9=-5369/1682, 9-10=-5584/1717, 10-11=-5591/1721, 6-8=-254/84, 8-9=-254/82, 11-12=-4662/1387, 12-13=-5121/1359
BOT CHORD	2-23=-1108/4359, 22-23=-1108/4359, 20-22=-1109/4141, 19-20=-1566/5883, 18-19=-1566/5883, 16-18=-1099/4141, 15-16=-1121/4359, 13-15=-1121/4359
WEBS	3-23=0/305, 3-22=-308/67, 4-22=-75/405, 4-20=-642/1913, 5-20=-836/490, 7-20=-483/66, 7-19=0/378, 7-18=-389/61, 10-18=-836/489, 11-18=-601/1913, 11-16=-68/386, 12-16=-269/53, 12-15=0/307

NOTES-

1) 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, 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Webs connected as follows: 2x3 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) 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
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=676, 13=739.
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.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

June 5,2023

NOTES-

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

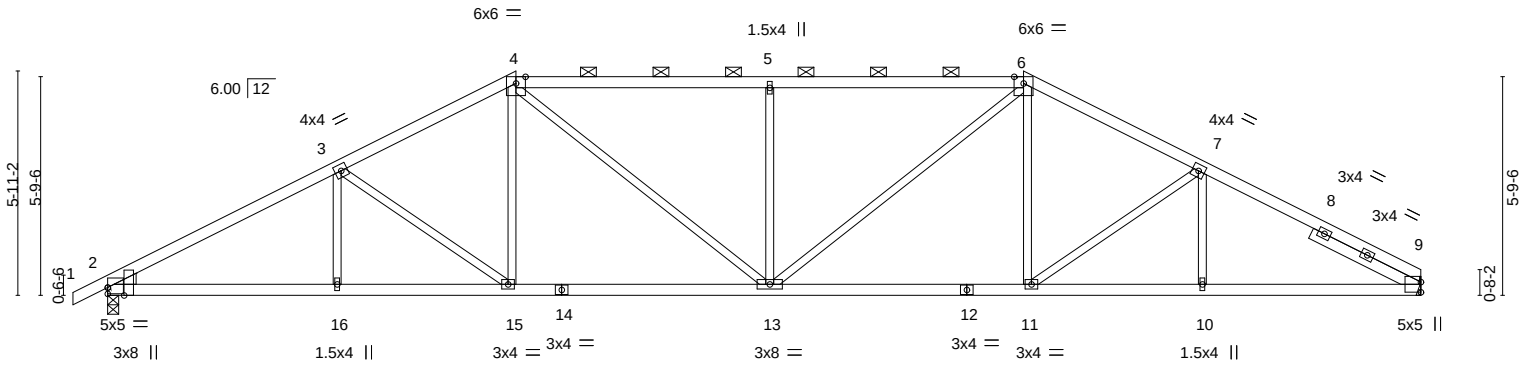
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-70, 4-6=-70, 9-11=-70, 6-8=-70, 8-9=-70, 11-14=-70, 2-13=-20
   Concentrated Loads (lb)
   Vert: 6=-115(F) 9=-115(F) 19=-35(F) 24=-69(F) 25=-46(F) 27=-92(F) 28=-115(F) 29=-115(F) 30=-115(F) 31=-115(F) 32=-115(F) 33=-115(F) 34=-92(F) 36=-46(F) 37=-69(F) 38=-81(F) 39=-104(F) 40=-156(F) 41=-58(F) 42=-35(F) 43=-35(F) 44=-35(F) 45=-35(F) 46=-35(F) 47=-35(F) 48=-35(F) 49=-35(F) 50=-58(F) 51=-156(F) 52=-104(F) 53=-81(F)

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A3	Hip	2	1	I58712439
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:41 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0 6-0-13 10-9-8 17-6-0 24-2-8 28-11-4 34-8-8
0-11-0 6-0-13 4-8-11 6-8-8 6-8-8 4-8-12 5-9-5

Scale = 1:60.9



6-0-13 10-9-8 17-6-0 24-2-8 28-11-4 34-8-8
6-0-13 4-8-11 6-8-8 6-8-8 4-8-12 5-9-5

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.17	13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.34	13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 155 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2
WEBS 2x3 SPF No.2
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-2-6

BRACING-
TOP CHORD Sheathed or 2-6-11 oc purlins, except 2-0-0 oc purlins (3-10-10 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 2=0-3-8
Max Horz 2=102(LC 12)
Max Uplift 9=-115(LC 9), 2=-140(LC 8)
Max Grav 9=1554(LC 1), 2=1631(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2834/193, 3-4=-2408/220, 4-5=-2520/263, 5-6=-2520/263, 6-7=-2385/216, 7-9=-2731/192
BOT CHORD 2-16=-186/2401, 15-16=-186/2401, 13-15=-150/2088, 11-13=-86/2080, 10-11=-103/2307, 9-10=-103/2307
WEBS 3-15=-387/167, 4-15=-24/373, 4-13=-145/687, 5-13=-584/219, 6-13=-147/696, 6-11=-18/347, 7-11=-287/163

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) 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) 9=115, 2=140.
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.

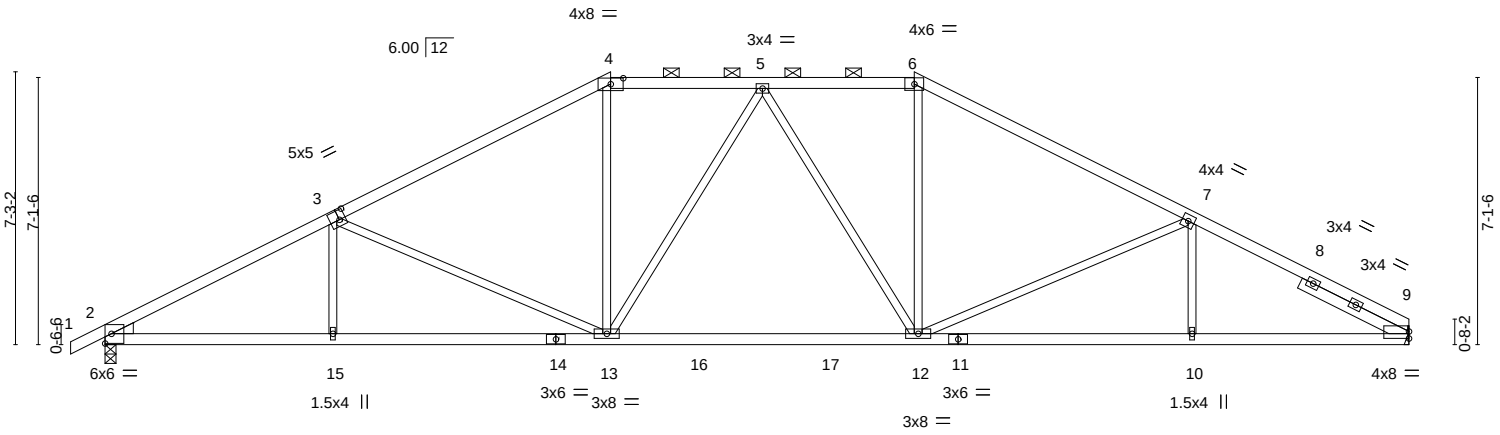
June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A4	Hip	2	1	I58712440
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:43 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0	6-0-12	13-5-8	17-6-0	21-6-8	28-11-4	34-8-8
0-11-0	6-0-12	7-4-12	4-0-8	4-0-8	7-4-12	5-9-4

Scale = 1:61.3



6-0-12	13-5-8	21-6-8	28-11-4	34-8-8
6-0-12	7-4-12	8-1-0	7-4-12	5-9-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.35	12-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.58	12-13	>710	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 156 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E *Except*
4-6: 2x4 SP No.2, 1-3: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP 1650F 1.5E
WEBS 2x3 SPF No.2
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-2-6

BRACING-
TOP CHORD Sheathed, except
2-0-0 oc purlins (3-10-5 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=Mechanical, 2=0-3-8
Max Horz 2=125(LC 12)
Max Uplift 9=-141(LC 9), 2=-166(LC 8)
Max Grav 9=1624(LC 2), 2=1687(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2923/211, 3-4=-2290/178, 4-5=-1989/219, 5-6=-1975/216, 6-7=-2303/187, 7-9=-2893/251
BOT CHORD 2-15=-218/2482, 13-15=-218/2482, 12-13=-56/2053, 10-12=-145/2470, 9-10=-145/2470
WEBS 3-15=0/282, 3-13=-546/168, 4-13=0/653, 5-13=-335/123, 5-12=-345/119, 6-12=0/652, 7-12=-562/219, 7-10=0/254

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=141, 2=166.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A5	Hip	2	1	I58712441
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:44 2023 Page 1

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-0-11-0	6-0-12	11-5-10	11-6-14	16-1-8	18-10-8	24-2-5	28-1-0	30-2-14	34-8-8
0-11-0	6-0-12	5-4-14	0-1-4	4-6-10	2-9-0	5-3-13	3-10-11	2-1-14	4-5-11

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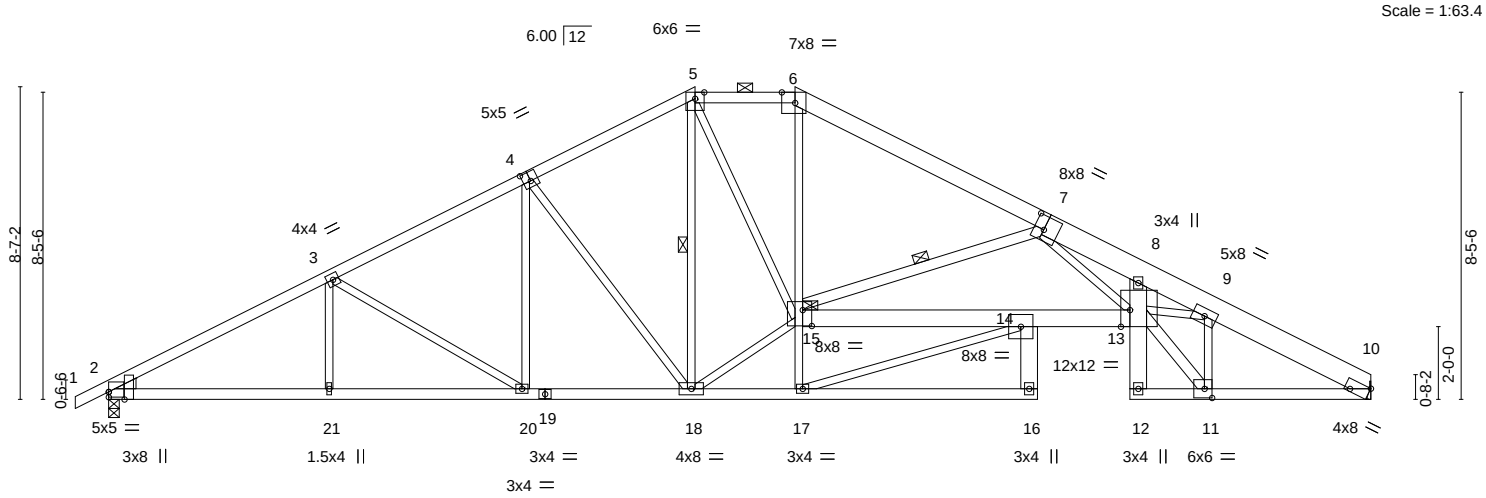

6-0-12	8-4-13	11-4-6	11-5-10	16-1-8	18-10-8	24-2-5	25-6-8	26-7-12	28-1-0	30-2-14	34-8-8
6-0-12	2-4-1	2-11-9	0-1-4	4-7-14	2-9-0	5-3-13	1-4-3	1-1-4	1-5-4	2-1-14	4-5-11

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.28	14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.52	14	>790	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.28	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 212 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-7: 2x6 SPF No.2, 7-10: 2x8 SPF No.2
BOT CHORD 2x4 SP No.2 *Except*
13-15: 2x6 SP 2400F 2.0E, 14-16,8-12: 2x6 SPF No.2
WEBS 2x3 SPF No.2 *Except*
11-13,7-15: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed or 2-7-6 oc purlins, except
2-0-0 oc purlins (3-11-10 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-18, 7-15
JOINTS 1 Brace at Jt(s): 15

REACTIONS. (size) 2=0-3-8, 10=Mechanical
Max Horz 2=148(LC 8)
Max Uplift 2=-187(LC 8), 10=-162(LC 9)
Max Grav 2=1628(LC 1), 10=1551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2846/289, 3-4=-2318/253, 4-5=-1869/232, 5-6=-1986/219, 6-7=-2325/207, 7-8=-5803/472, 8-9=-5733/470, 9-10=-2829/287
BOT CHORD 2-21=-317/2416, 20-21=-317/2416, 18-20=-165/1981, 17-18=-37/659, 11-12=-35/288, 10-11=-193/2420, 14-15=-161/3047, 13-14=-165/3706, 8-13=0/489
WEBS 3-21=0/256, 4-20=-35/364, 4-18=-581/170, 15-18=-28/1183, 6-15=-35/608, 14-17=-65/486, 9-11=-2256/215, 5-15=-15/798, 11-13=-229/3099, 7-15=-1824/290, 3-20=-528/178, 7-13=-145/2287, 9-13=-94/2549

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) 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) 2=187, 10=162.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A6	Common	2	1	I58712442
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:46 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0	6-0-12	11-5-10	17-6-0	23-6-6	28-11-4	34-8-8
0-11-0	6-0-12	5-4-14	6-0-6	6-0-6	5-4-14	5-9-4

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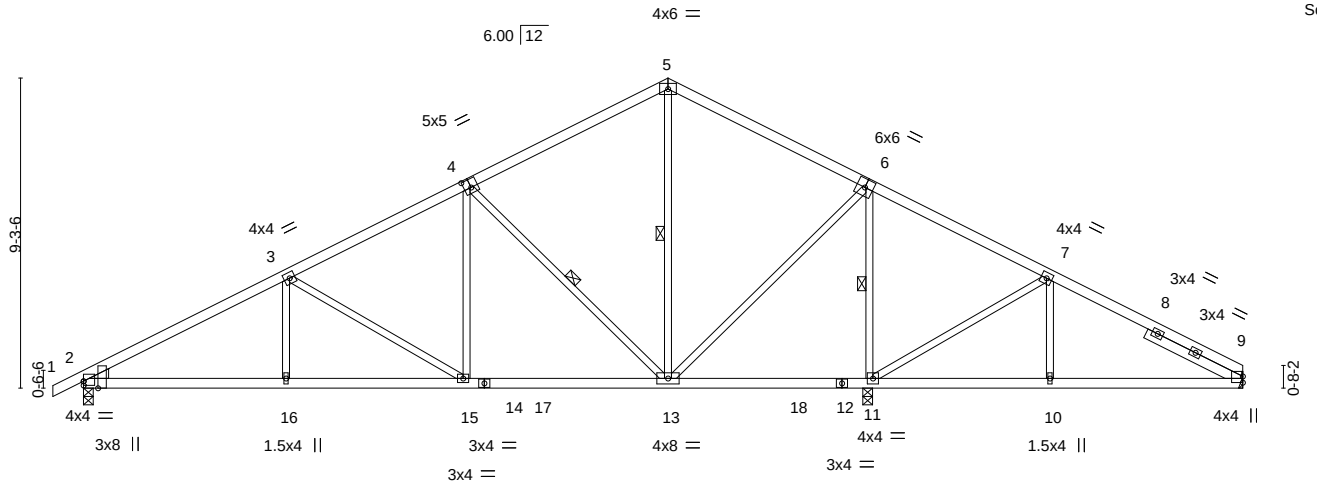

6-0-12	11-5-10	17-6-0	23-6-6	23-7-8	28-11-4	34-8-8
6-0-12	5-4-14	6-0-6	6-0-6	0-1-2	5-3-12	5-9-4

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

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	0.89	Vert(LL)	-0.08	13-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.14	13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 161 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x3 SPF No.2
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-2-6

BRACING-
TOP CHORD Sheathed or 4-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-13, 6-11, 4-13

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 9=Mechanical
Max Horz 2=160(LC 8)
Max Uplift 2=-154(LC 8), 11=-130(LC 8), 9=-89(LC 9)
Max Grav 2=1072(LC 2), 11=1920(LC 2), 9=413(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1698/221, 3-4=-1127/182, 4-5=-513/173, 5-6=-513/168, 6-7=-2/423, 7-9=-479/141
BOT CHORD 2-16=-271/1468, 15-16=-271/1468, 13-15=-114/972, 11-13=-333/115, 10-11=-44/361, 9-10=-44/361
WEBS 6-13=-98/1055, 6-11=-1377/173, 7-11=-632/186, 4-13=-737/198, 4-15=-33/505, 3-15=-582/182, 3-16=0/257

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=154, 11=130.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A7	Roof Special	2	1	I58712443 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:48 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

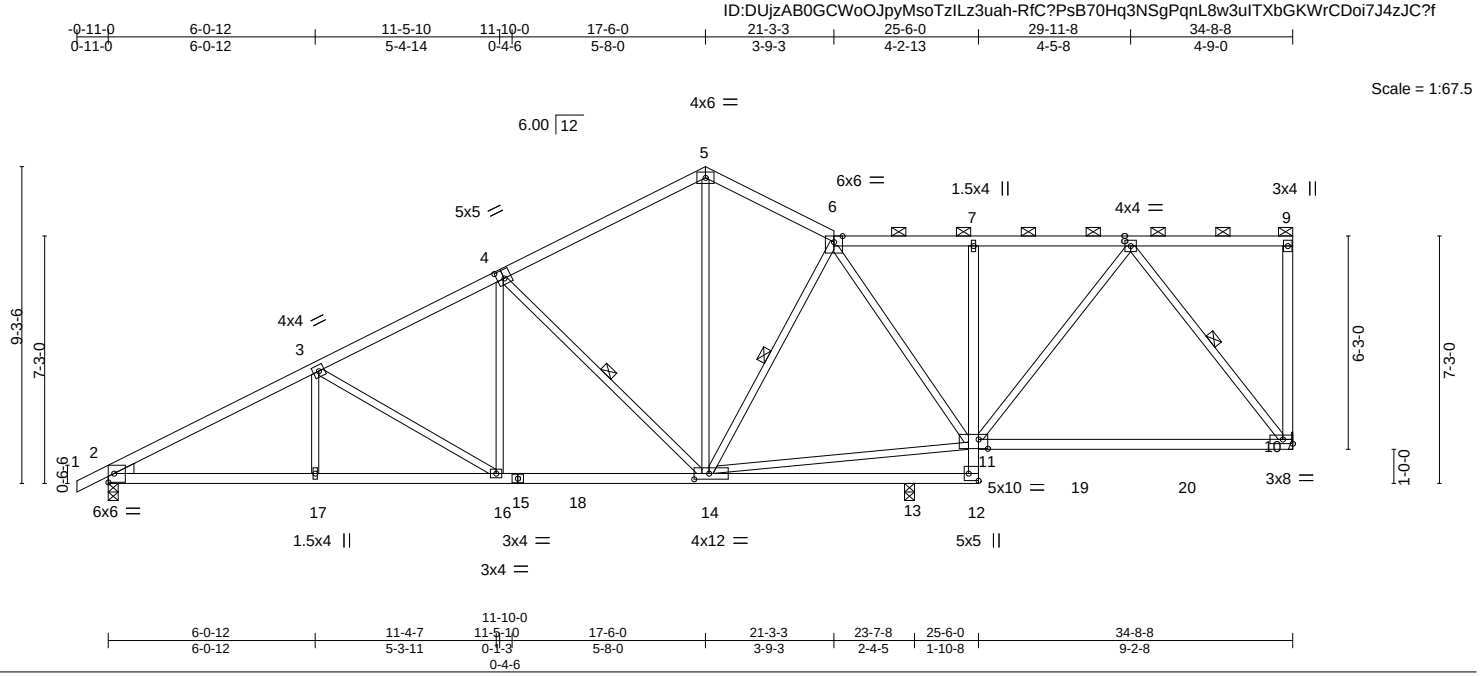

Plate Offsets (X,Y)-- [2:Edge,0-3-2], [4:0-2-8,0-3-0], [11:0-3-4,0-3-4], [12:Edge,0-3-8], [14:0-5-4,0-2-0]

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	0.69	Vert(LL)	-0.37	10-11	>356	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.65	10-11	>206	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 184 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* 10-11: 2x4 SP 1650F 1.5E
WEBS 2x3 SPF No.2 *Except* 9-10: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Sheathed or 3-1-2 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-7 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 1-7-8 oc bracing.
WEBS 1 Row at midpt 8-10, 4-14, 6-14

REACTIONS. (size) 10=Mechanical, 2=0-3-8, 13=0-3-8
Max Horz 2=291(LC 5)
Max Uplift 10=-220(LC 9), 2=-199(LC 8)
Max Grav 10=1296(LC 2), 2=1516(LC 2), 13=513(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2611/314, 3-4=-2070/279, 4-5=-1452/235, 5-6=-1452/270, 6-7=-1338/190, 7-8=-1354/187
BOT CHORD 2-17=-393/2226, 16-17=-393/2226, 14-16=-242/1775, 13-14=-315/0, 12-13=-315/0, 11-12=-285/29, 7-11=-340/127, 10-11=-208/810
WEBS 4-16=-33/505, 5-14=-93/949, 11-14=-234/1863, 6-11=-355/99, 8-11=-95/906, 8-10=-1294/282, 3-16=-542/177, 3-17=0/253, 4-14=-738/199, 6-14=-636/182

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=220, 2=199.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A8	Roof Special	2	1	I58712444
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:50 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

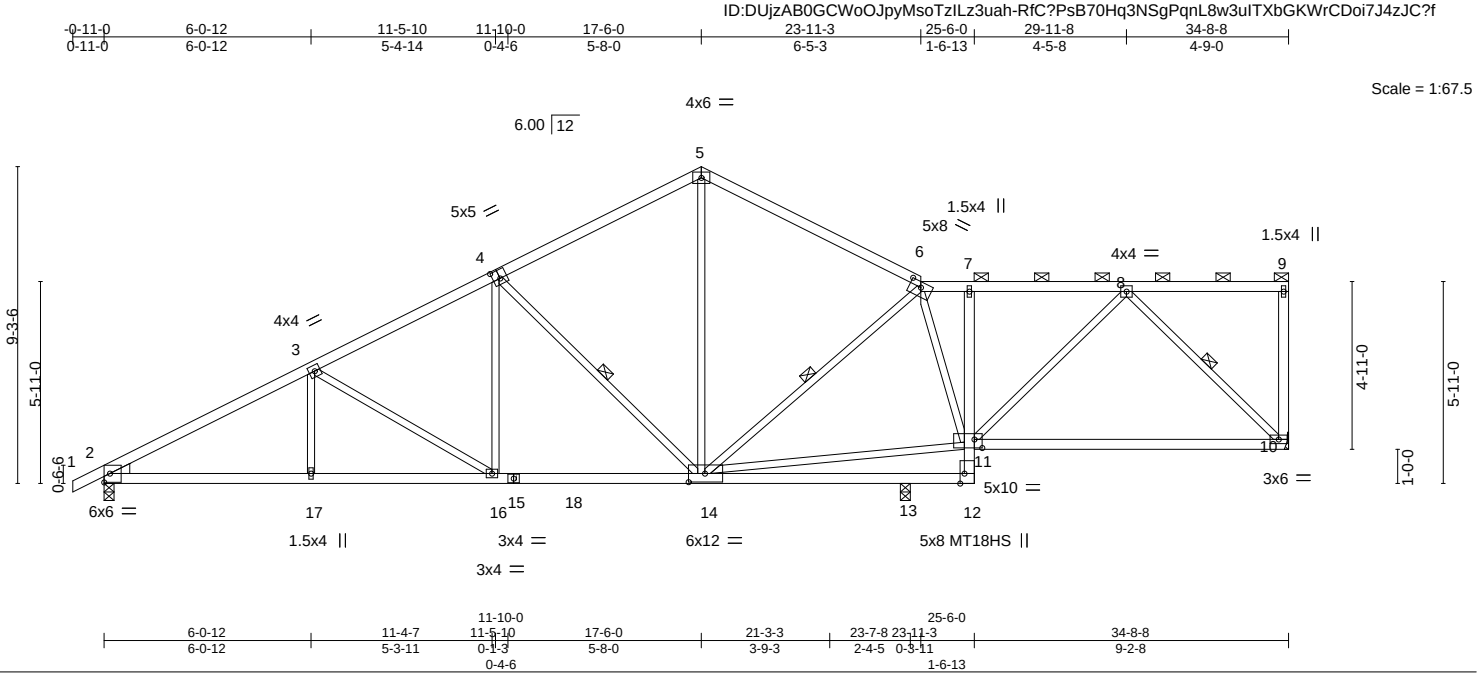

Plate Offsets (X,Y)-- [2:Edge,0-3-2], [4:0-2-8,0-3-0], [6:0-4-0,0-1-14], [11:0-2-12,0-3-0], [12:0-3-8,Edge], [14:0-5-12,0-3-0]

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	0.94	Vert(LL)	-0.25	10-11	>536	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.52	10-11	>254	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 177 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-5: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP 1650F 1.5E *Except* 7-12,2-15: 2x4 SP No.2
WEBS 2x3 SPF No.2 *Except* 9-10: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Sheathed, except end verticals, and 2-0-0 oc purlins (4-4-13 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-10, 4-14, 6-14

REACTIONS. (size) 10=Mechanical, 2=0-3-8, 13=0-3-8
Max Horz 2=254(LC 5)
Max Uplift 10=-199(LC 9), 2=-197(LC 8)
Max Grav 10=1211(LC 2), 2=1489(LC 2), 13=577(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2556/310, 3-4=-2014/275, 4-5=-1386/229, 5-6=-1435/260, 6-7=-1578/213, 7-8=-1611/216
BOT CHORD 2-17=-386/2178, 16-17=-386/2178, 14-16=-234/1725, 13-14=-281/0, 12-13=-281/0, 11-12=-337/36, 10-11=-226/998
WEBS 4-16=-32/510, 5-14=-75/821, 11-14=-257/1982, 6-11=-413/105, 8-11=-77/907, 8-10=-1378/285, 3-16=-544/177, 3-17=0/252, 4-14=-746/199, 6-14=-709/211

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=199, 2=197.
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.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A9	Roof Special	2	1	I58712445
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:52 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

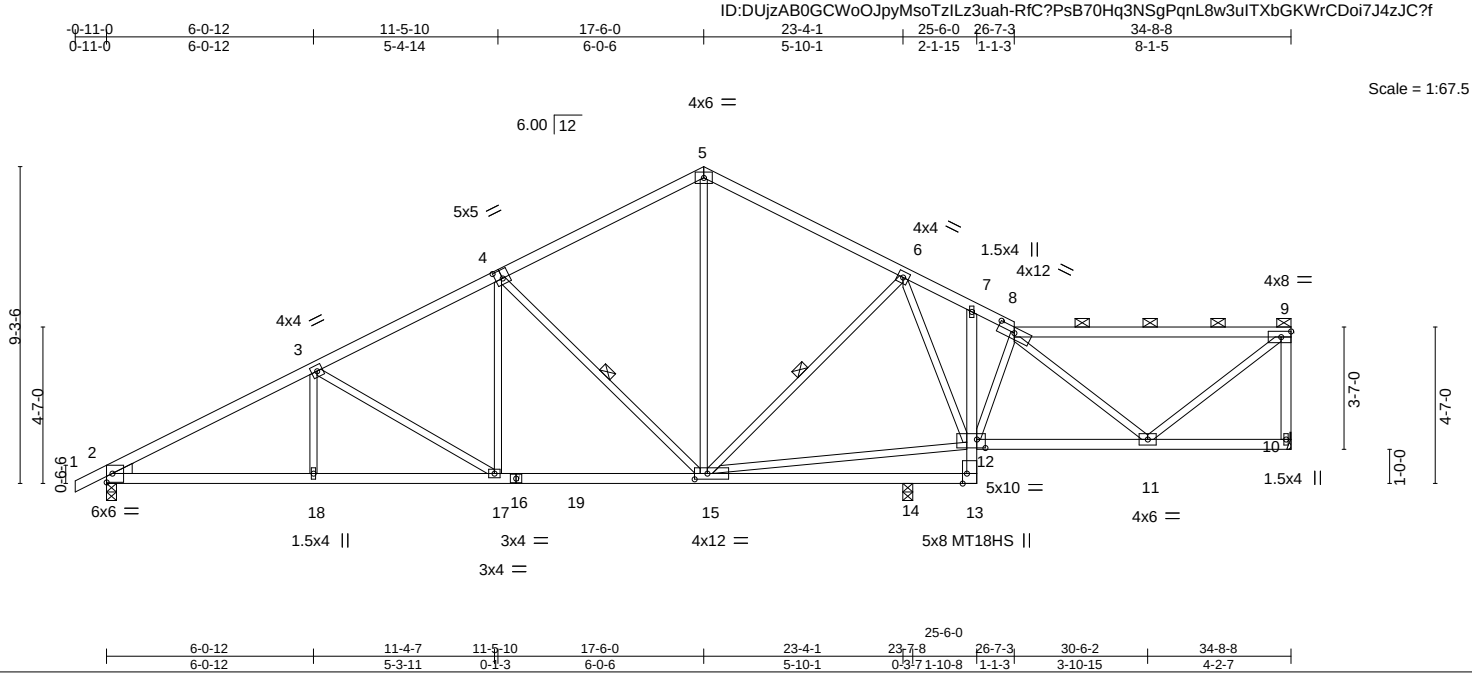

Plate Offsets (X,Y)-- [2:Edge,0-3-2], [4:0-2-8,0-3-0], [8:0-6-0,0-1-14], [12:0-3-0,0-3-0], [13:0-3-8,Edge], [15:0-4-8,0-2-0]

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	0.98	Vert(LL)	-0.21	15-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.37	15-17	>766	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 176 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E *Except* 5-8,1-4: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 13-16: 2x4 SP 1650F 1.5E
WEBS 2x3 SPF No.2 *Except* 9-10: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed or 3-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-12 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-15, 6-15

REACTIONS. (size) 10=Mechanical, 2=0-3-8, 14=0-3-8
Max Horz 2=217(LC 5)
Max Uplift 10=-182(LC 9), 2=-196(LC 8), 14=-3(LC 9)
Max Grav 10=1176(LC 2), 2=1472(LC 2), 14=629(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2521/307, 3-4=-1978/272, 4-5=-1349/226, 5-6=-1383/259, 6-7=-1856/273, 7-8=-2070/318, 8-9=-1141/112, 9-10=-1131/196
BOT CHORD 2-18=-379/2147, 17-18=-379/2147, 15-17=-227/1693, 12-13=-379/45, 7-12=-111/318, 11-12=-337/1974
WEBS 4-17=-33/513, 5-15=-76/803, 6-12=-44/348, 8-12=-766/206, 8-11=-1139/240, 3-17=-545/177, 3-18=0/252, 4-15=-747/200, 6-15=-633/238, 12-15=-252/1773, 9-11=-140/1392

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 10=182, 2=196.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A10	Roof Special	2	1	I58712446
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:04 2023 Page 1
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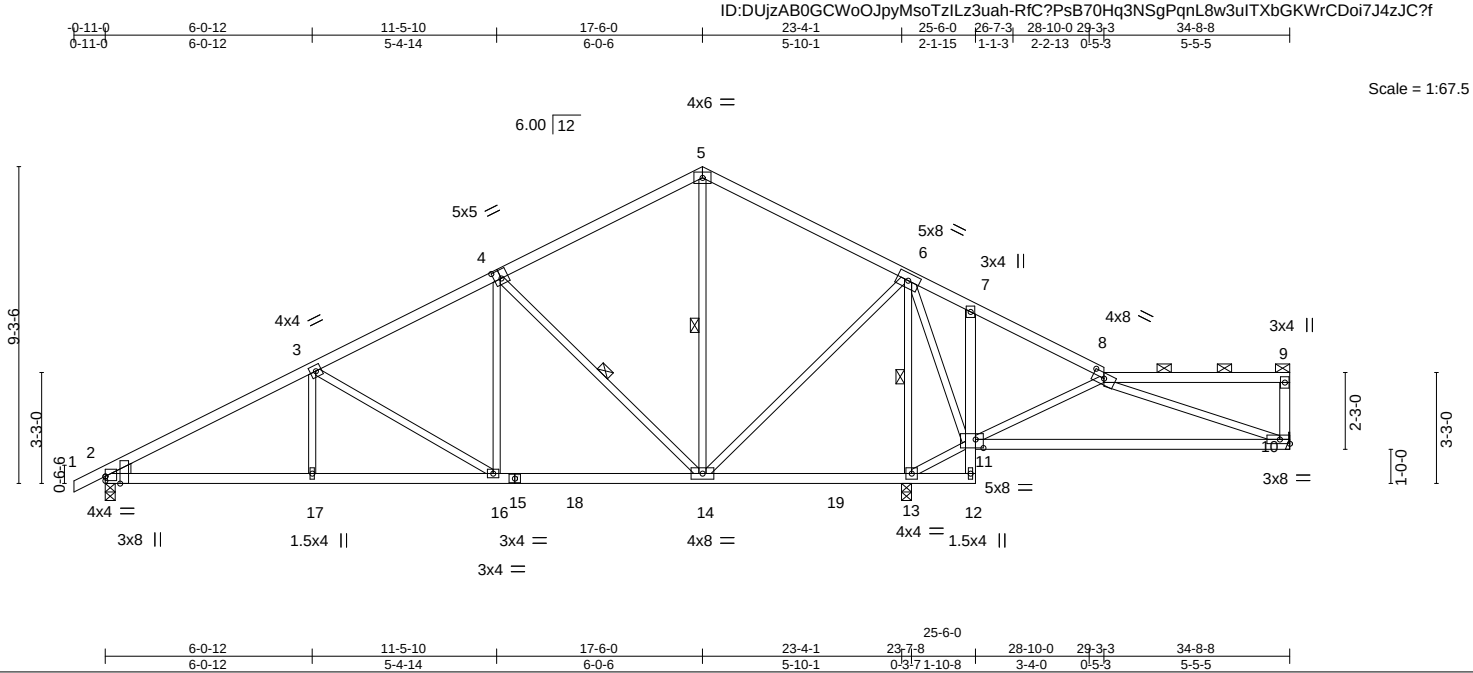


Plate Offsets (X,Y)-- [2:0-0-0,0-1-8], [2:0-2-8,Edge], [4:0-2-8,0-3-0], [8:0-4-0,0-1-14], [11:0-2-12,0-3-0]

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	0.89	Vert(LL)	-0.22	10-11	>592	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.45	10-11	>294	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 171 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x3 SPF No.2 *Except*
9-10: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Sheathed or 4-1-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-14, 4-14, 6-13

REACTIONS. (size) 10=Mechanical, 2=0-3-8, 13=0-3-8
Max Horz 2=189(LC 8)
Max Uplift 10=-38(LC 9), 2=-148(LC 8), 13=-203(LC 9)
Max Grav 10=306(LC 22), 2=1041(LC 23), 13=2015(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1632/207, 3-4=-1060/169, 4-5=-441/125, 5-6=-469/156, 6-7=-39/485, 7-8=-86/448
BOT CHORD 2-17=-287/1409, 16-17=-287/1409, 14-16=-131/911, 13-14=-422/88
WEBS 4-16=-33/507, 8-11=-423/163, 11-13=-412/161, 8-10=-83/292, 3-16=-582/183, 3-17=0/257, 4-14=-739/200, 6-14=-108/1082, 6-13=-1590/185

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 10, 148 lb uplift at joint 2 and 203 lb uplift at joint 13.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A11	Roof Special	2	1	I58712447 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:06 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

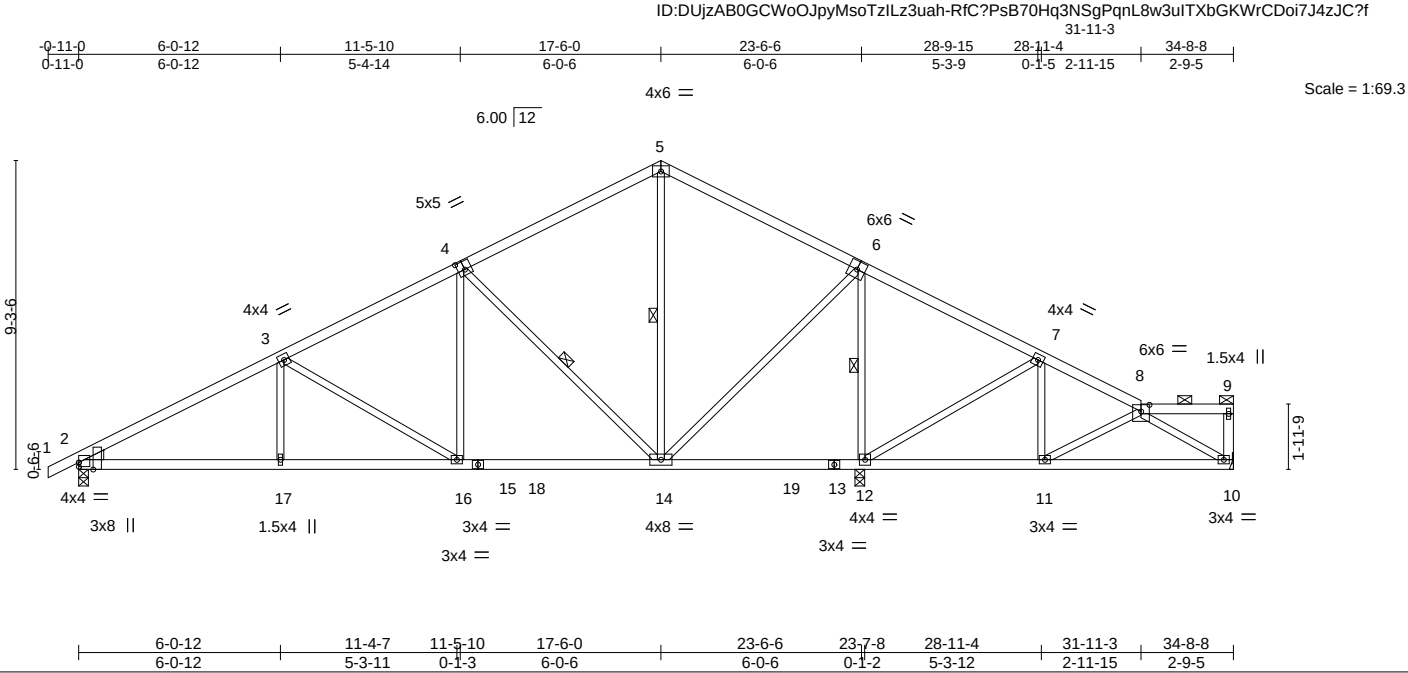


Plate Offsets (X,Y)-- [2:0-0-0,0-1-8], [2:0-2-8,Edge], [4:0-2-8,0-3-0], [8:0-3-0,0-2-7]

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	0.89	Vert(LL)	-0.08	14-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.14	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 163 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x3 SPF No.2 *Except*
9-10: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Sheathed or 4-0-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-12, 5-14, 4-14

REACTIONS. (size) 10=Mechanical, 2=0-3-8, 12=0-3-8
Max Horz 2=166(LC 8)
Max Uplift 10=-57(LC 9), 2=-150(LC 8), 12=-170(LC 9)
Max Grav 10=366(LC 22), 2=1054(LC 2), 12=1973(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1660/212, 3-4=-1088/173, 4-5=-473/134, 5-6=-473/158, 6-7=-22/496, 7-8=-312/112
BOT CHORD 2-17=-268/1437, 16-17=-268/1437, 14-16=-111/939, 12-14=-406/108, 11-12=-80/269, 10-11=-81/355
WEBS 6-14=-110/1100, 6-12=-1439/188, 7-12=-611/165, 7-11=0/262, 8-10=-387/87, 4-14=-737/199, 4-16=-33/506, 3-16=-583/183, 3-17=0/257

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 10, 150 lb uplift at joint 2 and 170 lb uplift at joint 12.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A12	Common Supported Gable	2	1	I58712448

Job Reference (optional)

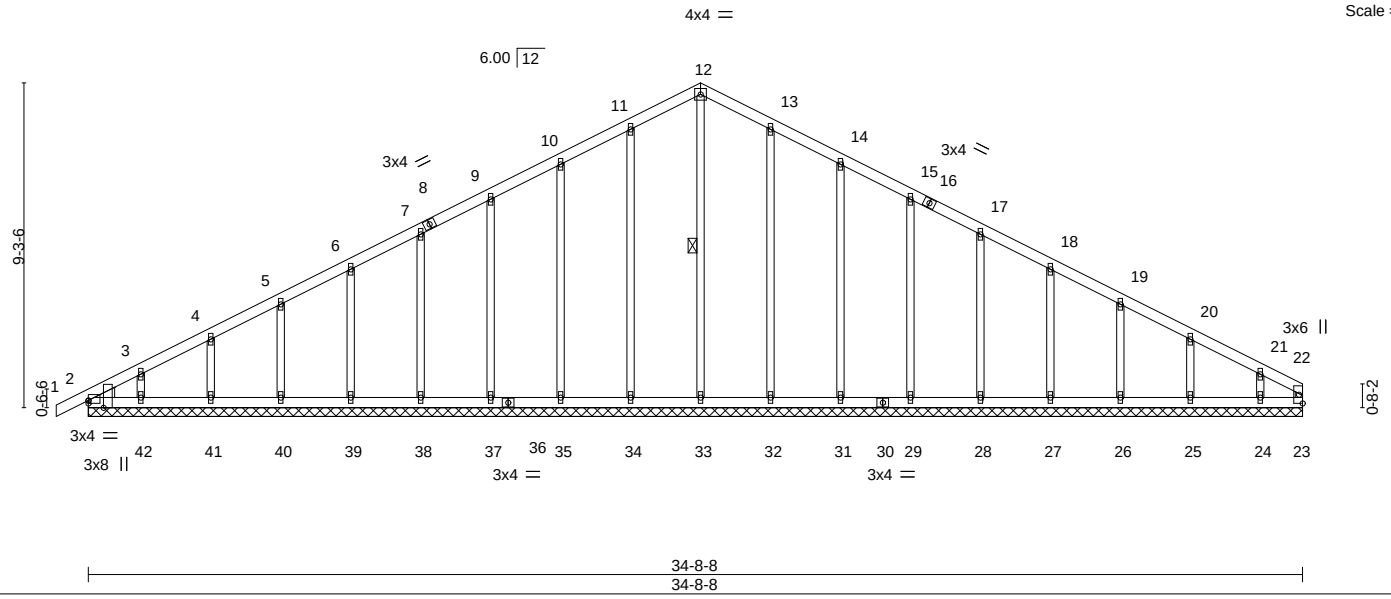
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:09 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0 17-6-0 34-8-8

0-11-0 17-6-0 17-2-8

Scale = 1:65.9



34-8-8

34-8-8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	1	n/r	90		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.01	23	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 174 lb	FT = 20%

LUMBER-

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

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.
WEBS	1 Row at midpt 12-33

REACTIONS. All bearings 34-8-8.

(lb) - Max Horz 2=162(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25 except 24=-103(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 23, 2, 33, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25, 24

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25 except (jt=lb) 24=103.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A13	Common Supported Gable	2	1	I58712449

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:11 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0 17-6-0 35-0-0

0-11-0 17-6-0 17-6-0

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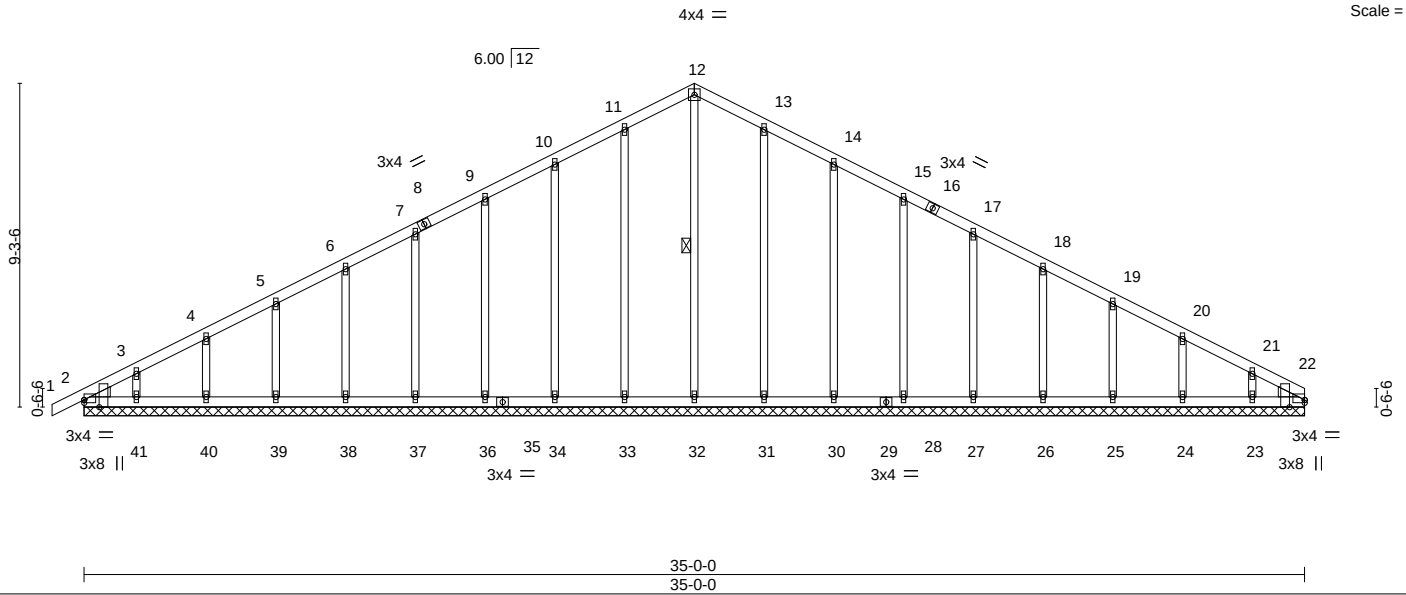

Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [2:0-2-8,Edge], [22:0-0-0,0-1-0], [22:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	1	n/r	90		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 176 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x3 SPF No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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 12-32

REACTIONS. All bearings 35-0-0.

(lb) - Max Horz 2=160(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 34, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23
Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23, 22

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 33, 34, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A14	Common	6	1	I58712450
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:13 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0	5-11-8	6-2-1	11-5-10	17-6-0	23-6-6	28-9-15	28-11-4	35-0-0	35-11-0
0-11-0	5-11-8	0-2-9	5-3-9	6-0-6	6-0-6	5-3-9	0-1-5	6-0-12	0-11-0

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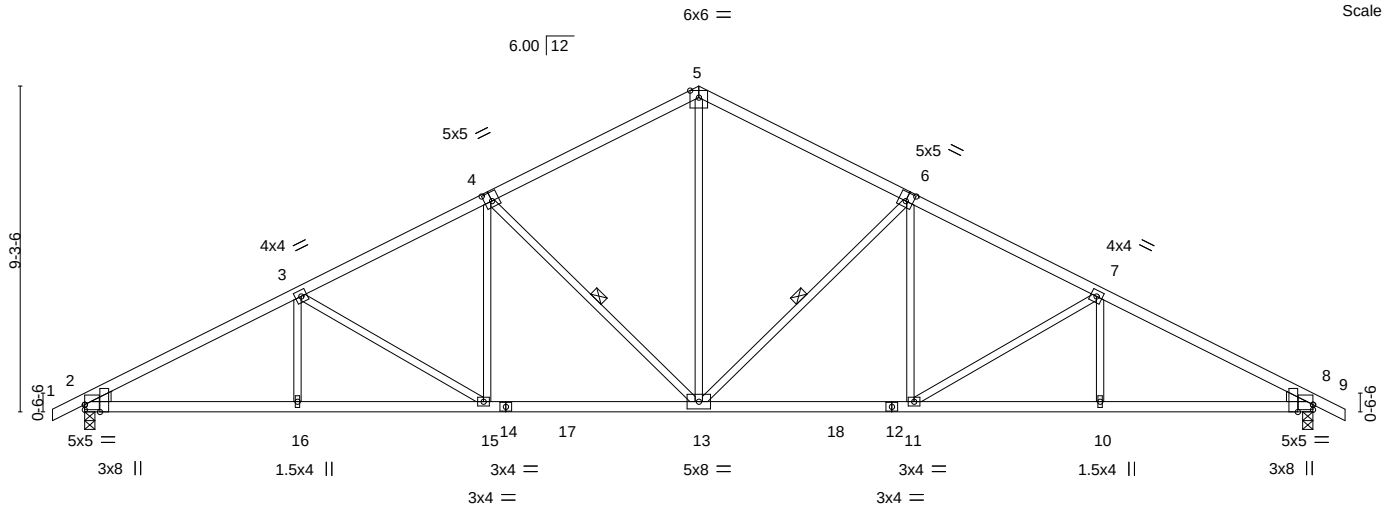


5-11-8	11-5-10	17-6-0	23-6-6	28-11-4	35-0-0
5-11-8	5-6-2	6-0-6	6-0-6	5-4-14	6-0-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.20	13-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.35	13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.14	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 160 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 1650F 1.5E *Except* 1-4,6-9: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x3 SPF No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed or 2-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-15 oc bracing.
WEBS 1 Row at midpt 6-13, 4-13

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=157(LC 8)
Max Uplift 2=-196(LC 8), 8=-196(LC 9)
Max Grav 2=1699(LC 2), 8=1699(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2991/308, 3-4=-2458/272, 4-5=-1870/259, 5-6=-1870/259, 6-7=-2458/272, 7-8=-2991/309
BOT CHORD 2-16=-343/2559, 15-16=-343/2559, 13-15=-191/2122, 11-13=-67/2122, 10-11=-187/2559, 8-10=-187/2559
WEBS 6-13=-711/197, 6-11=-31/477, 5-13=-72/1229, 7-11=-530/178, 7-10=0/254, 4-13=-711/197, 4-15=-31/477, 3-15=-530/178, 3-16=0/254

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=196, 8=196.
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.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

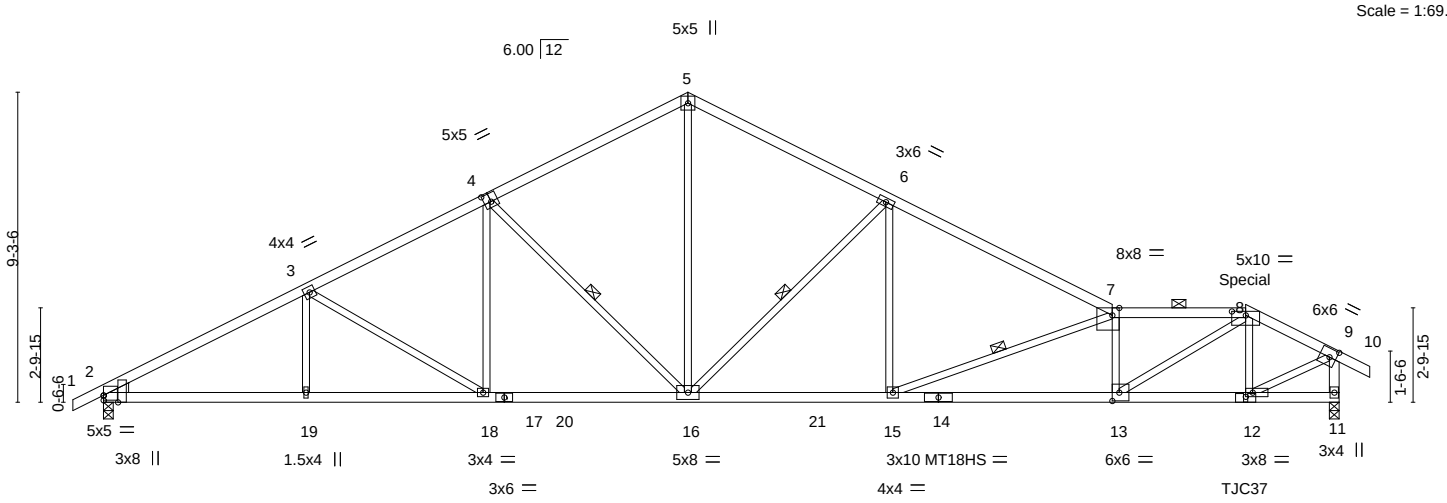
June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A15	Roof Special Girder	2	1	I58712451 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:15 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0	6-0-12	6-2-1	11-5-10	17-6-0	23-6-6	25-11-10	28-11-4	30-2-7	34-2-7	37-0-0	37-11-0
0-11-0	6-0-12	0-1-5	5-3-9	6-0-6	6-0-6	2-5-4	2-11-9	1-3-4	3-11-15	2-9-9	0-11-0

Scale = 1:69.0



6-0-12	11-5-10	17-6-0	23-6-6	25-11-10	28-11-4	30-2-7	34-2-7	37-0-0
6-0-12	5-4-14	6-0-6	6-0-6	23-7-9 0-1-3 2-4-1	2-11-9	1-3-4	3-11-15	2-9-9

Plate Offsets (X,Y)-- [2:0-2-8,Edge], [2:0-0-0,0-1-12], [4:0-2-8,0-3-0], [7:0-2-8,Edge], [8:0-5-0,0-1-7], [9:0-2-7,0-3-0], [12:0-2-8,0-1-8], [13:0-2-8,0-3-0]

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	0.80	Vert(LL)	-0.27	13-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.49	13-15	>902	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 174 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP 1650F 1.5E *Except* 8-10,1-4: 2x4 SP No.2
BOT CHORD	2x4 SP 1650F 1.5E
WEBS	2x3 SPF No.2 *Except* 9-11: 2x4 SP No.2
WEDGE	Left: 2x4 SP No.2

BRACING-

TOP CHORD	Sheathed or 2-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-10 max.): 7-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-16, 7-15, 4-16

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=156(LC 33)
Max Uplift 11=-233(LC 9), 2=-202(LC 8)
Max Grav 11=1789(LC 2), 2=1794(LC 2)

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

TOP CHORD	2-3=-3186/321, 3-4=-2659/285, 4-5=-2070/282, 5-6=-2103/277, 6-7=-2933/318, 7-8=-3646/417, 8-9=-1852/236, 9-11=-1745/246
BOT CHORD	2-19=-353/2730, 18-19=-353/2730, 16-18=-201/2303, 15-16=-157/2550, 13-15=-374/3692, 12-13=-184/1661
WEBS	6-16=-1048/260, 6-15=-5/717, 7-15=-1225/232, 8-13=-233/2381, 5-16=-126/1456, 9-12=-185/1780, 7-13=-1153/202, 4-16=-713/197, 4-18=-30/478, 3-18=-523/178, 8-12=-704/100, 3-19=0/253

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=233, 2=202.
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) Use Simpson Strong-Tie TJC37 (4 nail 90-150) or equivalent at 34-2-7 from the left end to connect truss(es) to front face of bottom chord, skewed 53.1 deg.to the right, sloping 0.0 deg. down.
11) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

June 5,2023

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 84 lb down and 50 lb up at 34-2-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

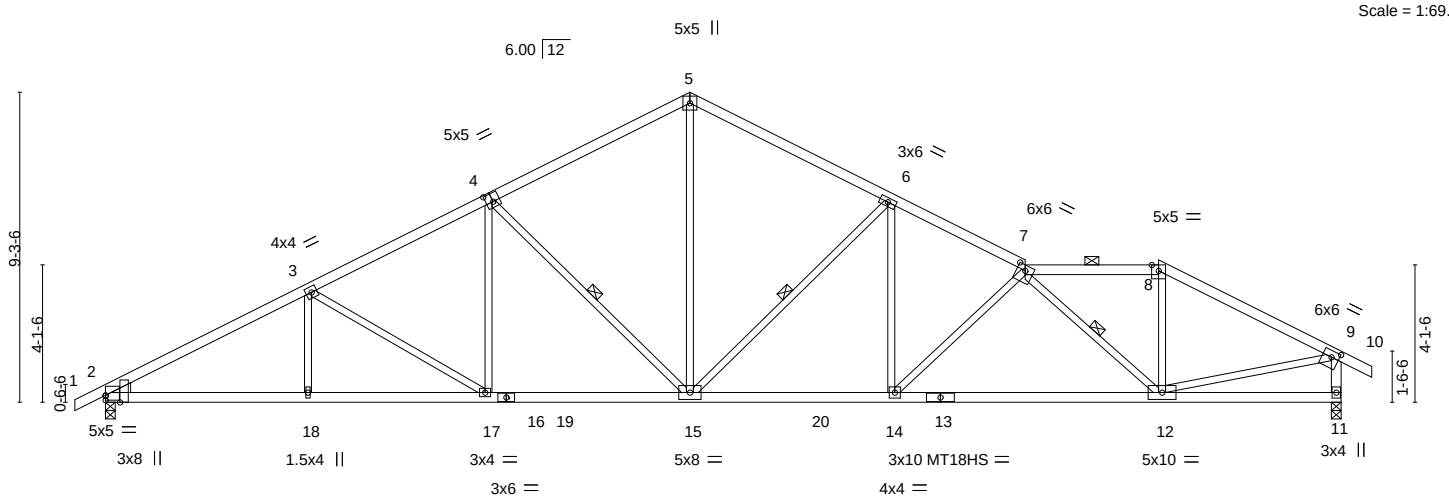
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-70, 5-7=-70, 7-8=-70, 8-9=-70, 9-10=-70, 2-11=-20
   Concentrated Loads (lb)
   Vert: 12=2(F)

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A16	Roof Special	2	1	I58712452
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:17 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0	6-0-12	11-5-10	17-6-0	23-6-6	27-6-7	31-6-7	37-0-0	37-11-0
0-11-0	6-0-12	5-4-14	6-0-6	6-0-6	4-0-2	3-11-15	5-5-9	0-11-0

Scale = 1:69.0



6-0-12	11-4-7	11-5-10	17-6-0	22-6-4	23-6-6	27-6-7	31-6-7	37-0-0
6-0-12	5-3-11	0-1-3	6-0-6	5-0-4	1-0-2	4-0-2	3-11-15	5-5-9

Plate Offsets (X,Y)-- [2:0-2-8,Edge], [2:0-0-0,0-1-12], [4:0-2-8,0-3-0], [7:0-3-0,0-1-14], [9:0-2-12,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.25	12-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.47	12-14	>938	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.13	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 175 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 4-5: 2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP 1650F 1.5E
WEBS	2x3 SPF No.2 *Except* 9-11: 2x4 SP No.2
WEDGE	Left: 2x4 SP No.2

BRACING-

TOP CHORD	Sheathed or 2-8-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-15 max.): 7-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-15, 4-15, 7-12

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=156(LC 12)
Max Uplift 11=-217(LC 9), 2=-200(LC 8)
Max Grav 11=1790(LC 2), 2=1794(LC 2)

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

TOP CHORD	2-3=-3185/316, 3-4=-2658/280, 4-5=-2069/280, 5-6=-2095/270, 6-7=-2882/320, 7-8=-2043/270, 8-9=-2370/261, 9-11=-1716/237
BOT CHORD	2-18=-349/2729, 17-18=-349/2729, 15-17=-197/2302, 14-15=-142/2537, 12-14=-272/3072
WEBS	6-15=-1030/241, 6-14=-38/809, 5-15=-114/1437, 9-12=-109/1981, 4-15=-714/196, 7-12=-1418/144, 8-12=0/744, 4-17=-29/478, 3-17=-524/178, 3-18=0/253, 7-14=-746/182

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=217, 2=200.
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.

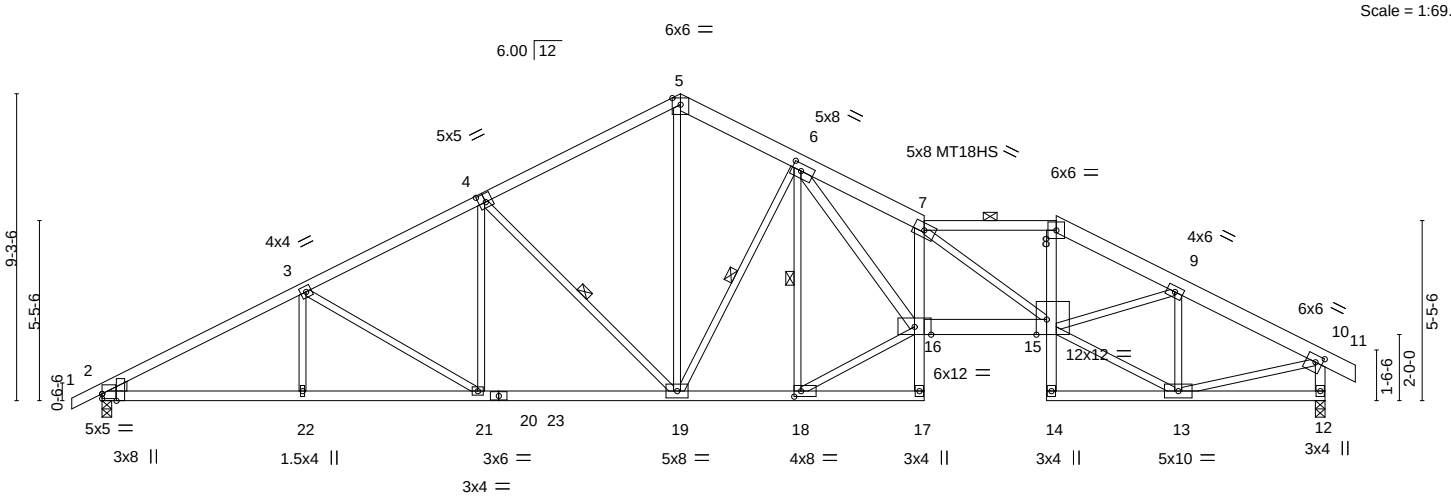
June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A17	Roof Special	2	1	I58712453
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:19 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0	6-0-13	11-5-10	17-6-0	23-4-1	24-10-7	28-10-7	32-6-12	37-0-0	37-11-0
0-11-0	6-0-13	5-4-14	6-0-6	5-10-1	1-6-6	3-11-15	3-8-5	4-5-4	0-11-0

Scale = 1:69.7



6-0-13	11-5-10	17-6-0	24-10-7	28-10-7	32-6-12	37-0-0
6-0-13	5-4-14	6-0-6	7-4-7	3-11-15	3-8-5	4-5-4

Plate Offsets (X,Y)-- [2:0-0-0,0-1-12], [2:0-2-8,Edge], [4:0-2-8,0-3-0], [6:0-3-6,0-2-8], [10:0-2-8,0-2-8], [15:0-3-12,Edge], [18:0-2-8,0-2-0]

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	0.74	Vert(LL)	-0.31	17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.55	17	>804	180	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.27	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 208 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
4-5: 2x4 SP 1650F 1.5E, 7-8,1-4: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-20,17-20: 2x4 SP 1650F 1.5E, 15-16: 2x6 SPF No.2
WEBS 2x3 SPF No.2 *Except*
6-16,10-12: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed or 2-8-9 oc purlins, except end verticals, and 2-0-0 oc purlins (2-9-7 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-19, 6-18, 6-19

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=155(LC 8)
Max Uplift 2=-200(LC 8), 12=-217(LC 9)
Max Grav 2=1780(LC 2), 12=1770(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3158/316, 3-4=-2630/280, 4-5=-2050/279, 5-6=-2028/275, 6-7=-4792/535, 7-8=-3493/400, 8-9=-3820/415, 9-10=-2229/265, 10-12=-1688/238
BOT CHORD 2-22=-348/2704, 21-22=-348/2704, 19-21=-196/2276, 18-19=-72/2177, 7-16=-1630/297, 8-15=-79/1430, 15-16=-292/4377
WEBS 3-22=0/253, 3-21=-524/177, 4-21=-29/480, 4-19=-696/190, 5-19=-153/1460, 6-18=-1035/77, 6-16=-352/3523, 7-15=-1133/115, 9-15=-58/1547, 9-13=-1390/201, 10-13=-166/1849, 13-15=-201/2111, 16-18=-77/2341, 6-19=-886/227

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) The Fabrication Tolerance at joint 16 = 8%
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=200, 12=217.
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.

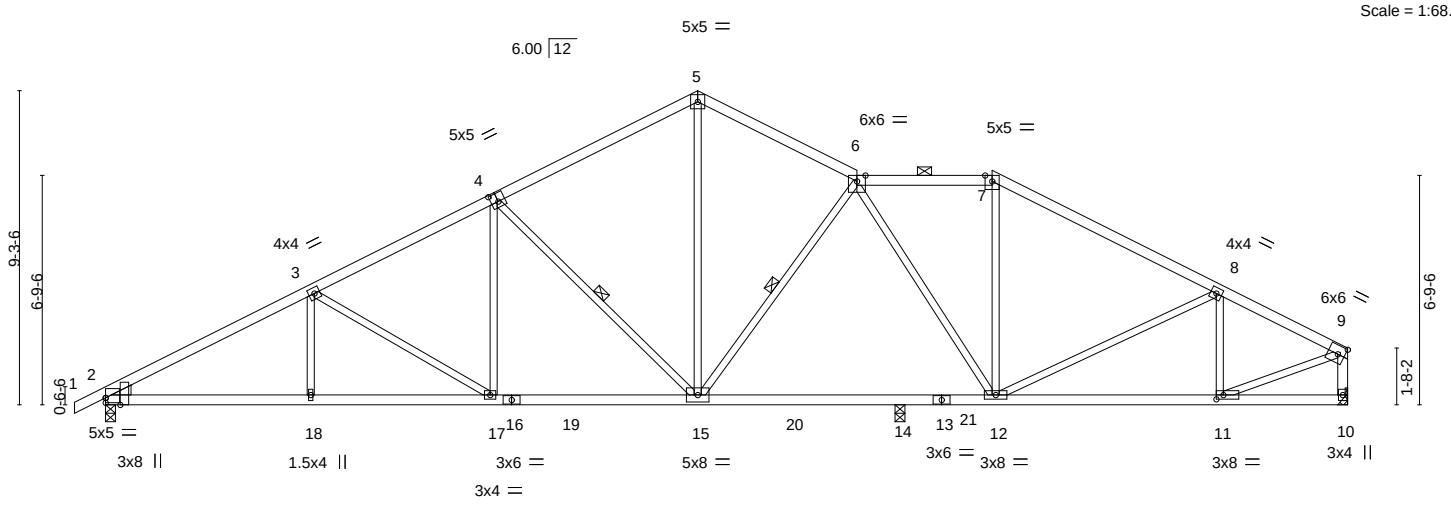
June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A18	Roof Special	2	1	I58712454 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:21 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0	5-11-8	6-2-1	11-5-10	17-6-0	22-2-7	26-2-7	32-11-3	36-8-8
0-11-0	5-11-8	0-2-9	5-3-9	6-0-6	4-8-7	3-11-15	6-8-12	3-9-5

Scale = 1:68.1



5-11-8	11-5-10	17-6-0	22-2-7	23-7-8	26-2-7	32-11-3	36-8-8
5-11-8	5-6-2	6-0-6	4-8-7	1-5-1	2-6-15	6-8-12	3-9-5

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.20	15-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.36	11-12	>434	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 174 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 4-5,7-9: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2 *Except* 10-13: 2x4 SP 1650F 1.5E
WEBS 2x3 SPF No.2 *Except* 9-10: 2x4 SP No.2
WEDGE Left: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed or 2-10-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-14 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.
WEBS 1 Row at midpt 4-15, 6-15

REACTIONS. (size) 2=0-3-8, 10=Mechanical, 14=0-3-8
Max Horz 2=165(LC 8)
Max Uplift 2=-206(LC 8), 10=-204(LC 9)
Max Grav 2=1663(LC 2), 10=1501(LC 2), 14=352(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2914/329, 3-4=-2381/294, 4-5=-1779/287, 5-6=-1789/284, 6-7=-1597/319, 7-8=-1879/306, 8-9=-1815/259, 9-10=-1486/215
BOT CHORD 2-18=-370/2492, 17-18=-370/2492, 15-17=-219/2053, 14-15=-151/1909, 12-14=-151/1909, 11-12=-221/1601
WEBS 4-15=-723/199, 4-17=-33/490, 5-15=-135/1217, 3-17=-531/176, 6-12=-588/117, 7-12=-22/472, 8-11=-437/155, 9-11=-226/1705, 3-18=0/253, 6-15=-692/255

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=206, 10=204.
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.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

June 5,2023

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/20/2024 9:20:36

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A19	Roof Special	2	1	I58712455
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:23 2023 Page 1

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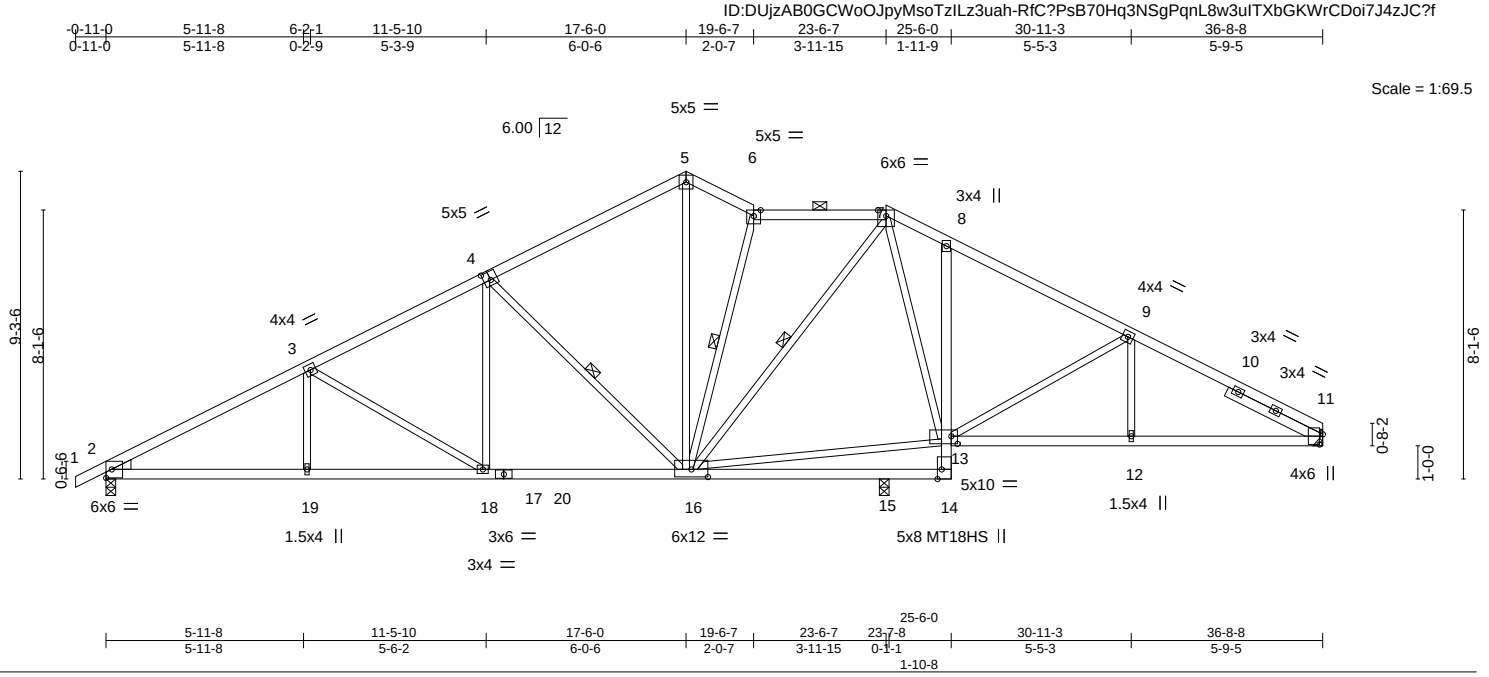

Plate Offsets (X,Y)-- [2:Edge,0-3-2], [4:0-2-8,0-3-0], [11:0-3-11,0-1-3], [13:0-2-4,0-2-12], [14:0-3-8,Edge], [16:0-6-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.22	16-18	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.39	16-18	>715	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 192 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP 1650F 1.5E *Except*
2-17,11-13: 2x4 SP No.2
WEBS 2x3 SPF No.2
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-2-6

BRACING-

TOP CHORD Sheathed or 3-0-12 oc purlins, except
2-0-0 oc purlins (4-4-12 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-16, 6-16, 7-16

REACTIONS. (size) 11=Mechanical, 2=0-3-8, 15=0-3-8
Max Horz 2=183(LC 8)
Max Uplift 11=-193(LC 9), 2=-202(LC 8)
Max Grav 11=1279(LC 2), 2=1535(LC 2), 15=662(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2650/319, 3-4=-2112/283, 4-5=-1482/276, 5-6=-1462/283, 6-7=-1483/277, 7-8=-1622/388, 8-9=-1710/321, 9-11=-2179/342
BOT CHORD 2-19=-379/2261, 18-19=-379/2261, 16-18=-227/1813, 15-16=-296/17, 14-15=-296/17, 13-14=-408/43, 12-13=-219/1842, 11-12=-219/1842
WEBS 4-16=-743/198, 4-18=-32/512, 3-18=-540/177, 5-16=-173/1008, 7-13=-154/405, 9-13=-479/150, 3-19=0/252, 6-16=-824/207, 7-16=-82/336, 13-16=-84/1649

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=193, 2=202.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A20	Hip	2	1	I58712456
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:33 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0	5-11-8	6-2-1	11-5-10	11-7-15	18-1-9	20-10-7	25-6-0	30-11-3	36-8-8
0-11-0	5-11-8	0-2-9	5-3-9	0-2-5	6-5-10	2-8-14	4-7-9	5-5-3	5-9-5

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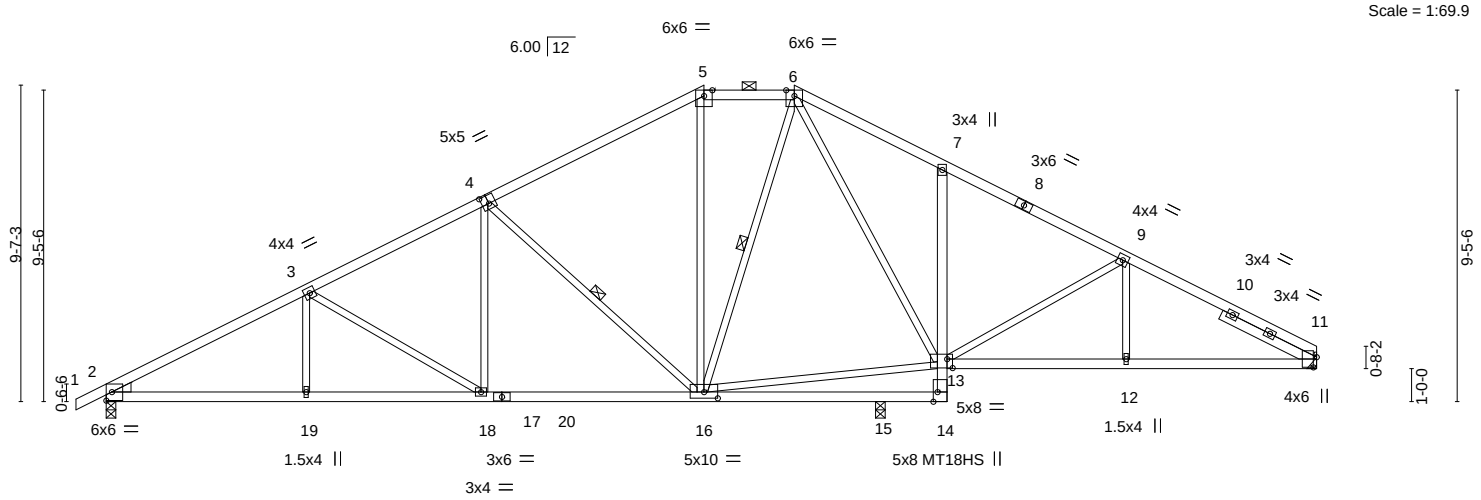

5-11-8	11-5-10	18-1-9	20-10-7	23-7-8	25-6-0	30-11-3	36-8-8
5-11-8	5-6-2	6-7-14	2-8-14	2-9-1	1-10-8	5-5-3	5-9-5

Plate Offsets (X,Y)-- [2:Edge,0-3-2], [4:0-2-8,0-3-0], [11:0-3-11,0-1-3], [13:0-2-0,0-3-4], [14:0-3-8,Edge], [16:0-5-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.22	16-18	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.39	16-18	>714	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 187 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 4-5,1-4: 2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP 1650F 1.5E *Except* 2-17,11-13: 2x4 SP No.2

WEBS 2x3 SPF No.2

WEDGE Left: 2x4 SP No.2

SLIDER Right 2x4 SP No.2 3-2-6

BRACING-

TOP CHORD Sheathed or 2-10-4 oc purlins, except 2-0-0 oc purlins (4-10-1 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 1 Row at midpt 4-16, 6-16

REACTIONS. (size) 2=0-3-8, 11=Mechanical, 15=0-3-8
Max Horz 2=187(LC 8)
Max Uplift 2=-203(LC 8), 11=-162(LC 9), 15=-2(LC 8)
Max Grav 2=1546(LC 2), 11=1295(LC 2), 15=638(LC 2)

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

TOP CHORD 2-3=-2672/321, 3-4=-2136/286, 4-5=-1472/236, 5-6=-1267/266, 6-7=-1734/377, 7-9=-1753/268, 9-11=-2227/287

BOT CHORD 2-19=-385/2280, 18-19=-385/2280, 16-18=-234/1834, 15-16=-279/15, 14-15=-279/15, 13-14=-391/42, 7-13=-407/211, 12-13=-173/1885, 11-12=-173/1885

WEBS 4-16=-763/206, 4-18=-29/517, 5-16=-27/318, 6-16=-148/307, 13-16=-71/1516, 6-13=-236/611, 9-13=-464/147, 3-18=-532/177

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb) 2=203, 11=162.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A21	Roof Special	4	1	I58712457
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:35 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0	5-11-9	11-5-10	11-7-15	17-6-0	19-6-0	25-6-0	30-11-3	36-8-8
0-11-0	5-11-9	5-6-2	0-2-5	5-10-1	2-0-0	6-0-0	5-5-3	5-9-5

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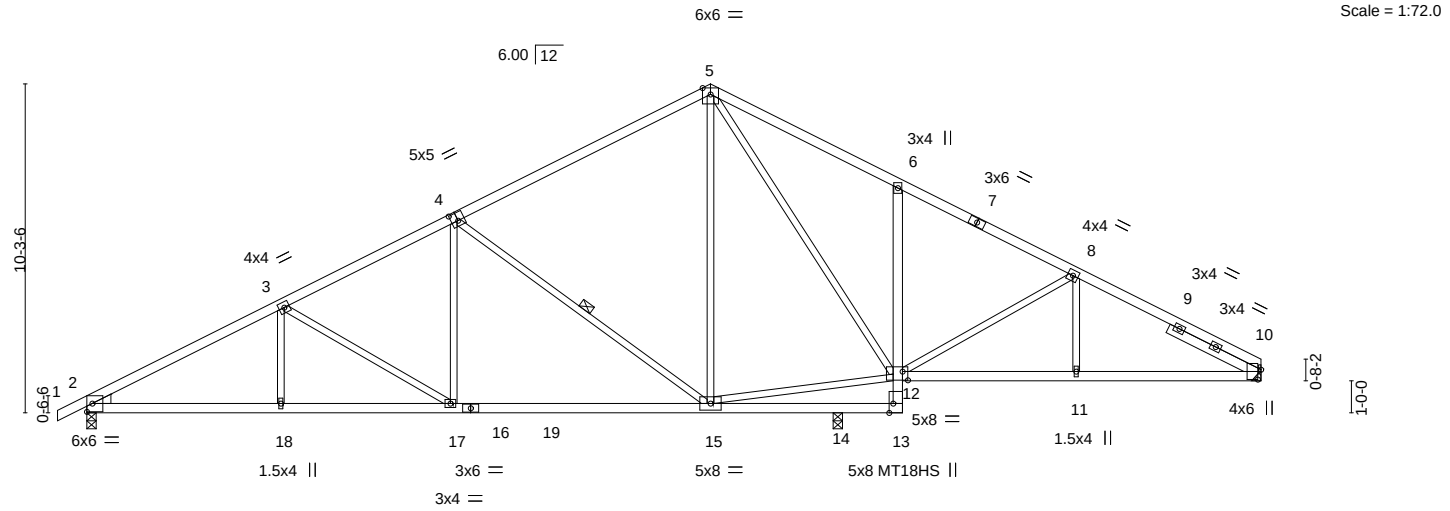


5-11-9	11-4-7	11-5-10	19-6-0	23-7-8	25-6-0	30-11-3	36-8-8
5-11-9	5-4-15	0-1-3	8-0-5	4-1-8	1-10-8	5-5-3	5-9-5

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.31	15-17	>914	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.56	15-17	>501	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 182 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except*
13-16: 2x4 SP 1650F 1.5E
WEBS 2x3 SPF No.2
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-2-6

BRACING-

TOP CHORD Sheathed.
BOT CHORD Rigid ceiling directly applied or 2-4-4 oc bracing.
WEBS 1 Row at midpt 4-15

REACTIONS. (size) 2=0-3-8, 10=Mechanical, 14=0-3-8
Max Horz 2=200(LC 8)
Max Uplift 2=-195(LC 8), 10=-146(LC 9), 14=-48(LC 8)
Max Grav 2=1533(LC 2), 10=1267(LC 2), 14=687(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2645/305, 3-4=-2111/267, 4-5=-1313/228, 5-6=-1674/366, 6-8=-1678/233, 8-10=-2170/253
BOT CHORD 2-18=-383/2264, 17-18=-383/2264, 15-17=-230/1817, 14-15=-324/17, 13-14=-324/17, 12-13=-434/61, 6-12=-458/232, 11-12=-142/1836, 10-11=-142/1836
WEBS 3-17=-533/179, 5-15=-18/456, 12-15=-59/1453, 5-12=-243/699, 8-12=-464/147, 4-17=-21/545, 4-15=-879/235

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; cantilever left and right exposed ; end vertical left and right exposed; 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) 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) 14 except (jt=lb) 2=195, 10=146.
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.

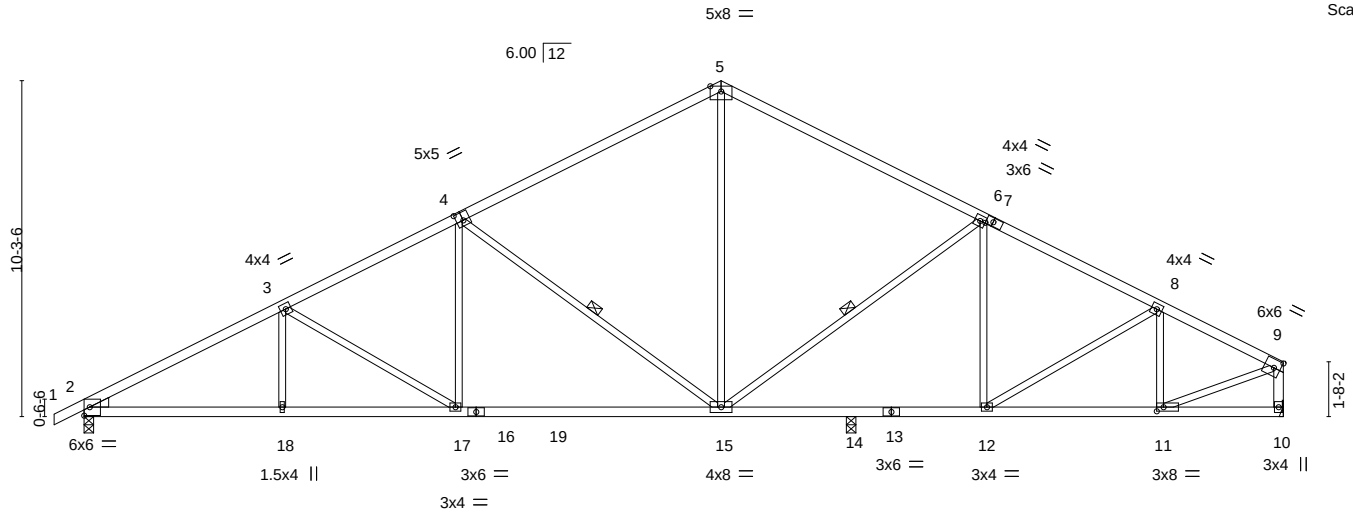
June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A22	Common	2	1	I58712458
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:36 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0	5-11-9	11-5-10	19-6-0	27-6-6	33-0-8	36-8-8
0-11-0	5-11-9	5-6-2	8-0-5	8-0-6	5-6-2	3-8-1

Scale = 1:70.5



5-11-9	11-4-7	11-5-10	19-6-0	23-7-8	27-4-4	27-6-6	33-0-8	36-8-8
5-11-9	5-4-15	0-1-3	8-0-5	4-1-8	3-8-12	0-2-2	5-6-2	3-8-1

Plate Offsets (X,Y)-- [2:Edge,0-3-2], [4:0-2-8,0-3-0], [7:0-2-9,0-1-8], [11:0-2-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.28	15-17	>995	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.51	15-17	>546	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 171 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP 2400F 2.0E *Except*
	1-4,7-9: 2x4 SP No.2
BOT CHORD	2x4 SP 1650F 1.5E *Except*
	10-13: 2x4 SP No.2
WEBS	2x3 SPF No.2 *Except*
	9-10: 2x4 SP No.2
WEDGE	
Left: 2x4 SP No.2	

BRACING-

TOP CHORD	Sheathed, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-15, 6-15

REACTIONS. (size) 2=0-3-8, 10=Mechanical, 14=0-3-8
Max Horz 2=182(LC 12)
Max Uplift 2=-220(LC 8), 10=-187(LC 9)
Max Grav 2=1709(LC 2), 10=1591(LC 2), 14=216(LC 2)

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

TOP CHORD	2-3=-3009/358, 3-4=-2484/322, 4-5=-1708/279, 5-6=-1710/295, 6-8=-2058/276,
	8-9=-1882/232, 9-10=-1547/202
BOT CHORD	2-18=-412/2574, 17-18=-412/2574, 15-17=-261/2146, 14-15=-125/1774, 12-14=-125/1774,
	11-12=-191/1650
WEBS	3-17=-520/177, 5-15=-52/945, 4-17=-18/531, 4-15=-861/230, 6-15=-457/199,
	8-11=-485/126, 9-11=-188/1733

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
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) 2=220, 10=187.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	A23	Common Supported Gable	2	1	I58712459
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:39 2023 Page 1
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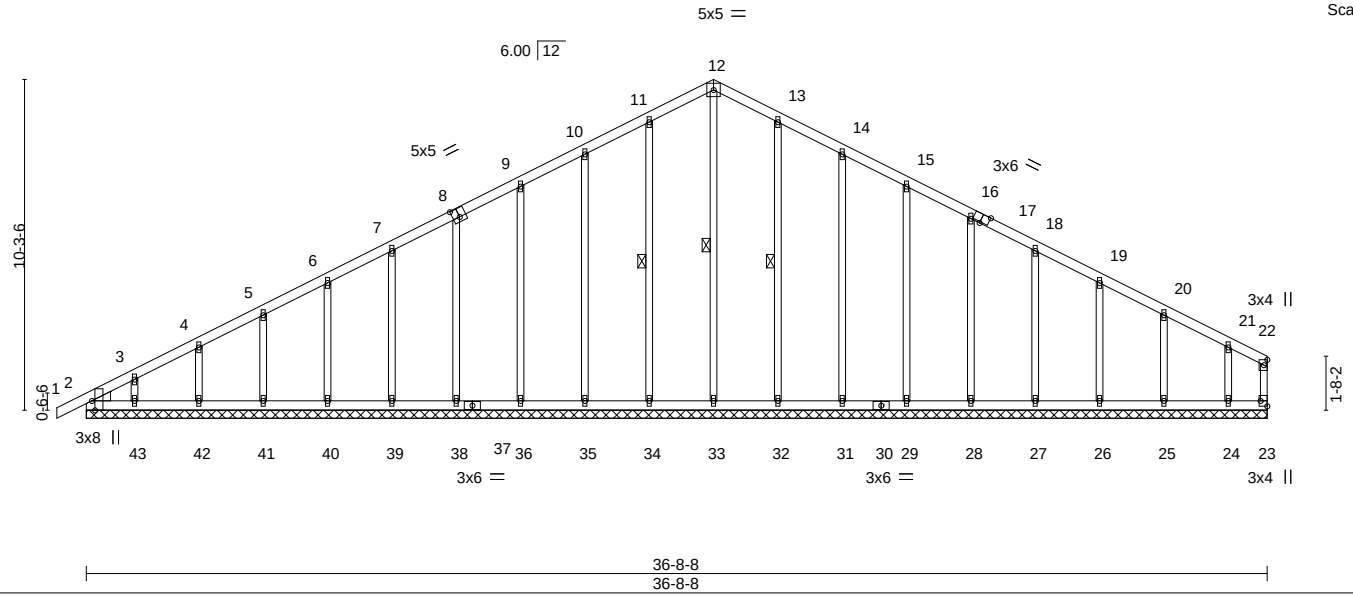
-0-11-0 19-6-0 36-8-8
0-11-0 19-6-0 17-2-8

Scale = 1:71.6



36-8-8
36-8-8

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [8:0-2-8,0-3-4], [17:0-3-0,Edge], [23:Edge,0-2-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	1	n/r	90		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.00	23	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 196 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2
WEDGE
Left: 2x4 SP No.2

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.
WEBS 1 Row at midpt 12-33, 11-34, 13-32

REACTIONS. All bearings 36-8-8.
(lb) - Max Horz 2=182(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 34, 35, 36, 38, 39, 40, 41, 42, 43, 32, 31, 29, 28, 27, 26, 25, 24, 2
Max Grav All reactions 250 lb or less at joint(s) 23, 33, 34, 35, 36, 38, 39, 40, 41, 42, 43, 32, 31, 29, 28, 27, 26, 25, 24, 2

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-10=-67/273, 10-11=-55/300, 11-12=-49/318, 12-13=-47/310, 13-14=-43/272

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 34, 35, 36, 38, 39, 40, 41, 42, 43, 32, 31, 29, 28, 27, 26, 25, 24, 2.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER
June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	B1	COMMON SUPPORTED GAB	3	1	I58712460

Job Reference (optional)

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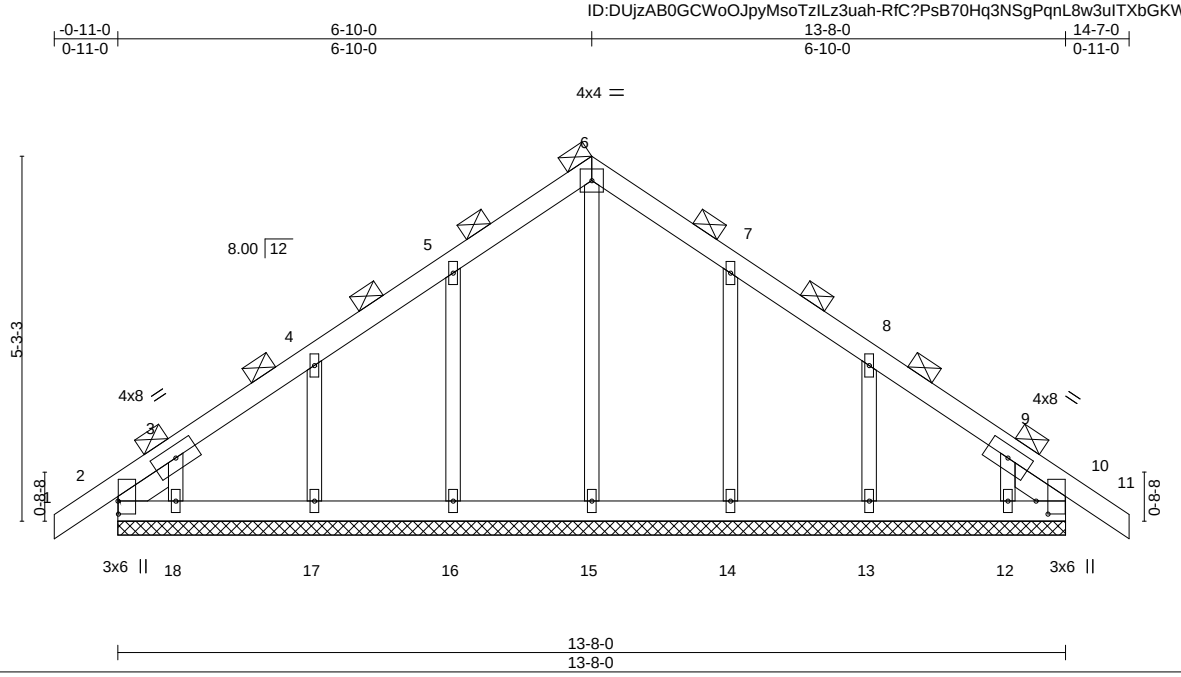

Plate Offsets (X,Y)-- [2:0-2-4,0-0-1], [10:0-2-4,0-2-1]

LOADING (psf)		SPACING- 5-0-0		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	11	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	11	n/r	90		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 65 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x3 SPF No.2
SLIDER	Left 2x4 SP No.2 0-10-15, Right 2x4 SP No.2 0-10-15

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-8-0.

(lb) - Max Horz 2=325(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 10 except 2=-148(LC 4), 16=-170(LC 8), 17=-168(LC 8), 18=-237(LC 8), 14=-167(LC 9), 13=-169(LC 9), 12=-210(LC 9)

Max Grav All reactions 250 lb or less at joint(s) except 2=388(LC 16), 10=340(LC 1), 15=372(LC 18), 16=485(LC 15), 17=470(LC 15), 18=363(LC 15), 14=482(LC 16), 13=471(LC 16), 12=332(LC 16)

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

TOP CHORD 2-3=-374/272, 3-4=-276/190, 5-6=-213/279, 6-7=-182/251, 9-10=-285/140

WEBS 6-15=-272/0, 5-16=-386/230, 4-17=-366/231, 3-18=-290/277, 7-14=-383/227, 8-13=-367/232, 9-12=-262/253

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=148, 16=170, 17=168, 18=237, 14=167, 13=169, 12=210.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	B2	GABLE	1	1	I58712461
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:55 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

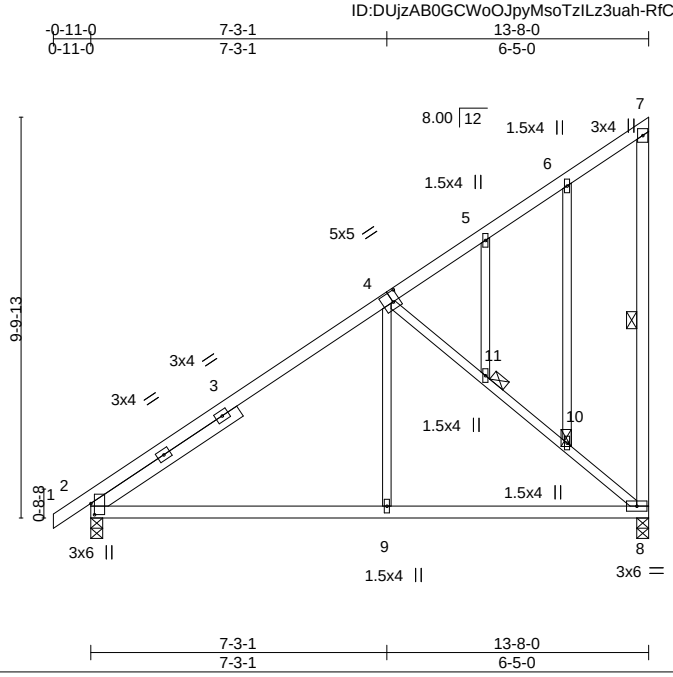

Plate Offsets (X,Y)-- [2:0-3-5,0-1-1], [4:0-2-0,0-3-0]

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	0.77	Vert(LL)	0.09	2-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.14	2-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 85 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	1-4: 2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP No.2
WEBS	2x3 SPF No.2 *Except*
	7-8: 2x4 SP No.2
OTHERS	2x3 SPF No.2
SLIDER	Left 2x4 SP No.2 4-4-0

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.
WEBS	1 Row at midpt 7-8
JOINTS	1 Brace at Jt(s): 10, 11

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=365(LC 5)
Max Uplift 8=-169(LC 8), 2=-59(LC 8)
Max Grav 8=652(LC 15), 2=675(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-694/8
BOT CHORD 2-9=-112/466, 8-9=-112/466
WEBS 4-9=0/313, 4-11=-525/176, 10-11=-554/197, 8-10=-573/196

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable studs spaced at 2-0-0 oc.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=169.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	B3	MONOPITCH GIRDER	2	2	I58712462

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:57 2023 Page 1

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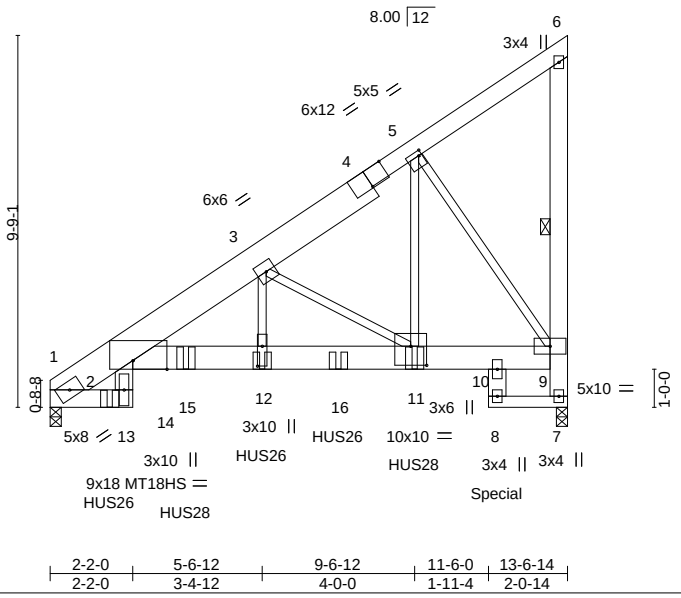
2-2-0	5-6-12	9-6-12	11-6-0	13-6-14
2-2-0	3-4-12	4-0-0	1-11-4	2-0-14

Scale = 1:60.4



2-2-0	5-6-12	9-6-12	11-6-0	13-6-14
2-2-0	3-4-12	4-0-0	1-11-4	2-0-14

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.10	2-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.18	2-12	>892	180	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.15	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 235 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SPF No.2 *Except*
	1-4: 2x10 SP 2400F 2.0E
BOT CHORD	2x6 SPF No.2 *Except*
	1-13: 2x6 SP 2400F 2.0E, 2-9: 2x8 SPF No.2, 7-8: 2x4 SP No.2
WEBS	2x3 SPF No.2 *Except*
	6-7: 2x6 SPF No.2

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, Except:
	6-0-0 oc bracing: 8-10.
WEBS	1 Row at midpt 6-7

REACTIONS. (size) 7=0-3-8, 1=0-3-8
Max Horz 1=352(LC 7)
Max Uplift 7=-688(LC 8), 1=-624(LC 8)
Max Grav 7=4489(LC 2), 1=4626(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2871/471, 2-3=-6288/844, 3-5=-2995/408, 7-9=-4427/695
BOT CHORD 2-13=-232/1586, 2-12=-924/5930, 11-12=-935/6025, 10-11=-412/2465, 9-10=-426/2331
WEBS 5-11=-679/4819, 5-9=-4235/716, 3-11=-4239/729, 3-12=-344/2775

NOTES-

1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-2-0 oc, 2x8 - 4 rows staggered at 0-2-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x3 - 1 row at 0-9-0 oc.
2) 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.
3) 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
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=688, 1=624.
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) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 4-0-0 oc max. starting at 1-6-12 from the left end to 7-6-12 to connect truss(es) to back face of bottom chord.
10) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 6-0-0 oc max. starting at 3-6-12 from the left end to 9-6-12 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

June 5,2023

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1571 lb down and 207 lb up at 11-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-70, 2-6=-70, 1-13=-20, 2-10=-20, 7-8=-20
   Concentrated Loads (lb)
   Vert: 10=-1522(B) 11=-1209(B) 12=-1260(B) 14=-1457(B) 15=-1251(B) 16=-1209(B)

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	B4	GABLE	1	1	I58712463
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:08:59 2023 Page 1

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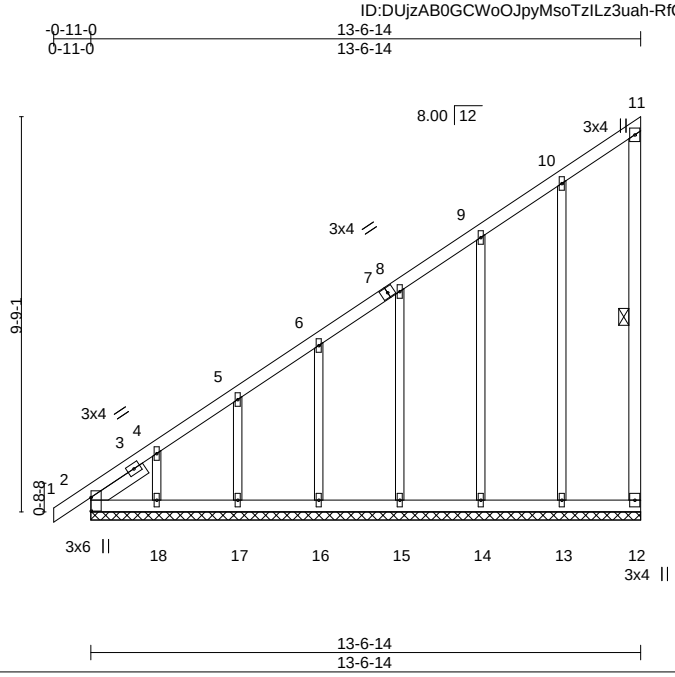

Plate Offsets (X,Y)-- [2:0-4-1,0-0-1]

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	0.45	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.00	1	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(CT)	-0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 84 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x3 SPF No.2
SLIDER	Left 2x4 SP No.2 1-6-13

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.
WEBS	1 Row at midpt 11-12

REACTIONS. All bearings 13-6-14.
(lb) - Max Horz 2=362(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 13, 14, 15, 16, 17 except 18=-130(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 12, 13, 14, 15, 16, 17, 18 except 2=252(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-364/227, 4-5=-288/186, 5-6=-254/163

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 13, 14, 15, 16, 17 except (jt=lb) 18=130.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	C1	Common Structural Gable	2	1	I58712464 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:00 2023 Page 1
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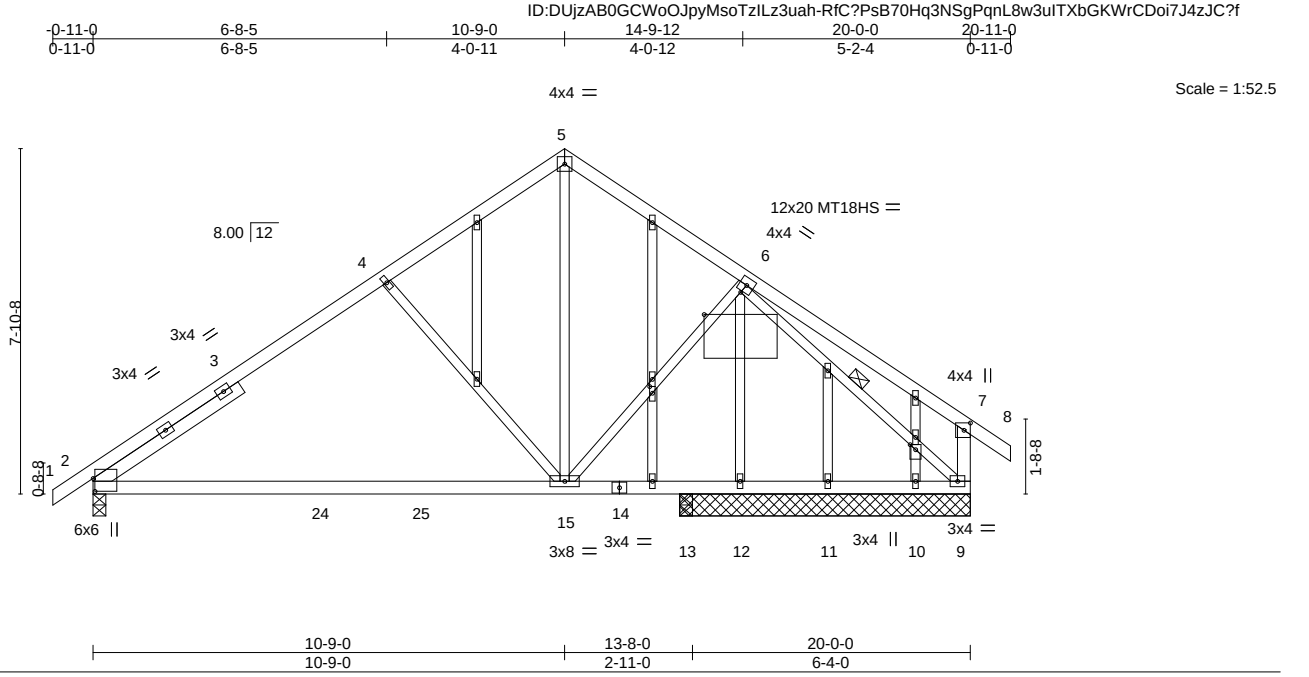

Plate Offsets (X,Y)-- [2:0-3-8,0-0-8], [6:0-10-0,0-6-1], [7:0-2-0,0-1-12], [20:0-1-13,0-0-12], [23:0-1-6,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.35	2-15	>464	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.63	2-15	>257	180	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 113 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 2-14: 2x4 SP 1650F 1.5E
WEBS	2x3 SPF No.2 *Except* 7-9: 2x4 SP No.2
OTHERS	2x3 SPF No.2
SLIDER	Left 2x4 SP No.2 4-0-1

BRACING-

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

REACTIONS. All bearings 6-7-8 except (jt=length) 2=0-3-8, 13=0-3-8.
(lb) - Max Horz 2=220(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-113(LC 8), 9=-146(LC 9), 13=-412(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 11, 10 except 2=1058(LC 15), 9=938(LC 16), 12=382(LC 14)

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

TOP CHORD	2-4=-1149/149, 4-5=-913/152, 5-6=-912/167, 7-9=-318/159
BOT CHORD	2-15=-122/1019, 13-15=-30/761, 12-13=-30/761, 11-12=-30/761, 10-11=-30/761, 9-10=-30/761
WEBS	4-15=-399/217, 5-15=-103/733, 6-9=-951/38

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 2, 146 lb uplift at joint 9 and 412 lb uplift at joint 13.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	C2	Roof Special Girder	2	2	I58712465 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:03 2023 Page 1
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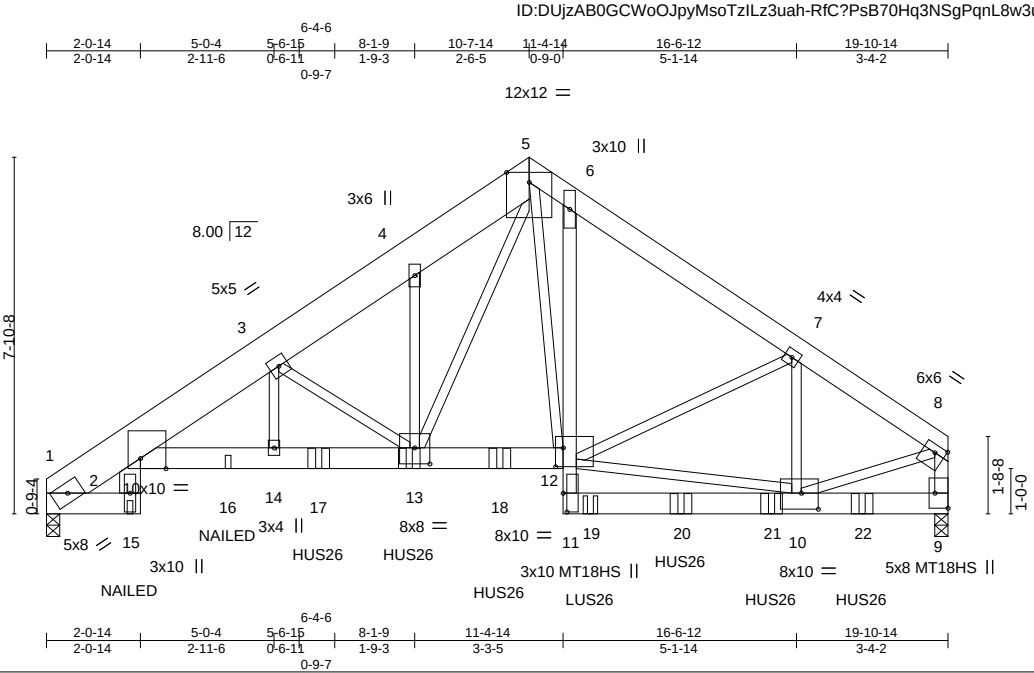

Plate Offsets (X,Y)-- [2:0-6-12,Edge], [8:0-2-12,0-2-0], [9:Edge,0-3-8], [10:0-4-8,0-4-4], [11:0-5-0,0-1-0], [12:0-2-0,0-5-0], [13:0-4-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.11	13-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.19	10-11	>999	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.15	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 321 lb	FT = 20%

LUMBER-
TOP CHORD 2x10 SP 2400F 2.0E *Except*
5-8: 2x6 SPF No.2
BOT CHORD 2x6 SP 2400F 2.0E *Except*
2-15: 2x6 SPF No.2, 6-11: 2x4 SP No.2
WEBS 2x3 SPF No.2 *Except*
8-9: 2x4 SP No.2

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=0-3-8, 9=0-3-8
Max Horz 1=203(LC 5)
Max Uplift 1=-702(LC 8), 9=-781(LC 9)
Max Grav 1=4589(LC 1), 9=6377(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3129/505, 2-3=-9057/1406, 3-4=-7548/1181, 4-5=-6969/1161, 5-6=-5224/872, 6-7=-5947/930, 7-8=-6673/853, 8-9=-5920/759
BOT CHORD 2-15=-148/856, 2-14=-1366/8446, 13-14=-1372/8474, 12-13=-622/4629, 11-12=-166/1265, 6-12=-218/1124, 10-11=-117/1027, 9-10=-48/324
WEBS 5-12=-346/1974, 10-12=-576/4532, 7-12=-735/98, 7-10=-223/622, 8-10=-685/5554, 3-13=-3073/607, 4-13=-164/881, 3-14=-88/667, 5-13=-709/3754

NOTES-
1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x3 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) 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
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 702 lb uplift at joint 1 and 781 lb uplift at joint 9.
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) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 4-0-0 oc max. starting at 6-0-2 from the left end to 18-0-2 to connect truss(es) to back face of bottom chord.

Continued on page 2

June 5,2023

NOTES-

11) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 12-0-2 from the left end to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) "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: 1-2=-70, 2-5=-70, 5-8=-70, 1-15=-20, 2-12=-20, 9-11=-20
   Concentrated Loads (lb)
   Vert: 15=-346(B) 13=-1188(B) 16=-286(B) 17=-1152(B) 18=-1236(B) 19=-393(B) 20=-1531(B) 21=-1534(B) 22=-1534(B)

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	C2-	ROOF SPECIAL GIRDER	2	2	I58712466 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:06 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

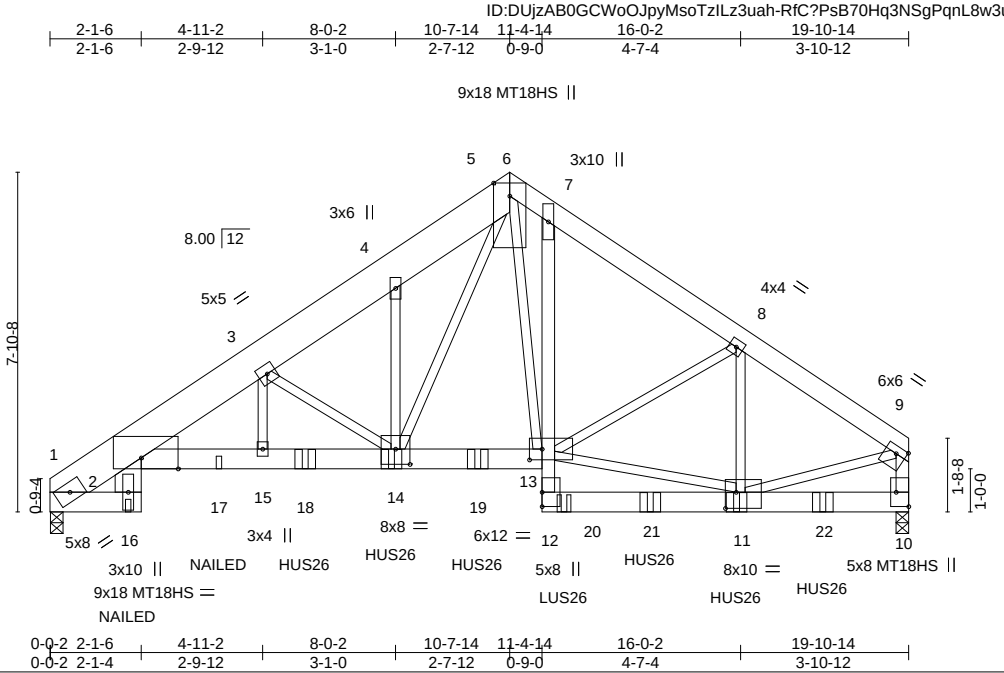

Plate Offsets (X,Y)-- [2:0-10-4,Edge], [9:0-2-12,0-2-0], [10:Edge,0-3-8], [11:0-3-0,0-4-8], [13:0-3-8,0-3-0], [14:0-4-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.11	14-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.19	14-15	>999	180	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 321 lb	FT = 20%

LUMBER-
TOP CHORD 2x10 SP 2400F 2.0E *Except*
6-9: 2x6 SPF No.2
BOT CHORD 2x6 SP 2400F 2.0E *Except*
2-16: 2x8 SPF No.2, 7-12: 2x4 SP No.2
WEBS 2x3 SPF No.2 *Except*
9-10: 2x4 SP No.2

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=0-3-8, 10=0-3-8
Max Horz 1=200(LC 28)
Max Uplift 1=-708(LC 8), 10=-776(LC 9)
Max Grav 1=4627(LC 1), 10=6337(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3208/513, 2-3=-9158/1423, 3-4=-7628/1194, 4-5=-7187/1192, 5-6=-3339/557, 6-7=-5077/840, 7-8=-5957/935, 8-9=-6687/863, 9-10=-5607/733
BOT CHORD 2-16=-154/886, 2-15=-1378/8520, 14-15=-1384/8551, 13-14=-634/4714, 12-13=-154/1090, 7-13=-231/1559, 11-12=-91/796, 10-11=-61/420
WEBS 3-15=-90/688, 3-14=-3000/595, 4-14=-155/709, 11-13=-602/4789, 8-13=-739/100, 8-11=-209/690, 9-11=-655/5341, 5-14=-730/3857, 6-13=-264/1586

NOTES-
1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x3 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) 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
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 708 lb uplift at joint 1 and 776 lb uplift at joint 10.
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) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 4-0-0 oc max. starting at 6-0-2 from the left end to 18-9-2 to connect truss(es) to back face of bottom chord.

Continued on page 2

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER
June 5,2023

NOTES-

11) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 12-0-2 from the left end to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) "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: 1-2=-70, 2-6=-70, 6-9=-70, 1-16=-20, 2-13=-20, 10-12=-20
   Concentrated Loads (lb)
   Vert: 16=-346(B) 14=-1188(B) 11=-1534(B) 17=-286(B) 18=-1152(B) 19=-1236(B) 20=-393(B) 21=-1531(B) 22=-1534(B)

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	CJA1	Jack-Open	2	1	I58712467
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:07 2023 Page 1
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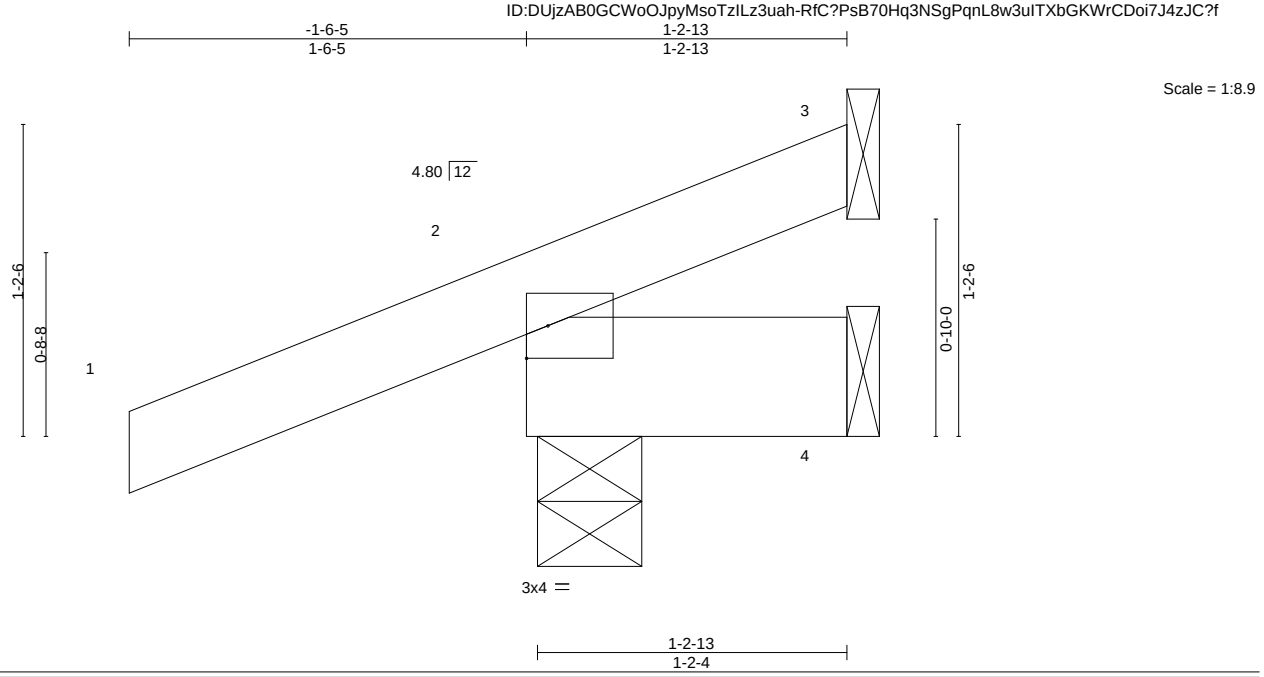

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.00	2	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	2	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 1-2-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-13, 4=Mechanical
Max Horz 2=42(LC 8)
Max Uplift 3=-32(LC 1), 2=-83(LC 4)
Max Grav 3=15(LC 4), 2=236(LC 1), 4=24(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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) 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 32 lb uplift at joint 3 and 83 lb uplift at joint 2.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 5,2023

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	CJA2	Jack-Open	2	1	I58712468

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:09 2023 Page 1

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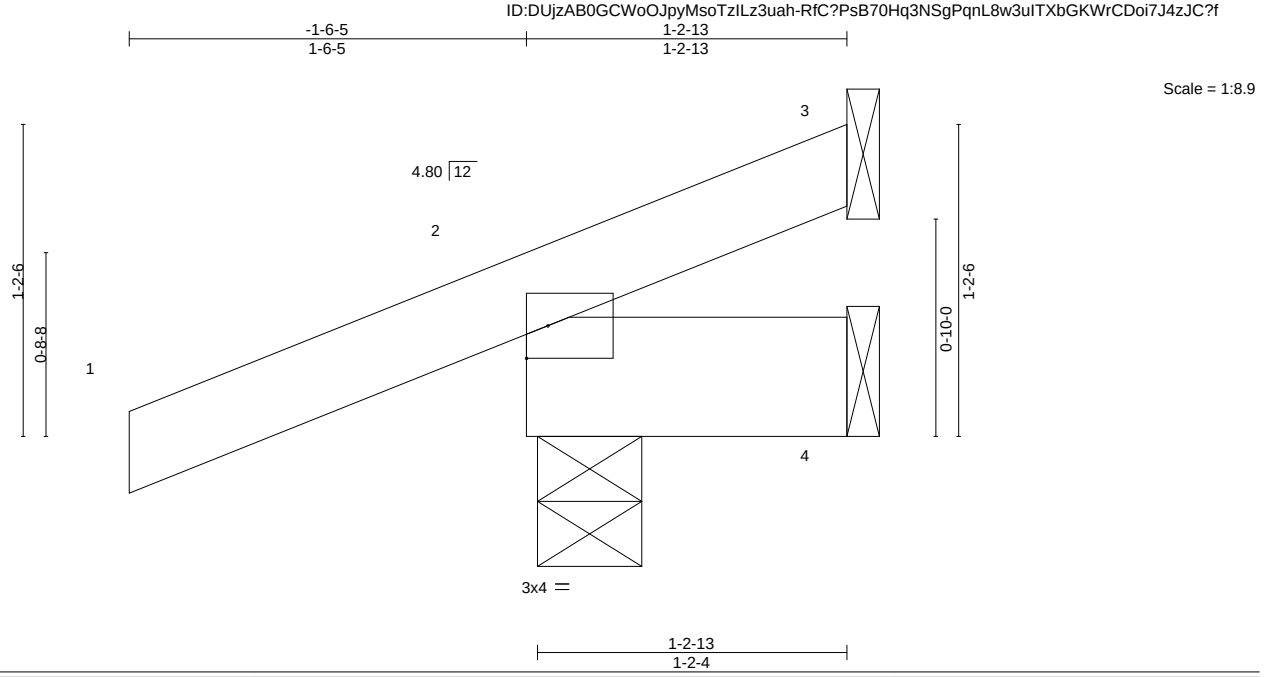

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.00	2	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	2	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 1-2-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-13, 4=Mechanical
Max Horz 2=42(LC 8)
Max Uplift 3=-32(LC 1), 2=-83(LC 4)
Max Grav 3=15(LC 4), 2=236(LC 1), 4=24(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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) 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 32 lb uplift at joint 3 and 83 lb uplift at joint 2.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	CJA3	Jack-Open	2	1	I58712469
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:10 2023 Page 1
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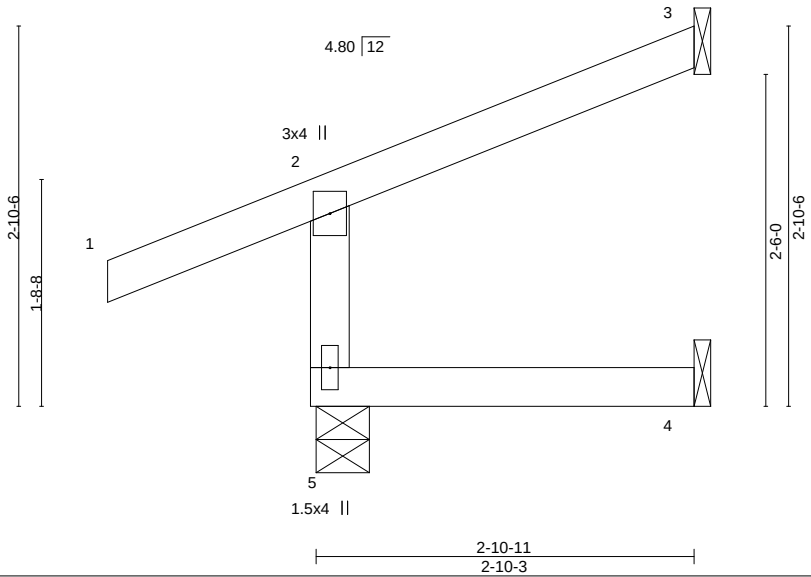

2-10-11
2-10-3

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	0.26	Vert(LL)	-0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	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: 13 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 2-10-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-13, 3=Mechanical, 4=Mechanical
Max Horz 5=73(LC 5)
Max Uplift 5=-51(LC 4), 3=-46(LC 8), 4=-2(LC 5)
Max Grav 5=274(LC 1), 3=63(LC 1), 4=49(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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 5, 46 lb uplift at joint 3 and 2 lb uplift at joint 4.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	D1	GABLE	3	1	I58712470
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:11 2023 Page 1
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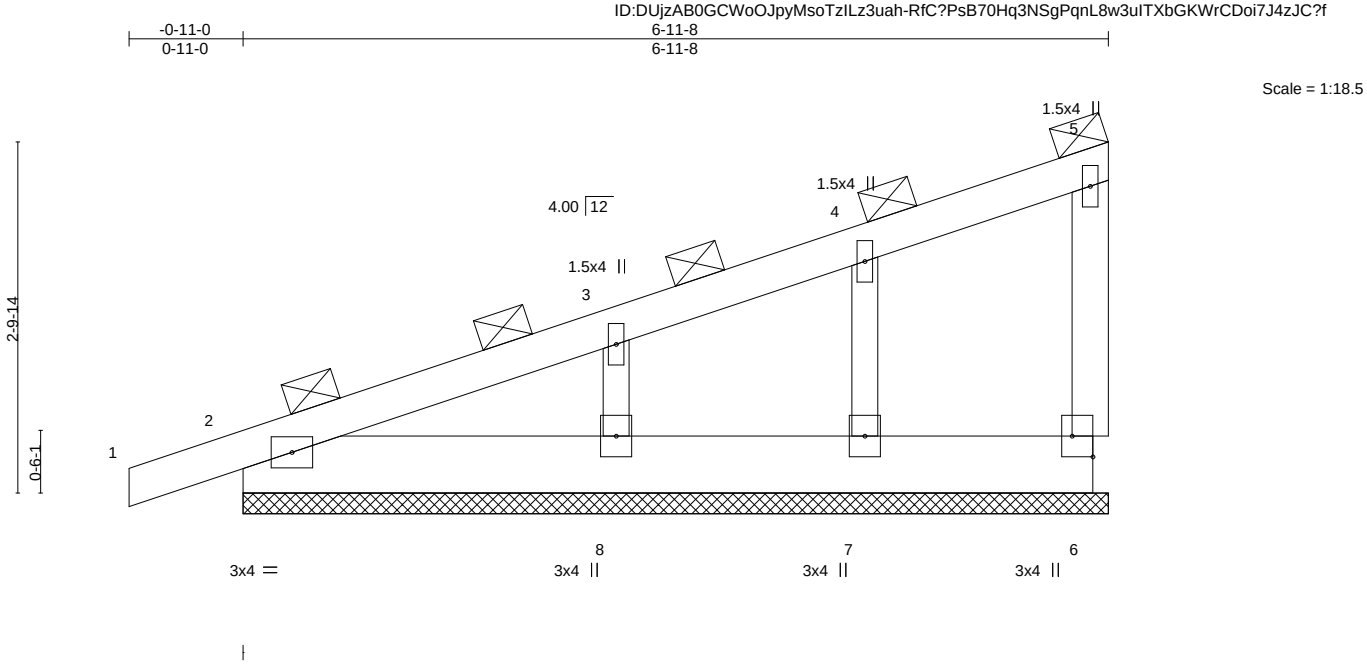

Plate Offsets (X,Y)-- [6:Edge,0-2-0]

LOADING (psf)		SPACING-	5-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	1	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 30 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SPF No.2
WEBS	2x4 SP No.2
OTHERS	2x3 SPF No.2

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 6-11-8.
(lb) - Max Horz 2=266(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 6, 7 except 2=-112(LC 4), 8=-145(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 6 except 2=468(LC 1), 7=410(LC 1), 8=644(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-7=-322/147, 3-8=-490/237

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7 except (jt=lb) 2=112, 8=145.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	D2	MONOPITCH	9	1	I58712471
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:12 2023 Page 1
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0-11-0 6-11-8

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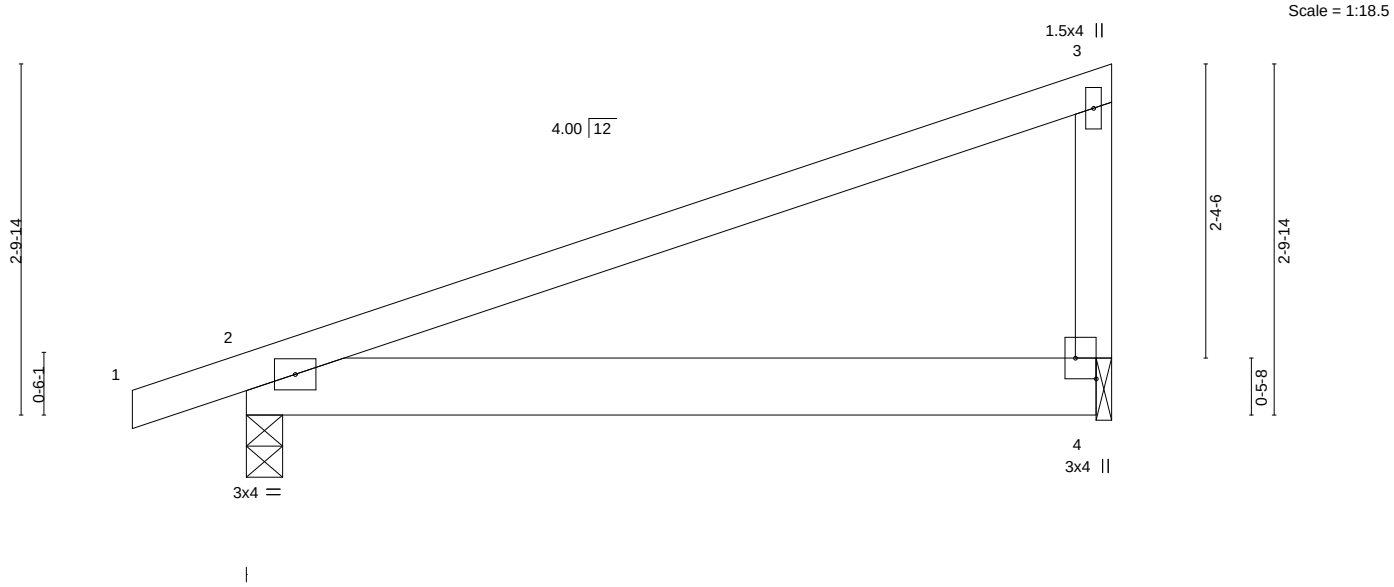

Plate Offsets (X,Y)-- [4:Edge,0-2-0]

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	0.78	Vert(LL)	-0.03	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.06	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 28 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SP No.2

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) 2=0-3-8, 4=0-1-8
Max Horz 2=107(LC 5)
Max Uplift 2=-90(LC 4), 4=-58(LC 8)
Max Grav 2=380(LC 1), 4=294(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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	D3	Monopitch	18	1	I58712472
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:13 2023 Page 1
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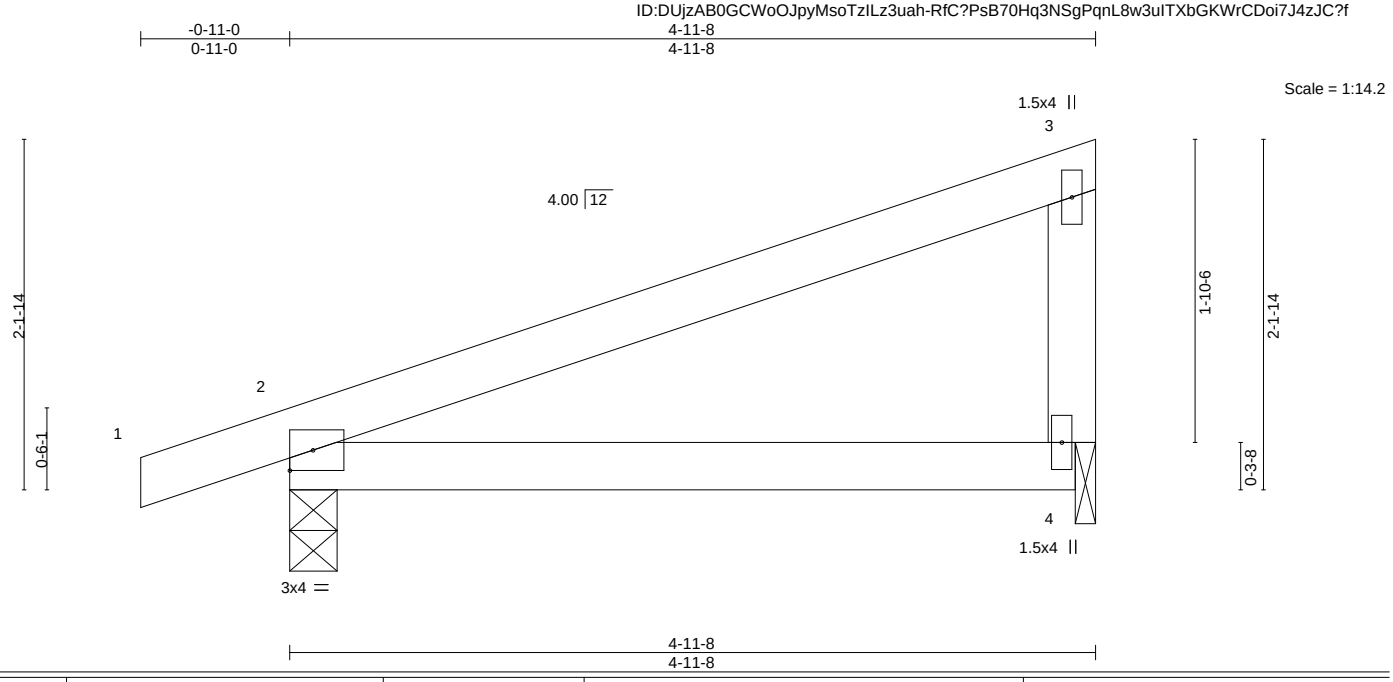

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.03	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.06	2-4	>984	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 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 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-1-8
Max Horz 2=80(LC 5)
Max Uplift 2=-77(LC 4), 4=-40(LC 8)
Max Grav 2=293(LC 1), 4=202(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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	D4	GABLE	3	1	I58712473

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:14 2023 Page 1

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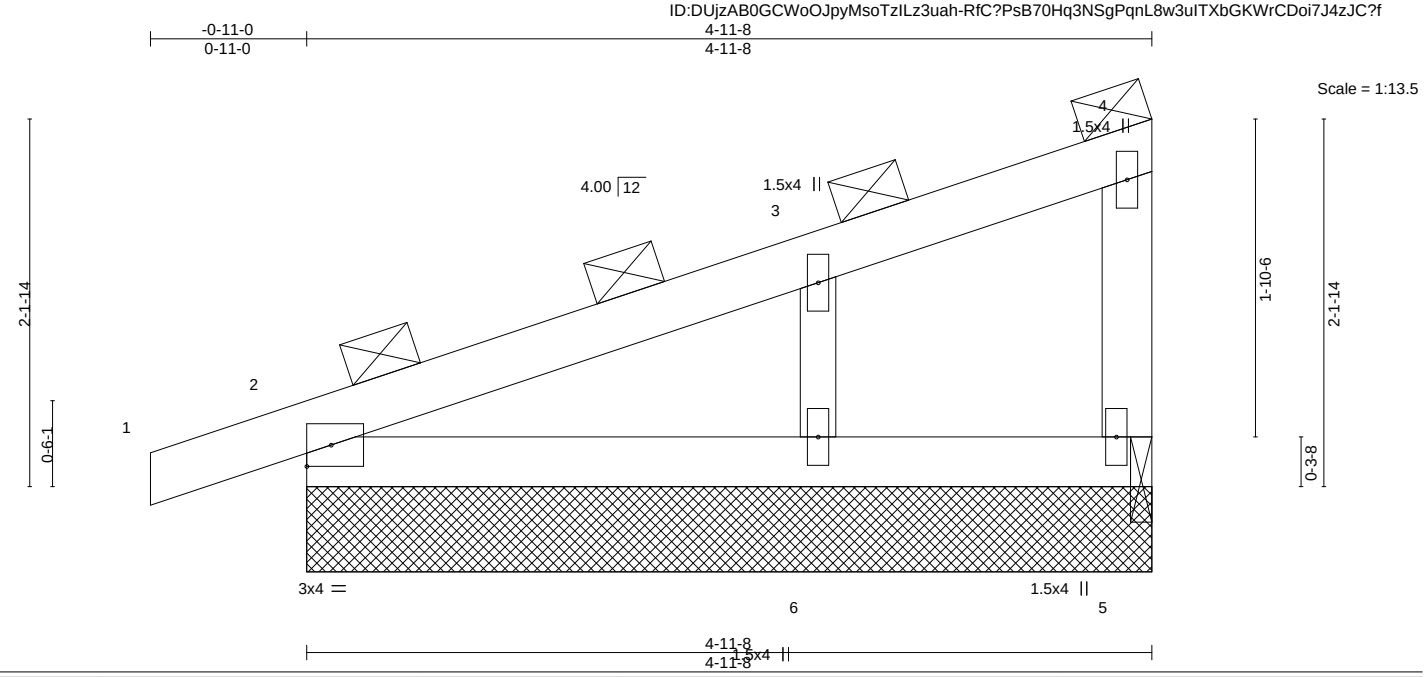

LOADING (psf)		SPACING-	4-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	2-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	2-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 4-11-8.

(lb) - Max Horz 2=160(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 2=-100(LC 4), 6=-122(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 5, 5 except 2=373(LC 1), 6=532(LC 1)

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

WEBS 3-6=-405/198

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable studs spaced at 2-0-0 oc.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=100, 6=122.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	D5	GABLE	1	1	I58712474
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:16 2023 Page 1
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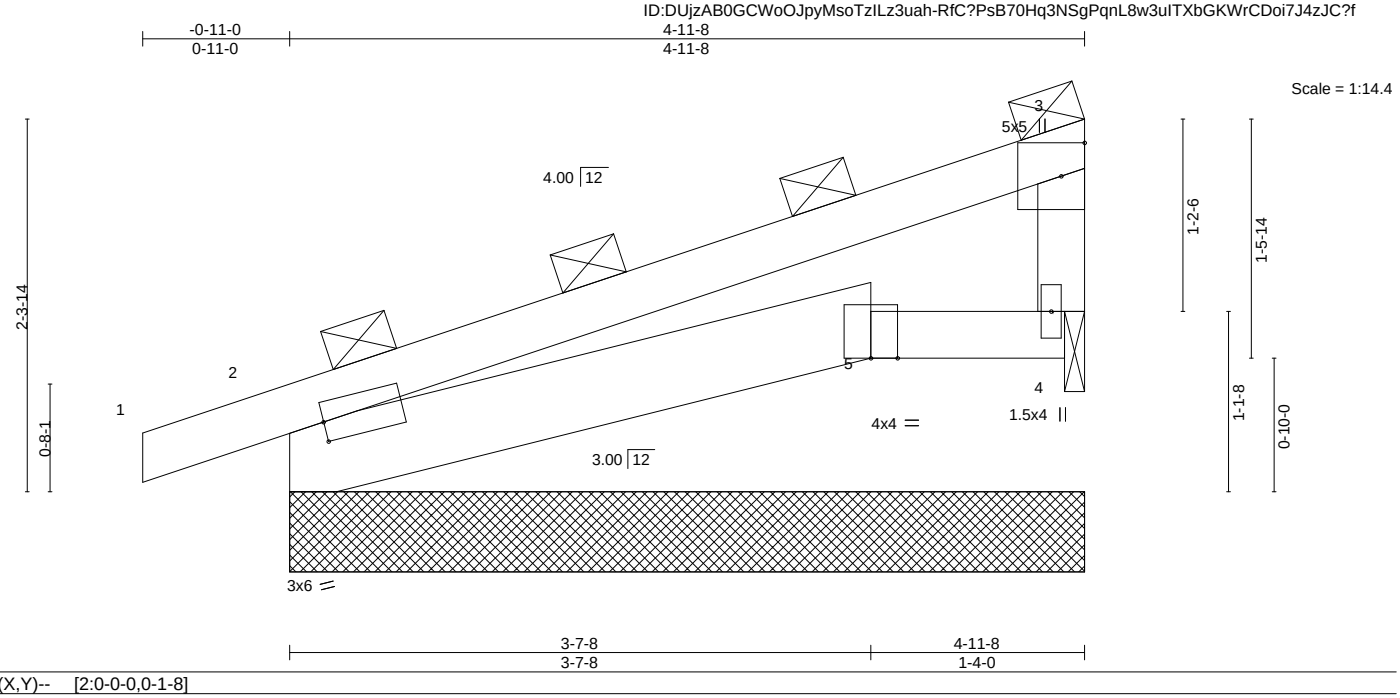

Plate Offsets (X,Y)-- [2:0-0-0,0-1-8]

LOADING (psf)		SPACING-	4-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.01	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.01	2-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 19 lb	FT = 20%

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

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

REACTIONS. All bearings 4-11-8.
(lb) - Max Horz 2=140(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) except 4=-107(LC 4), 2=-145(LC 4)
Max Grav All reactions 250 lb or less at joint(s) 4, 4 except 2=511(LC 1), 5=300(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-366/84
BOT CHORD 2-5=-106/256

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable studs spaced at 2-0-0 oc.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 4 and 145 lb uplift at joint 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.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	D6	MONOPITCH	6	1	I58712475

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:17 2023 Page 1

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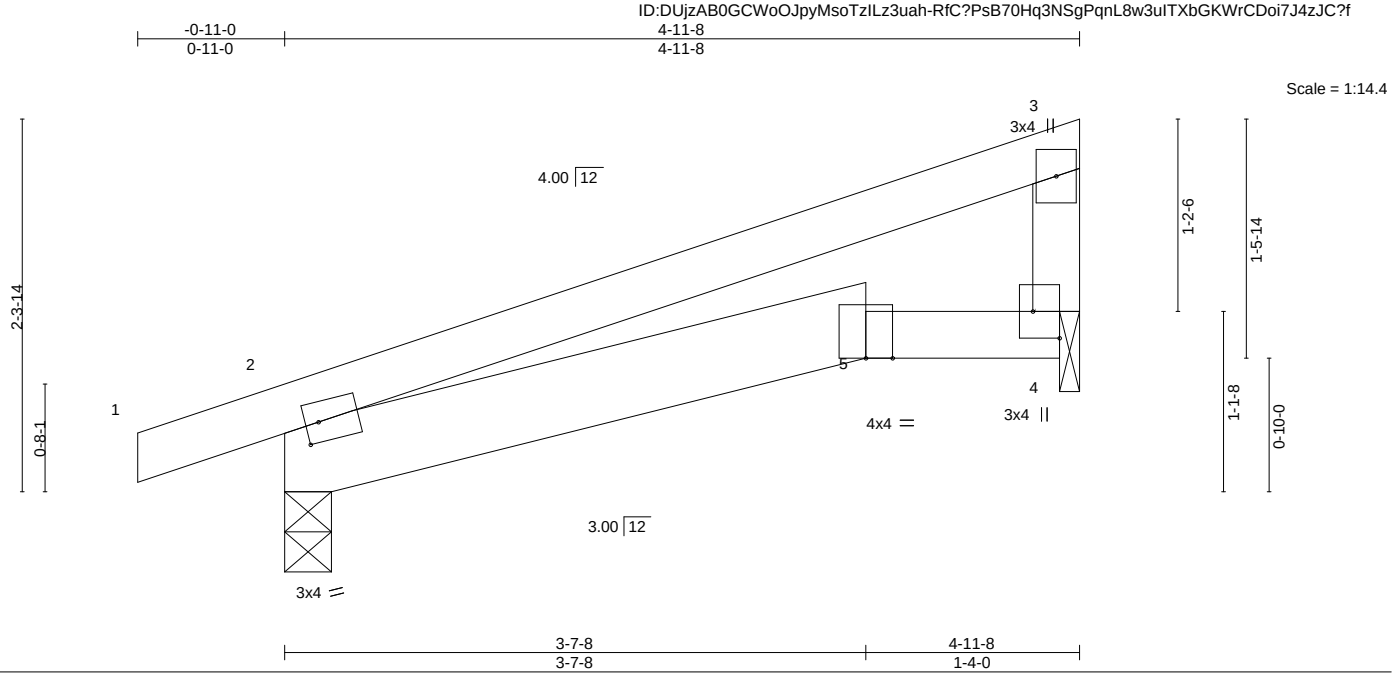

Plate Offsets (X,Y)-- [2:0-1-0,0-1-8], [4:Edge,0-2-0]

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	0.32	Vert(LL)	-0.01	5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.02	2-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-5: 2x6 SPF No.2
WEBS 2x4 SP No.2

BRACING-

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

REACTIONS. (size) 2=0-3-8, 4=0-1-8
Max Horz 2=70(LC 5)
Max Uplift 2=-75(LC 4), 4=-42(LC 8)
Max Grav 2=293(LC 1), 4=202(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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Bearing at joint(s) 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2 and 42 lb uplift at joint 4.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	D7	MONOPITCH	3	1	I58712476

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:18 2023 Page 1

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0-11-0 3-7-8 0-10-15 4-5-1

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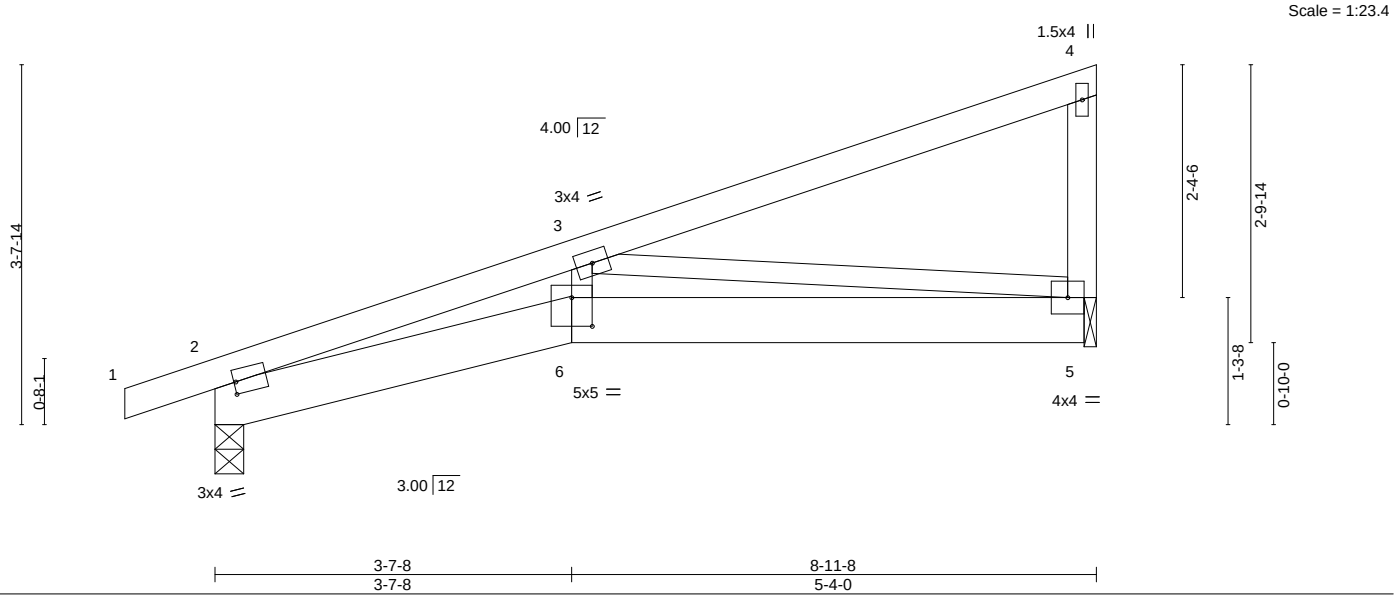

3-7-8 8-11-8

3-7-8 5-4-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.07	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.12	6	>901	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 39 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Sheathed or 4-8-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=0-1-8
Max Horz 2=126(LC 5)
Max Uplift 2=-100(LC 4), 5=-78(LC 8)
Max Grav 2=469(LC 1), 5=385(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1502/313
BOT CHORD 2-6=-350/1384, 5-6=-331/1273
WEBS 3-6=-32/425, 3-5=-1285/357

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Bearing at joint(s) 2, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 2 and 78 lb uplift at joint 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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	D8	GABLE	1	1	I58712477
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:20 2023 Page 1
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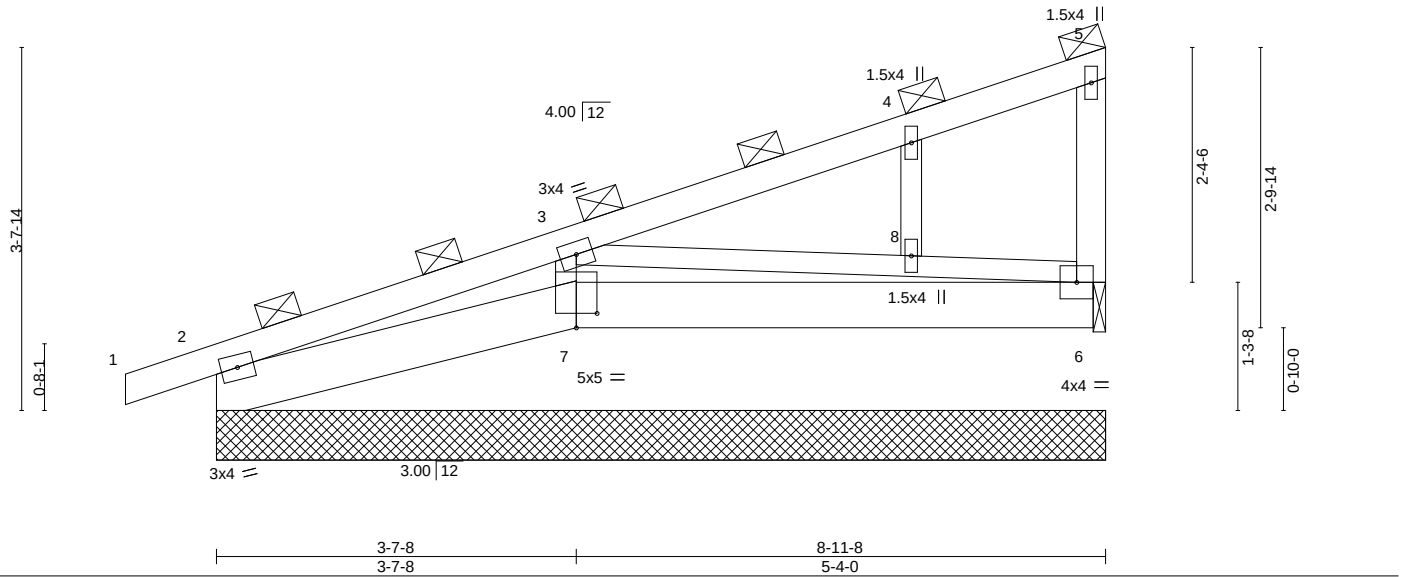

3-7-8 8-11-8
3-7-8 5-4-0

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

LOADING (psf)		SPACING-	5-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.03	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 40 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x3 SPF No.2 *Except*
5-6: 2x4 SP No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (4-10-5 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-11-8.
(lb) - Max Horz 2=315(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) except 6=-124(LC 8), 2=-134(LC 4), 7=-184(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 6=608(LC 1), 6=608(LC 1), 2=624(LC 1), 7=911(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-961/250, 5-6=-267/98
BOT CHORD 2-7=-370/841, 6-7=-311/718
WEBS 3-7=-498/232, 3-8=-717/373, 6-8=-746/386

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable studs spaced at 2-0-0 oc.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 6, 134 lb uplift at joint 2 and 184 lb uplift at joint 7.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	HG1	GABLE	2	1	I58712478
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:21 2023 Page 1
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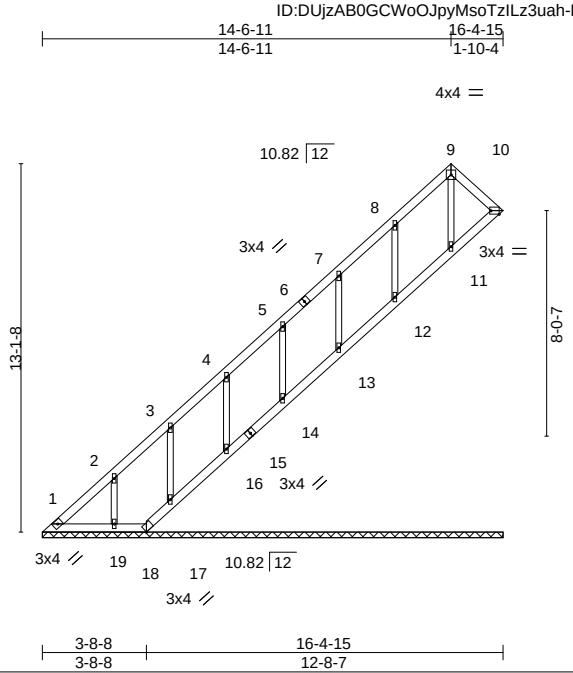

Plate Offsets (X,Y)-- [10:0-3-9,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 78 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 14-16,10-11.

REACTIONS. All bearings 16-4-15.
(lb) - Max Horz 1=470(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 18, 12, 13, 16 except 10=-170(LC 8), 14=-104(LC 8), 17=-106(LC 8), 19=-117(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 10, 18, 11, 12, 13, 14, 16, 17, 19 except 1=302(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-470/197, 2-3=-367/156, 3-4=-272/123

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 10, 11, 12, 13, 14 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) 1, 18, 12, 13, 16 except (jt=lb) 10=170, 14=104, 17=106, 19=117.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11, 12, 13, 14, 16, 17.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	HG2	GABLE	4	1	I58712479

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:23 2023 Page 1

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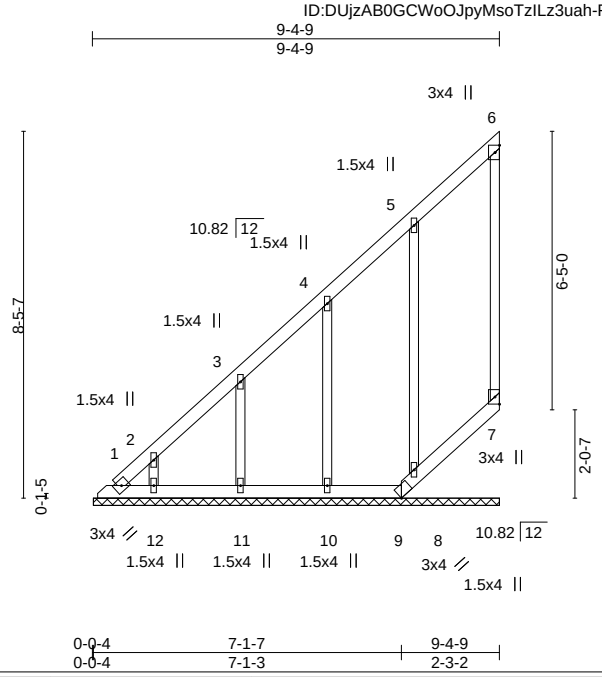

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 49 lb	FT = 20%

LUMBER-

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

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, Except: 6-0-0 oc bracing: 7-8.

REACTIONS. All bearings 9-4-5.

(lb) - Max Horz 1=276(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 9, 11 except 1=-147(LC 6), 7=-139(LC 7), 12=-131(LC 8), 10=-100(LC 8), 8=-140(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 7, 9, 12, 11, 10, 8 except 1=273(LC 8)

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

TOP CHORD 1-2=-367/214, 2-3=-261/171

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 11 except (jt=lb) 1=147, 7=139, 12=131, 10=100, 8=140.
6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 8.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	HG3	GABLE	2	1	I58712480
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:25 2023 Page 1
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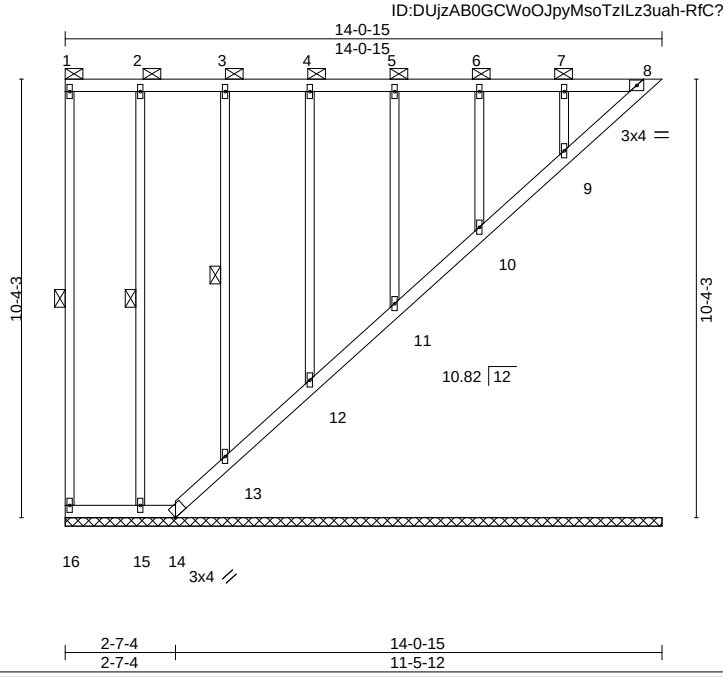

Scale = 1:54.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 84 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	2-0-0 oc purlins (10-0-0 max.): 1-8.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 1-16, 2-15, 3-13

REACTIONS. All bearings 14-0-15.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 16, 8, 15, 13, 12, 11, 10, 9
Max Grav All reactions 250 lb or less at joint(s) 16, 8, 14, 15, 13, 12, 11, 10, 9

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; 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 1.5x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 8, 15, 13, 12, 11, 10, 9.
8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 13, 12, 11, 10, 9.
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.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	HG4	GABLE	4	1	I58712481
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:26 2023 Page 1

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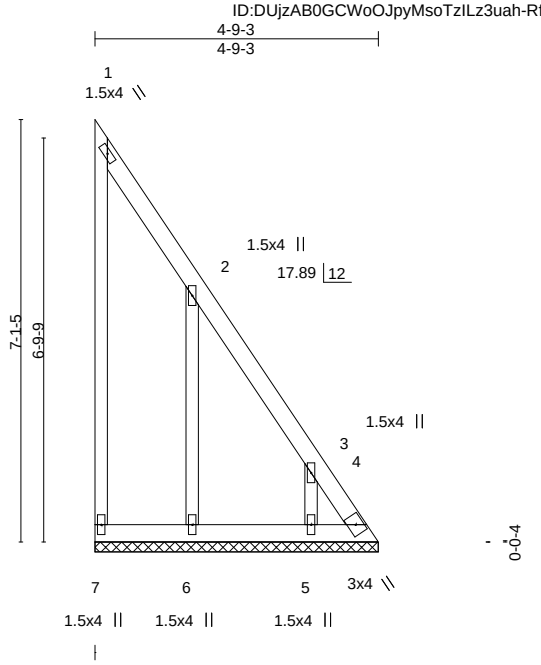

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Sheathed or 4-9-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-9-3.

(lb) - Max Horz 7=-249(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) except 7=-129(LC 6), 4=-202(LC 7), 6=-200(LC 9), 5=-175(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 7, 6, 5 except 4=285(LC 4)

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

TOP CHORD 2-3=-255/191, 3-4=-343/263

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 7, 202 lb uplift at joint 4, 200 lb uplift at joint 6 and 175 lb uplift at joint 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.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	JA1	Jack-Open	8	1	I58712482 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:27 2023 Page 1
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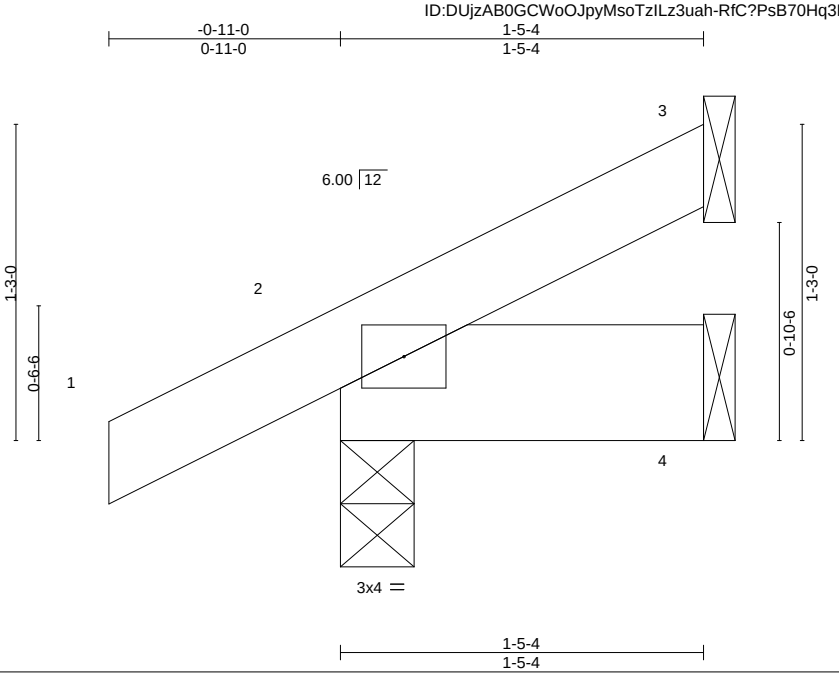

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	2	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	2	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 1-5-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=44(LC 8)
Max Uplift 3=-21(LC 8), 2=-29(LC 8)
Max Grav 3=26(LC 1), 2=151(LC 1), 4=28(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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) 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 21 lb uplift at joint 3 and 29 lb uplift at joint 2.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	JA2	Half Hip Girder	4	1	I58712483
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:29 2023 Page 1
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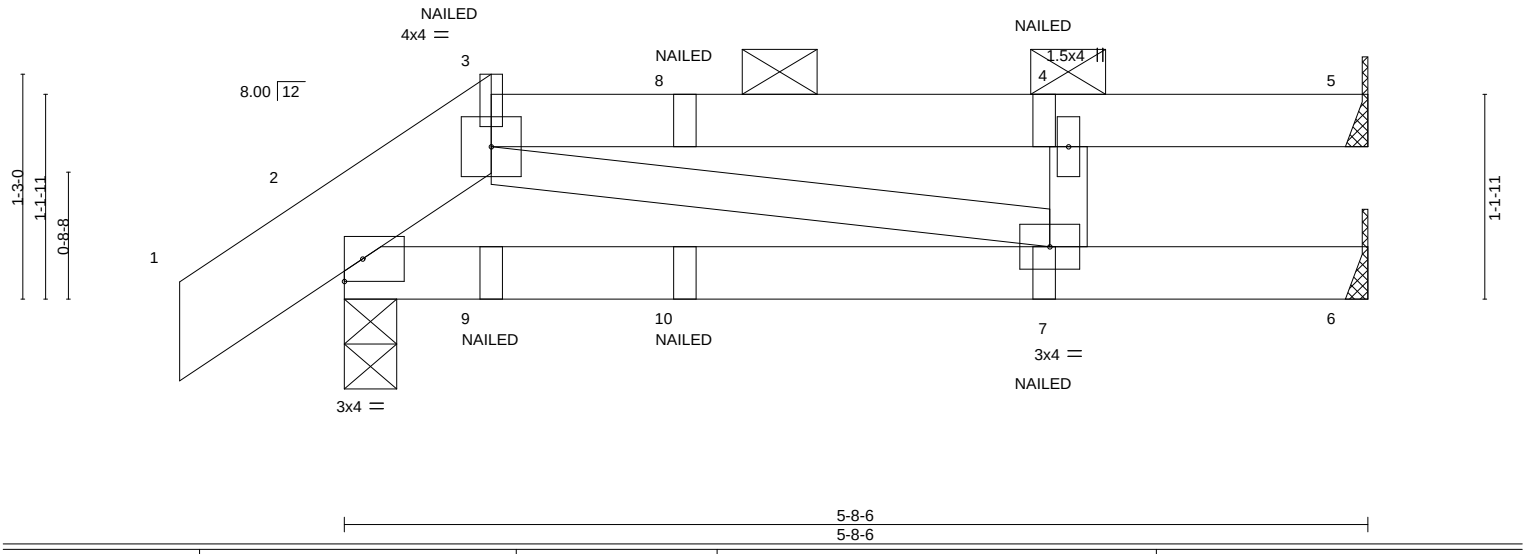
Scale = 1:12.8



5-8-6 / 5-8-6

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	0.31	Vert(LL)	-0.05	2-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.09	2-7	>697	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except* 3-5: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2
WEBS 2x3 SPF No.2

BRACING-
TOP CHORD Sheathed or 5-8-6 oc purlins, except 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=44(LC 8)
Max Uplift 5=-24(LC 5), 2=-27(LC 5), 6=-17(LC 5)
Max Grav 5=139(LC 22), 2=302(LC 1), 6=101(LC 22)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 5, 27 lb uplift at joint 2 and 17 lb uplift at joint 6.
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 skew 45 to 135 degrees (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
Uniform Loads (plf)
Vert: 1-3=-70, 3-5=-70, 2-6=-20
Concentrated Loads (lb)
Vert: 3=30(B)

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	JA3	Half Hip	4	1	I58712484 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:30 2023 Page 1
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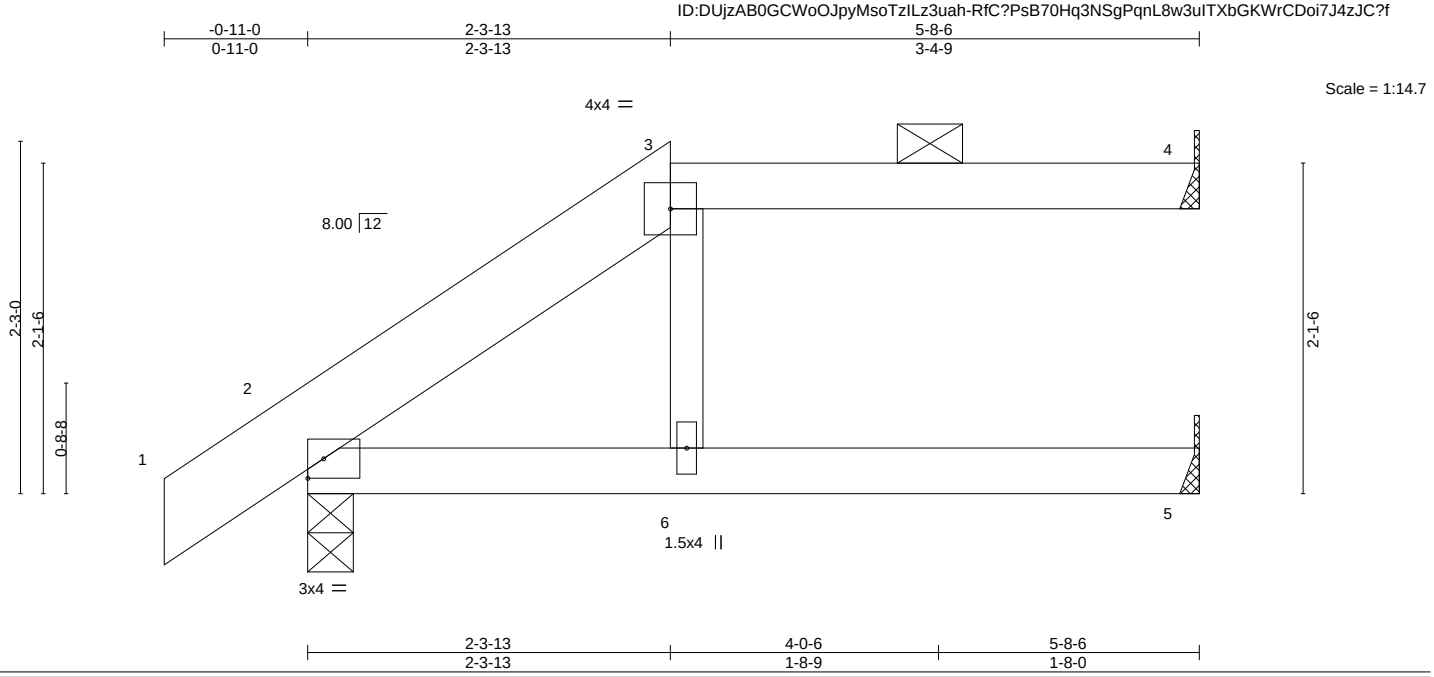

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.09	5-6	>728	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.18	5-6	>364	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.14	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 5-8-6 oc purlins, except 2-0-0 oc purlins: 3-4.
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=83(LC 8)
Max Uplift 4=-45(LC 4), 2=-39(LC 8)
Max Grav 4=116(LC 1), 2=329(LC 1), 5=129(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4 and 39 lb uplift at joint 2.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	JA4	Half Hip	4	1	I58712485

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:32 2023 Page 1

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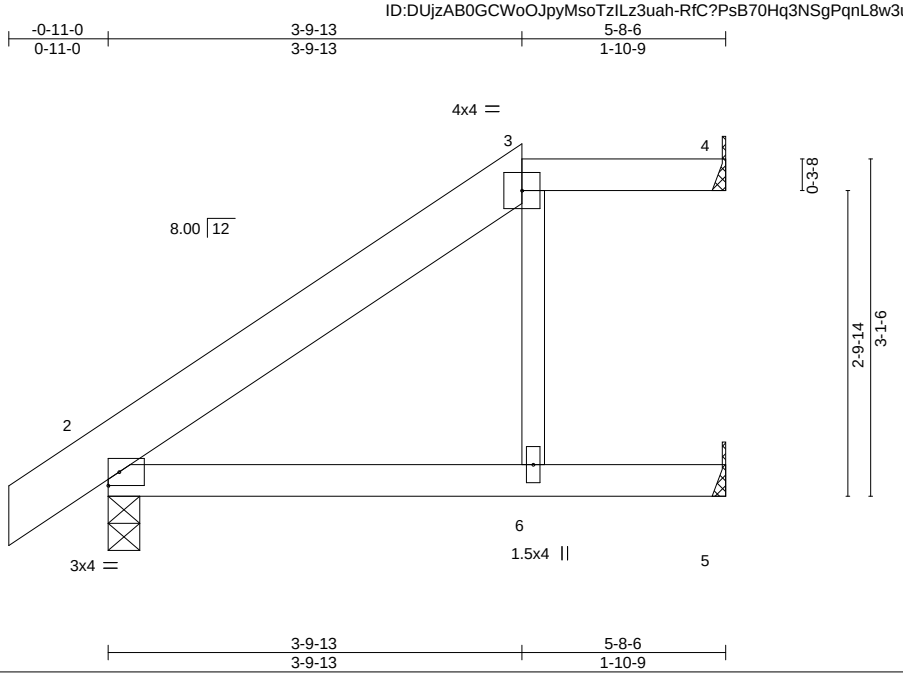

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.08	2-6	>799	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.17	2-6	>389	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.11	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 24 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Sheathed or 5-8-6 oc purlins, except 2-0-0 oc purlins: 3-4.
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=122(LC 8)
Max Uplift 4=-25(LC 4), 2=-34(LC 8), 5=-33(LC 8)
Max Grav 4=64(LC 1), 2=329(LC 1), 5=176(LC 1)

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 4, 34 lb uplift at joint 2 and 33 lb uplift at joint 5.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	JA5	Half Hip	4	1	I58712486
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:33 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0 5-3-13 5-8-6
0-11-0 5-3-13 0-4-9

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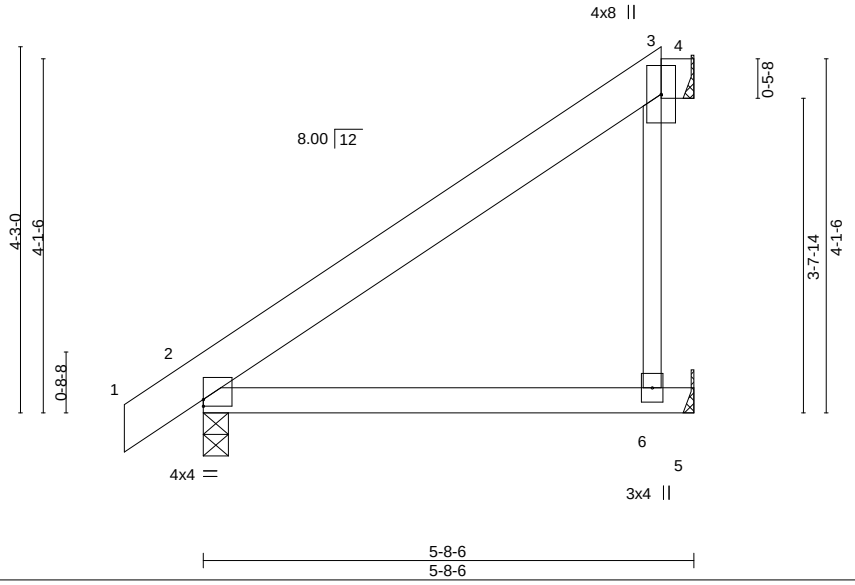


Plate Offsets (X,Y)-- [2:0-0-0,0-0-15]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.02	2-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.04	2-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 26 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SPF No.2
BOT CHORD	2x4 SP No.2
WEBS	2x3 SPF No.2

BRACING-

TOP CHORD	Sheathed or 5-8-6 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
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=149(LC 7)
Max Uplift 4=-5(LC 8), 2=-42(LC 8), 5=-101(LC 7)
Max Grav 4=204(LC 3), 2=329(LC 1), 5=102(LC 15)

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

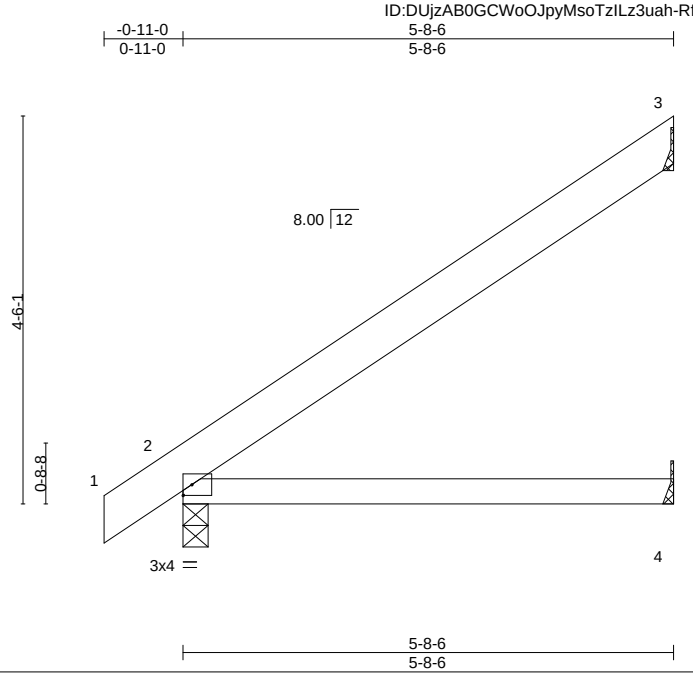
NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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) 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 5 lb uplift at joint 4, 42 lb uplift at joint 2 and 101 lb uplift at joint 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.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	JA6	Jack-Open	18	1	I58712487
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:34 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.05	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.11	2-4	>605	180		
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: 23 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 5-8-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=170(LC 8)
Max Uplift 3=-131(LC 8), 2=-9(LC 8)
Max Grav 3=196(LC 15), 2=329(LC 1), 4=110(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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 3 and 9 lb uplift at joint 2.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

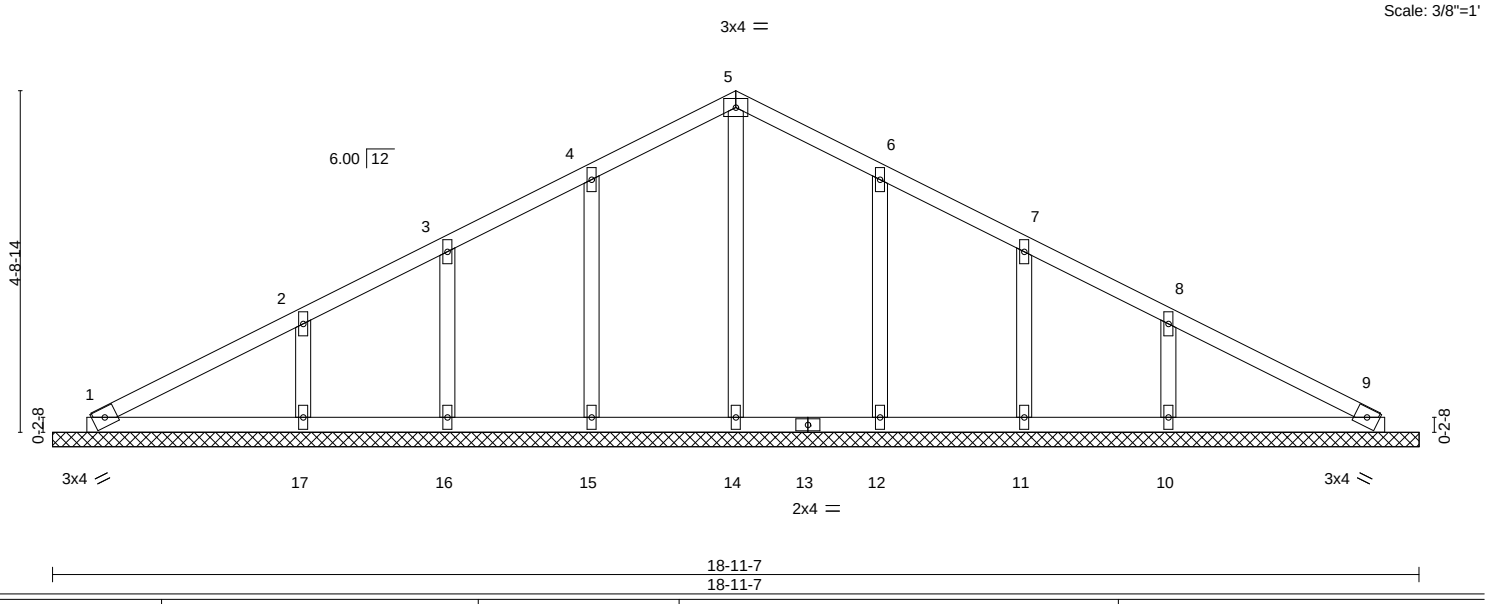
June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	V1	GABLE	2	1	I58712488
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:36 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

9-5-11 | 18-11-7
9-5-11 | 9-5-11

Scale: 3/8"=1'



18-11-7
18-11-7

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 46 lb	FT = 20%

LUMBER-
TOP CHORD 2x3 SPF No.2
BOT CHORD 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-11-7.
(lb) - Max Horz 1=77(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 16, 17, 12, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 14, 15, 16, 12, 11 except 17=267(LC 21), 10=267(LC 22)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
3) All plates are 1.5x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 16, 17, 12, 11, 10.
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.

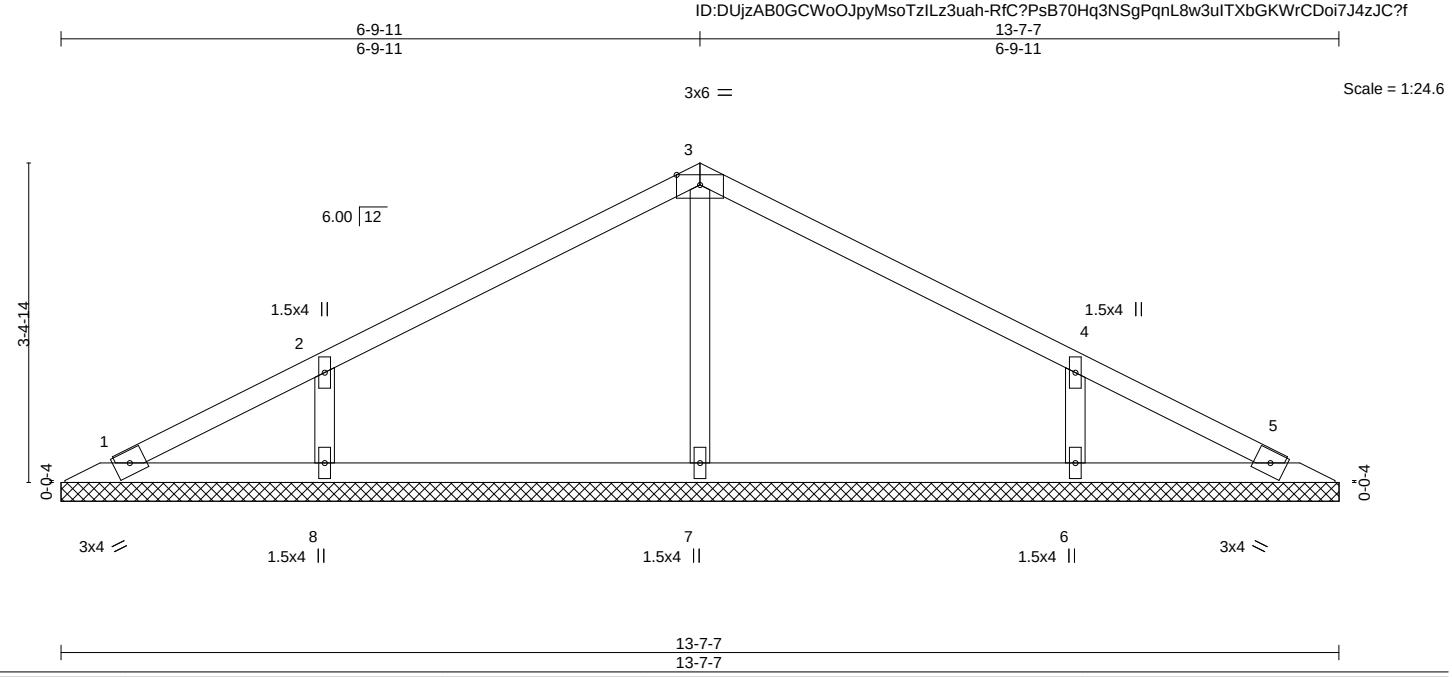
June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	V2	GABLE	2	1	I58712489

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:38 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 13-7-7.
(lb) - Max Horz 1=-54(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-105(LC 8), 6=-105(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=320(LC 1), 8=343(LC 21), 6=343(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-276/147, 4-6=-276/146

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=105, 6=105.
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.

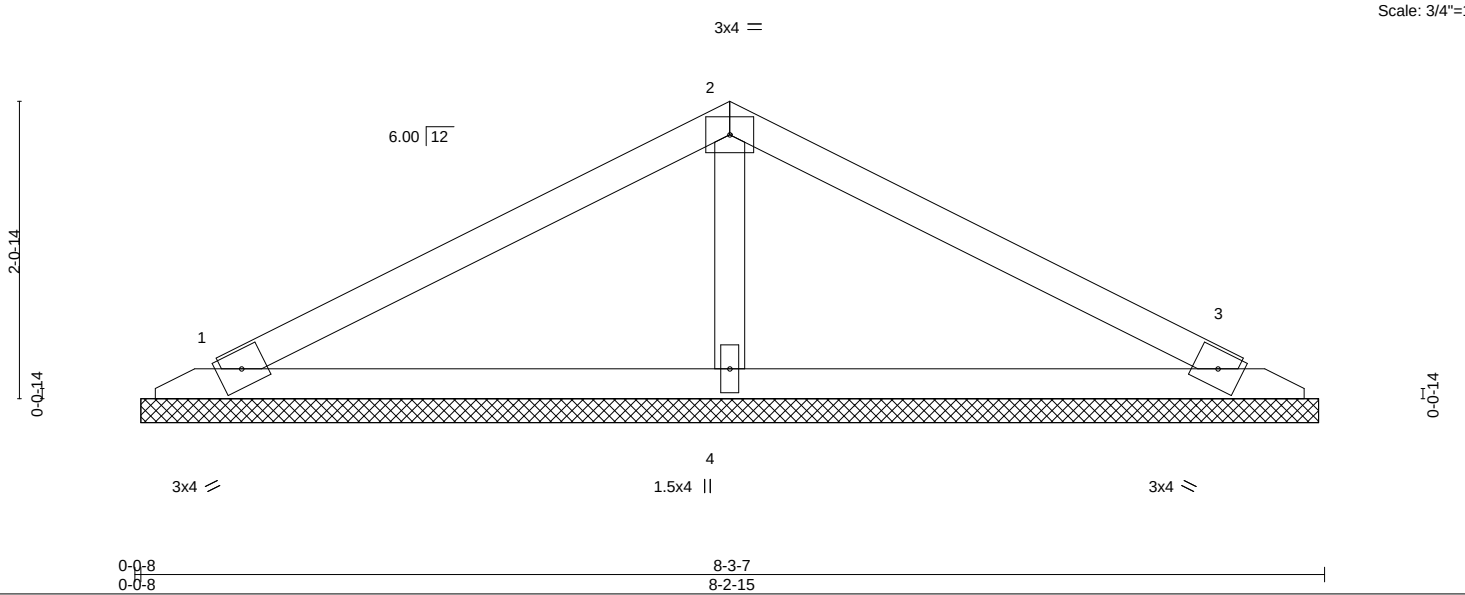
June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	V3	Valley	2	1	I58712490
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:39 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-1-11 8-3-7
4-1-11 4-1-11

Scale: 3/4"=1'



0-0-8 8-3-7
0-0-8 8-2-15

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999		
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: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x3 SPF No.2
BOT CHORD 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=8-2-7, 3=8-2-7, 4=8-2-7
Max Horz 1=31(LC 12)
Max Uplift 1=-34(LC 8), 3=-40(LC 9), 4=-2(LC 8)
Max Grav 1=163(LC 1), 3=163(LC 1), 4=310(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	VB1	GABLE	2	1	I58712491
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:41 2023 Page 1
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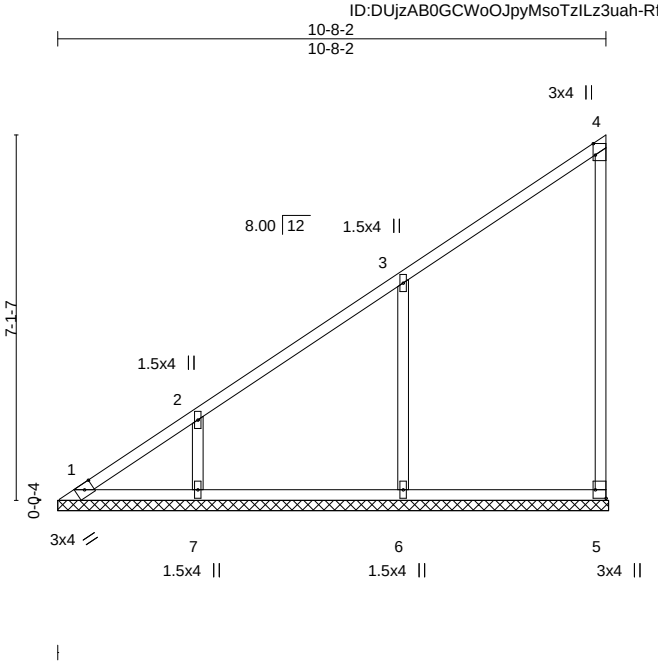


Plate Offsets (X,Y)-- [4:0-2-11,Edge], [5:Edge,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 29 lb	FT = 20%

LUMBER-
TOP CHORD 2x3 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

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 10-8-12.
(lb) - Max Horz 1=262(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-145(LC 8), 7=-114(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=510(LC 15), 7=369(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-326/185

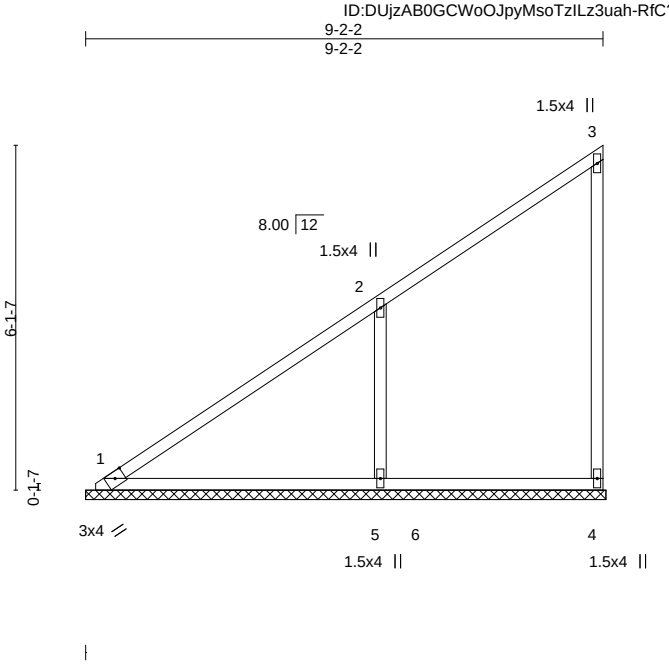
NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 6=145, 7=114.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	VB2	GABLE	2	1	I58712492
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:42 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.12	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 23 lb	FT = 20%

LUMBER-

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

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=9-2-12, 4=9-2-12, 5=9-2-12
Max Horz 1=224(LC 5)
Max Uplift 4=-42(LC 5), 5=-181(LC 8)
Max Grav 1=225(LC 16), 4=177(LC 15), 5=619(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-401/247

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=181.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	VB3	GABLE	2	1	I58712493
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:43 2023 Page 1
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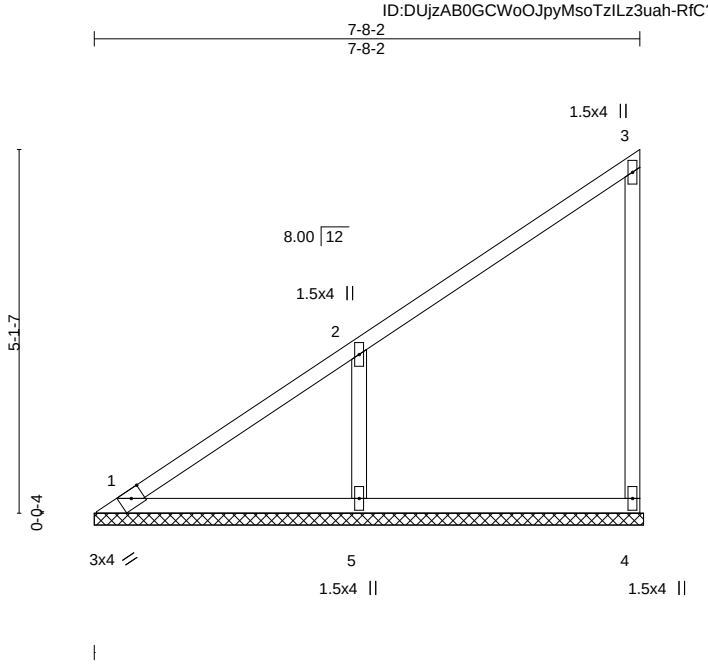


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 19 lb	FT = 20%

LUMBER-
TOP CHORD 2x3 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

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=7-8-12, 4=7-8-12, 5=7-8-12
Max Horz 1=185(LC 5)
Max Uplift 1=-9(LC 4), 4=-38(LC 5), 5=-149(LC 8)
Max Grav 1=138(LC 16), 4=150(LC 15), 5=420(LC 15)

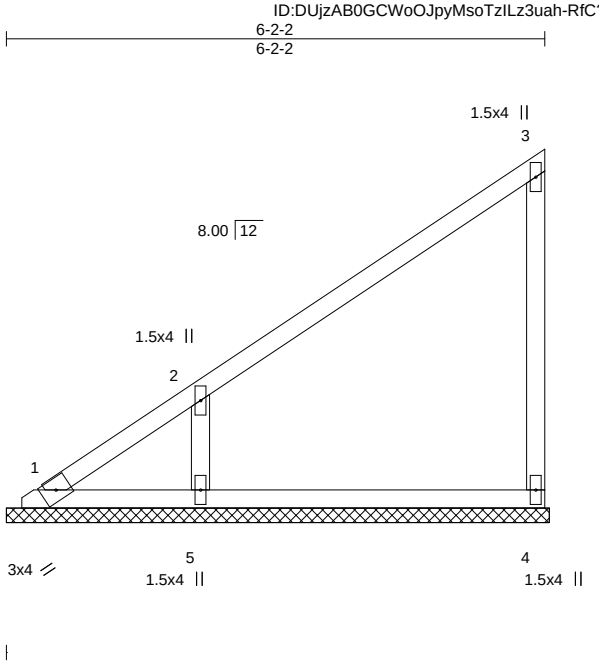
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-330/203

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=149.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	VB4	GABLE	2	1	I58712494
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:44 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x3 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

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=6-2-12, 4=6-2-12, 5=6-2-12
Max Horz 1=147(LC 5)
Max Uplift 1=-43(LC 6), 4=-33(LC 5), 5=-134(LC 8)
Max Grav 1=80(LC 5), 4=154(LC 15), 5=369(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-290/181

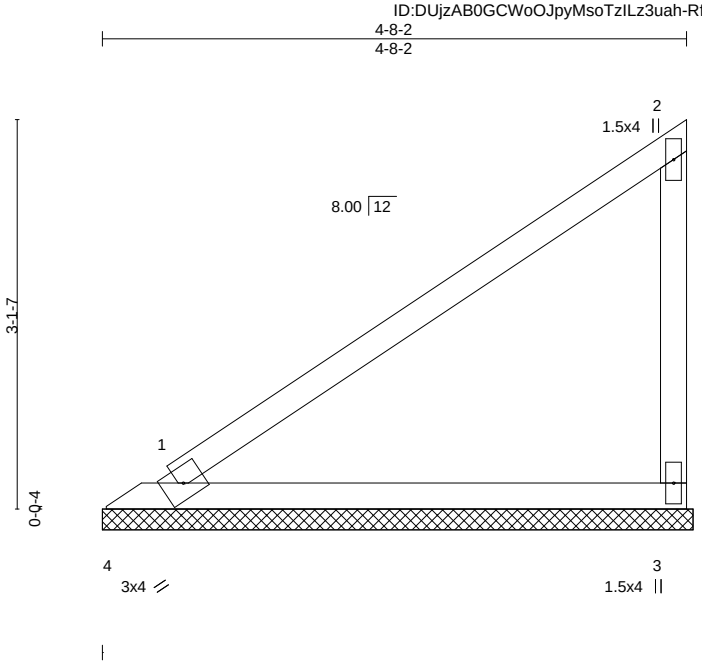
NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=134.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	VB5	GABLE	2	1	I58712495
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:46 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	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: 10 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Sheathed or 4-8-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-8-12, 3=4-8-12, 4=4-8-12
Max Horz 4=108(LC 5)
Max Uplift 3=-56(LC 8), 4=-155(LC 3)
Max Grav 1=309(LC 3), 3=184(LC 15)

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

NOTES-

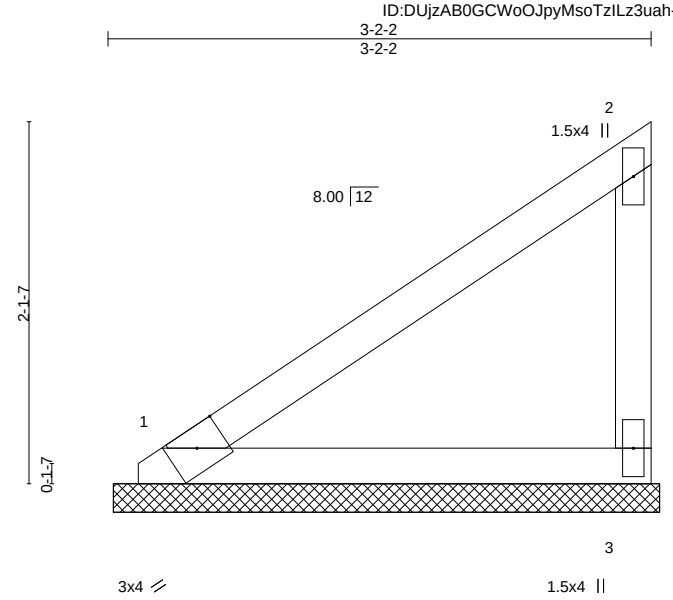
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom 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) 3 except (jt=lb) 4=155.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	VB6	VALLEY	2	1	I58712496
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:47 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	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: 7 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 1=3-2-6, 3=3-2-6
Max Horz 1=70(LC 5)
Max Uplift 1=-9(LC 8), 3=-33(LC 8)
Max Grav 1=123(LC 1), 3=131(LC 15)

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

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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) 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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	VB7	VALLEY	2	1	I58712497
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:48 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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1-8-2

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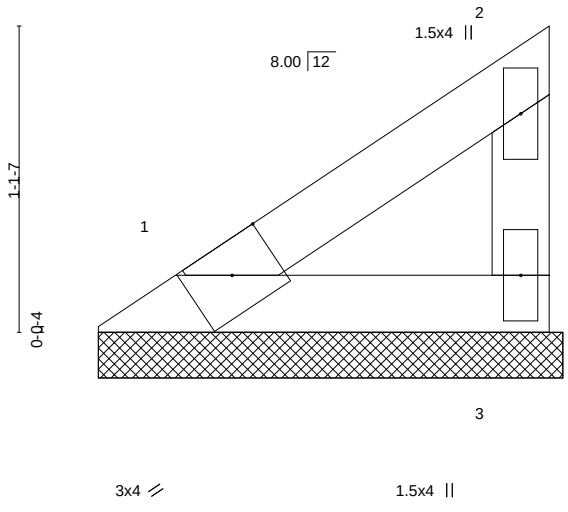

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 3 lb	FT = 20%

LUMBER-
TOP CHORD 2x3 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2

BRACING-
TOP CHORD Sheathed or 1-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=1-8-6, 3=1-8-6
Max Horz 1=31(LC 5)
Max Uplift 1=-4(LC 8), 3=-15(LC 8)
Max Grav 1=55(LC 1), 3=59(LC 15)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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) 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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	VC1	GABLE	2	1	I58712498
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:49 2023 Page 1
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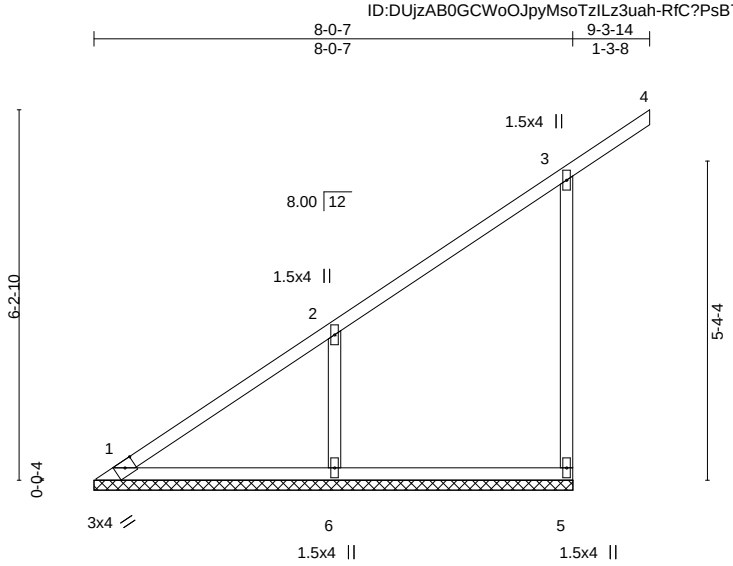

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.01	4	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	0.01	4	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x3 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

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=8-0-7, 5=8-0-7, 6=8-0-7
Max Horz 1=227(LC 5)
Max Uplift 1=-10(LC 4), 5=-106(LC 5), 6=-142(LC 8)
Max Grav 1=162(LC 16), 5=264(LC 15), 6=415(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-6=-320/199

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=106, 6=142.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	VC2	GABLE	2	1	I58712499

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:51 2023 Page 1
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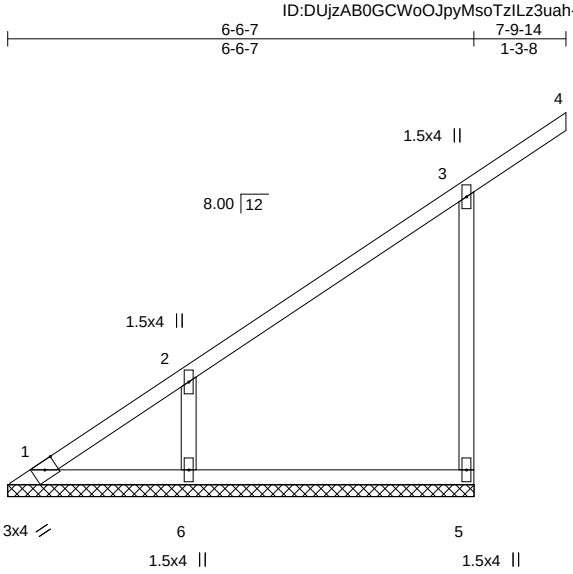

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.01	4	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	0.01	4	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 17 lb	FT = 20%

LUMBER-
TOP CHORD 2x3 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

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=6-6-7, 5=6-6-7, 6=6-6-7
Max Horz 1=189(LC 5)
Max Uplift 1=-25(LC 4), 5=-102(LC 5), 6=-116(LC 8)
Max Grav 1=95(LC 5), 5=271(LC 15), 6=345(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-6=-264/165

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=102, 6=116.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	VC3	GABLE	2	1	I58712500
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:52 2023 Page 1
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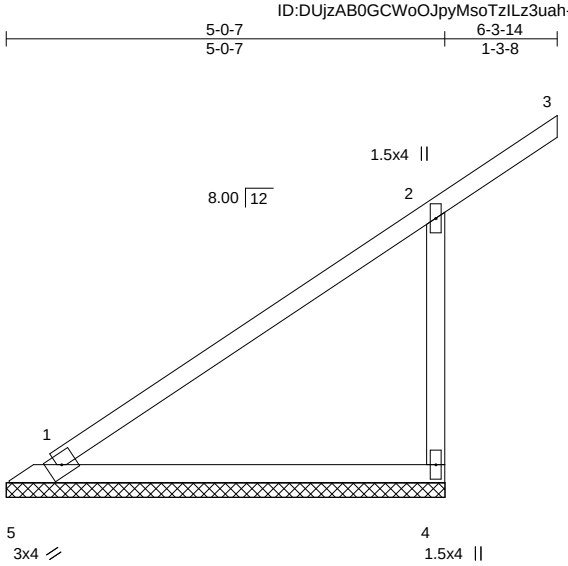


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.01	3	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	0.02	3	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x3 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2

BRACING-
TOP CHORD Sheathed or 5-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-0-7, 4=5-0-7, 5=5-0-7
Max Horz 5=150(LC 5)
Max Uplift 4=-121(LC 8), 5=-204(LC 3)
Max Grav 1=366(LC 3), 4=309(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-275/142

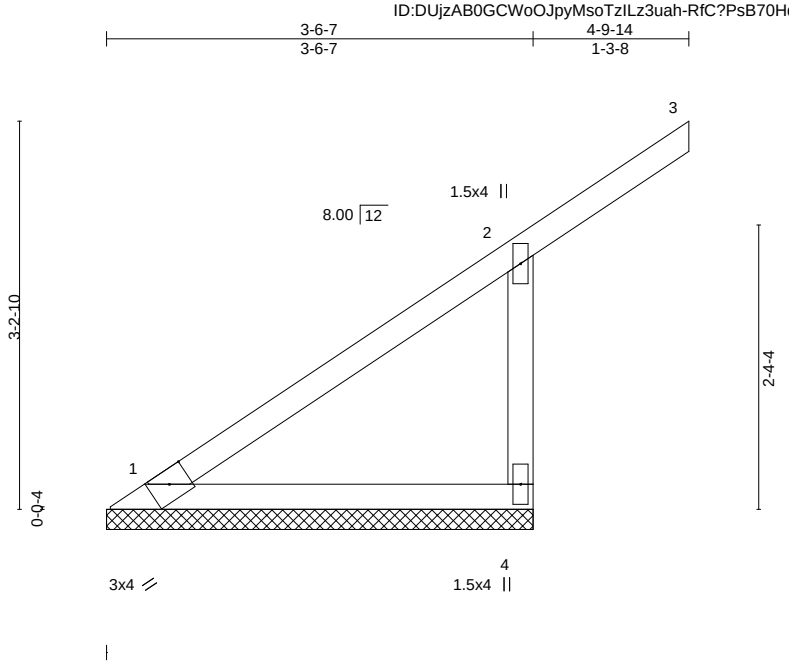
NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=121, 5=204.
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.

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	VC4	Valley	2	1	I58712501
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:53 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.01	3	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	0.01	3	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x3 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2

BRACING-
TOP CHORD Sheathed or 3-6-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-6-7, 4=3-6-7
Max Horz 1=112(LC 5)
Max Uplift 4=-100(LC 8)
Max Grav 1=122(LC 16), 4=262(LC 15)

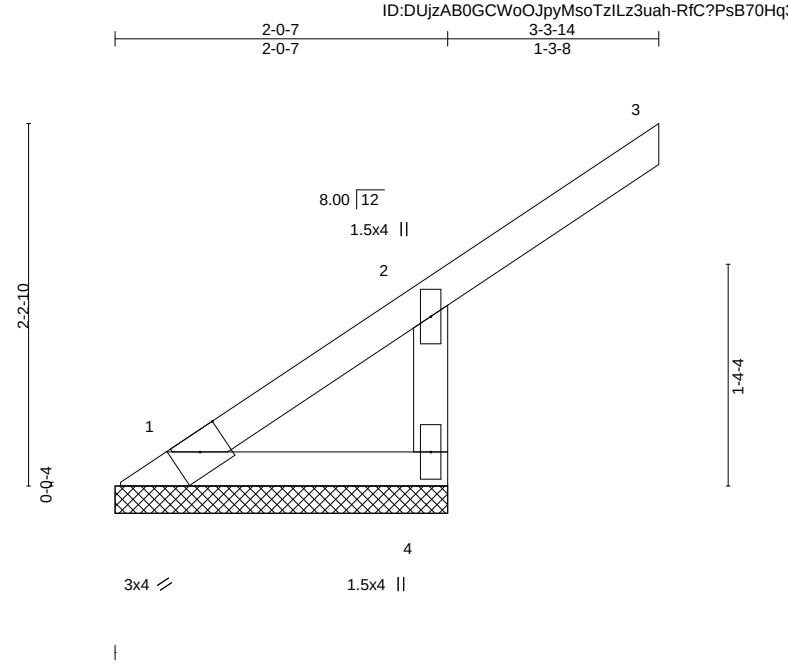
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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) 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) except (jt=lb) 4=100.
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.

June 5,2023

Job	Truss	Truss Type	Qty	Ply	3711/3713/3715/3717 SW Clayton Pl, Lee's Summit, MO
P240061-01	VC5	Valley	2	1	I58712502
					Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Jun 2 12:09:54 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.01	3	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	2	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 20%

LUMBER-
TOP CHORD 2x3 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2

BRACING-
TOP CHORD Sheathed or 2-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-0-7, 4=2-0-7
Max Horz 1=74(LC 5)
Max Uplift 1=-7(LC 4), 4=-93(LC 8)
Max Grav 1=61(LC 5), 4=212(LC 1)

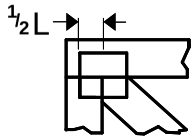
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous bottom chord bearing.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

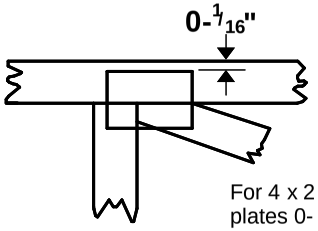
June 5,2023

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- 1/16" from outside edge of truss.

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

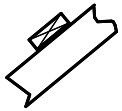
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

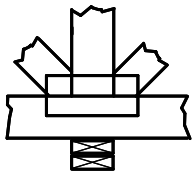
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

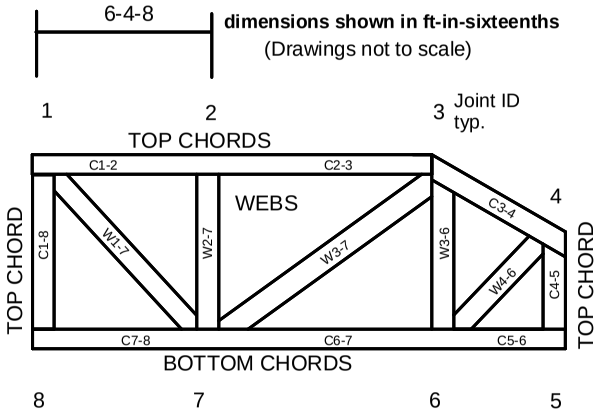


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

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

MiTek®

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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