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

RE: P230912 - Juneau Townhomes - Osage

Site Information:

Project Customer: Clover & Hive Project Name: Juneau - Farmhouse
Lot/Block: 47 Subdivision: Osage
Model:
Address: 3721/3723/3725/3727 SW Clayton Pl
City: Lees 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
Design Method: MWFRS (Envelope) ASCE 7-16 [Low Rise]
Roof Load: 45.0 psf
Floor Load: N/A psf

Mean Roof Height (feet): 25
Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I62280222	A2	11/30/23	35	I62280256	CJA3	11/30/23
2	I62280223	A3	11/30/23	36	I62280257	D1	11/30/23
3	I62280224	A4	11/30/23	37	I62280258	D2	11/30/23
4	I62280225	A5	11/30/23	38	I62280259	D3	11/30/23
5	I62280226	A6	11/30/23	39	I62280260	D4	11/30/23
6	I62280227	A7	11/30/23	40	I62280261	D5	11/30/23
7	I62280228	A8	11/30/23	41	I62280262	D6	11/30/23
8	I62280229	A9	11/30/23	42	I62280263	D7	11/30/23
9	I62280230	A10	11/30/23	43	I62280264	D8	11/30/23
10	I62280231	A11	11/30/23	44	I62280265	HG1	11/30/23
11	I62280232	A12	11/30/23	45	I62280266	HG2	11/30/23
12	I62280233	A13	11/30/23	46	I62280267	HG3	11/30/23
13	I62280234	A14	11/30/23	47	I62280268	HG4	11/30/23
14	I62280235	A15	11/30/23	48	I62280269	JA1	11/30/23
15	I62280236	A16	11/30/23	49	I62280270	JA2	11/30/23
16	I62280237	A17	11/30/23	50	I62280271	JA3	11/30/23
17	I62280238	A18	11/30/23	51	I62280272	JA4	11/30/23
18	I62280239	A19	11/30/23	52	I62280273	JA5	11/30/23
19	I62280240	A20	11/30/23	53	I62280274	JA6	11/30/23
20	I62280241	A21	11/30/23	54	I62280275	JA7	11/30/23
21	I62280242	A22	11/30/23	55	I62280276	V1	11/30/23
22	I62280243	A23	11/30/23	56	I62280277	V2	11/30/23
23	I62280244	A24	11/30/23	57	I62280278	V3	11/30/23
24	I62280245	A25	11/30/23	58	I62280279	VB1	11/30/23
25	I62280246	A26	11/30/23	59	I62280280	VB2	11/30/23
26	I62280247	B1	11/30/23	60	I62280281	VB3	11/30/23
27	I62280248	B2	11/30/23	61	I62280282	VB4	11/30/23
28	I62280249	B3	11/30/23	62	I62280283	VB5	11/30/23
29	I62280250	B4	11/30/23	63	I62280284	VB6	11/30/23
30	I62280251	B5	11/30/23	64	I62280285	VB7	11/30/23
31	I62280252	C1	11/30/23	65	I62280286	VC1	11/30/23
32	I62280253	C2	11/30/23	66	I62280287	VC2	11/30/23
33	I62280254	C3	11/30/23	67	I62280288	VC3	11/30/23
34	I62280255	CJA1	11/30/23	68	I62280289	VC4	11/30/23

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

Truss Design Engineer's Name: Nathan Fox
My license renewal date for the state of Missouri is December 31, 2024.

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

November 30,2023
Nathan Fox

RE: P230912 - Juneau Townhomes - Osage

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

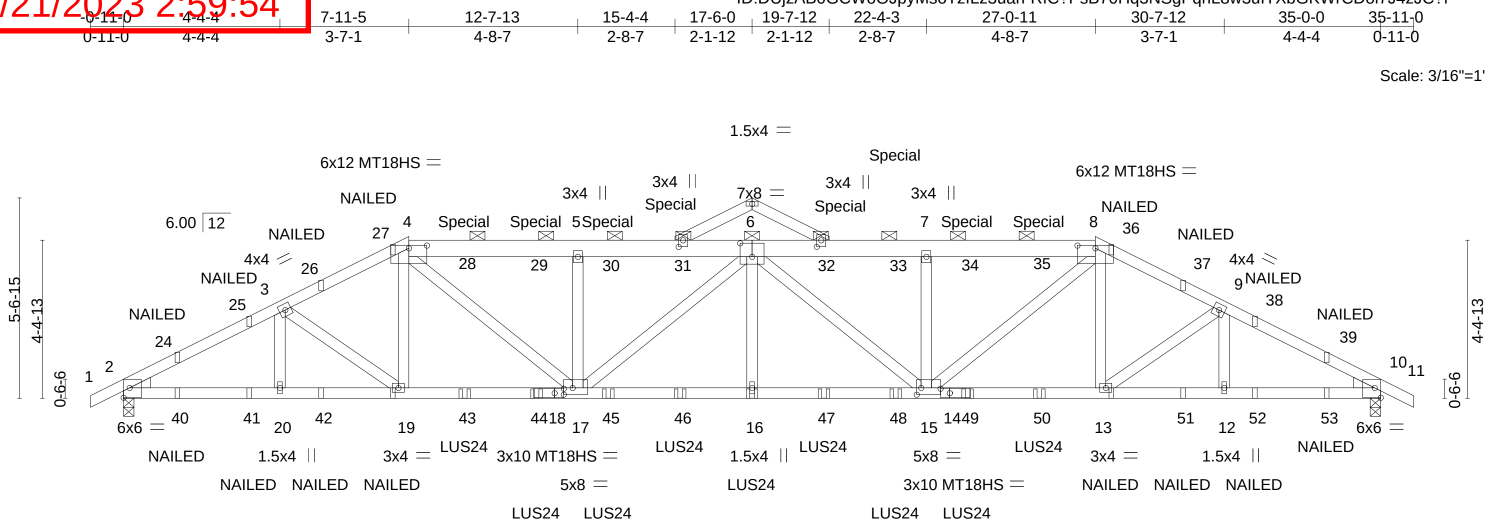
No.	Seal#	Truss Name	Date
69	I62280290	VC5	11/30/23

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/21/2023 2:59:54

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
B230012	A2	Roof Special Girder	2	2	I62280222 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:49 2023 Page 1

ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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

Plate Offsets (X,Y)-- [2:Edge,0-3-4], [4:0-6-0,0-0-15], [6:0-4-0,0-4-8], [8:0-6-0,0-0-15], [10:Edge,0-3-4], [14:0-3-1,0-1-8], [15:0-1-8,0-2-4], [17:0-3-0,0-2-4], [18:0-3-1,0-1-8], [21:0-2-3,0-1-8], [23:0-2-3,0-1-8]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.50	16-17	>833	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.61	16-17	>688	180	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.17	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 374 lb	FT = 20%

Spacing: 2-0-0

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-6,6-8: 2x6 SPF No.2
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
TOP CHORD Sheathed or 3-9-10 oc purlins, except
2-0-0 oc purlins (4-4-7 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 6-0-8 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-74(LC 41)
Max Uplift 2=-2695(LC 5), 10=-2695(LC 4)
Max Grav 2=4917(LC 45), 10=4917(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-9323/5300, 3-4=-9346/5654, 4-5=-12040/7594, 5-6=-12032/7587, 6-7=-12032/7587, 7-8=-12040/7594, 8-9=-9346/5654, 9-10=-9323/5300
BOT CHORD 2-20=-4611/8104, 19-20=-4611/8104, 17-19=-5049/8474, 16-17=-8258/13280, 15-16=-8258/13280, 13-15=-5000/8421, 12-13=-4562/8049, 10-12=-4562/8049
WEBS 3-20=0/255, 3-19=-682/578, 4-19=-214/746, 4-17=-3336/4883, 5-17=-841/860, 6-17=-1537/970, 6-16=-875/1582, 6-15=-1537/970, 7-15=-841/860, 8-15=-3336/4883, 8-13=-215/746, 9-13=-682/578, 9-12=0/255

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 0-7-0 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: 2x4 - 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) All plates are MT20 plates unless otherwise indicated.
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) except (jt=lb) 2=2695, 10=2695.

November 30,2023

Continued on page 2

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NOTES-

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 9-6-0 from the left end to 25-6-0 to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 270 lb down and 401 lb up at 9-6-0, 270 lb down and 401 lb up at 11-6-0, 270 lb down and 401 lb up at 13-6-0, 270 lb down and 401 lb up at 15-6-0, 270 lb down and 401 lb up at 19-6-0, 270 lb down and 401 lb up at 21-6-0, and 270 lb down and 401 lb up at 23-6-0, and 270 lb down and 401 lb up at 25-6-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

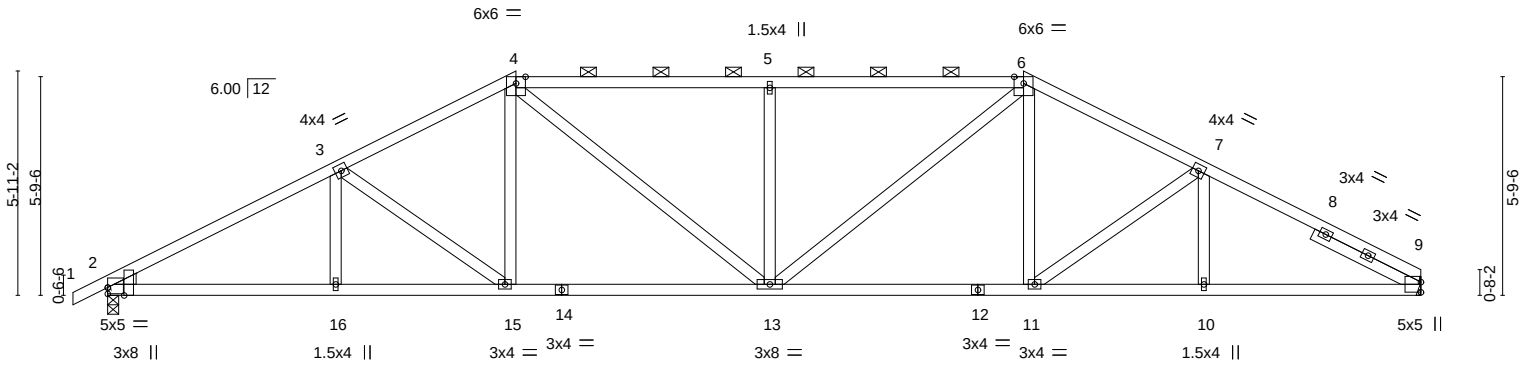
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-4=-70, 4-8=-70, 8-11=-70, 2-10=-20
   Concentrated Loads (lb)
   Vert: 19=-91(F) 16=-577(F) 13=-91(F) 24=-65(F) 25=-46(F) 27=-78(F) 28=77(F) 29=77(F) 30=77(F) 31=77(F) 32=77(F) 33=77(F) 34=77(F) 35=77(F) 36=-78(F) 38=-46(F) 39=-65(F) 40=-84(F) 41=-104(F) 42=-156(F) 43=-577(F) 44=-577(F) 45=-577(F) 46=-577(F) 47=-577(F) 48=-577(F) 49=-577(F) 50=-577(F) 51=-156(F) 52=-104(F) 53=-84(F)

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A6	Hip	2	1	Job Reference (optional)	I62280223

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:01 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0	6-0-5	10-9-8	17-6-0	24-2-8	28-11-11	34-8-8
0-11-0	6-0-5	4-9-3	6-8-8	6-8-8	4-9-3	5-8-13

Scale = 1:60.9



6-0-5	10-9-8	17-6-0	24-2-8	28-11-11	34-8-8
6-0-5	4-9-3	6-8-8	6-8-8	4-9-3	5-8-13

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	0.75	Vert(LL)	-0.17	13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.34	13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 170 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 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-1-13

BRACING-
TOP CHORD Sheathed or 2-7-6 oc purlins, except
2-0-0 oc purlins (3-10-11 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 8)
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=-2835/193, 3-4=-2411/220, 4-5=-2521/263, 5-6=-2521/263, 6-7=-2385/217, 7-9=-2735/192
BOT CHORD 2-16=-187/2402, 15-16=-187/2402, 13-15=-150/2088, 11-13=-87/2078, 10-11=-103/2308, 9-10=-103/2308
WEBS 3-15=-385/168, 4-15=-23/374, 4-13=-146/688, 5-13=-585/220, 6-13=-146/700, 6-11=-19/341, 7-11=-290/161

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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.

November 30,2023

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Chesterfield, MO 63017
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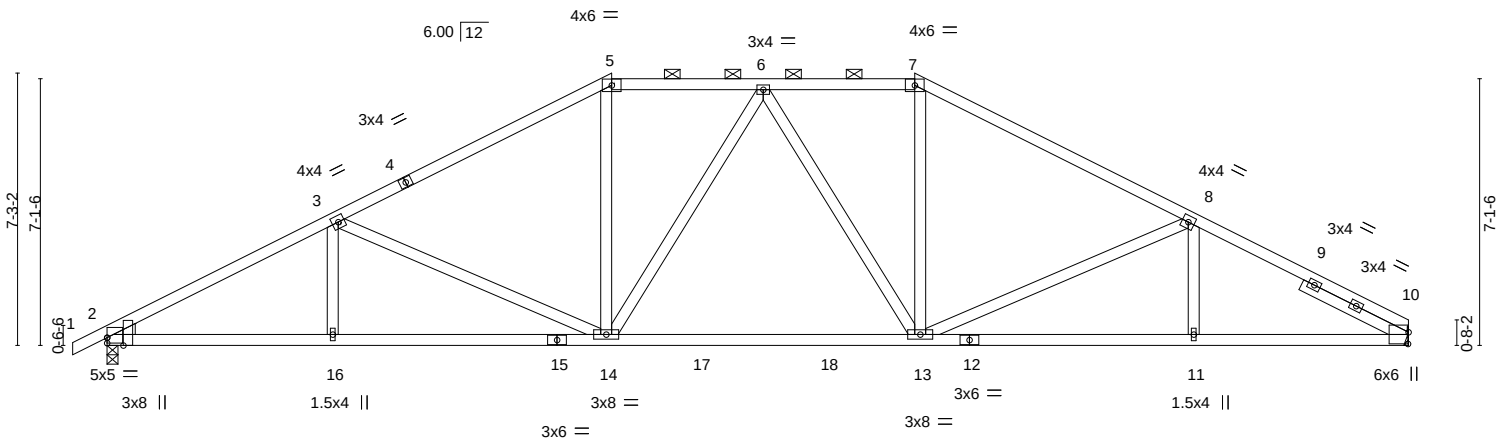
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A4	Hip	2	1		I62280224
Premier Building Supply (Springhill, KS),	Spring Hills, KS - 66083,				Job Reference (optional)	

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:02 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

Scale = 1:61.4



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

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.35	13-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.58	13-14	>712	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.13	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 172 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E *Except*
5-7: 2x4 SP No.2, 7-10: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except*
12-15: 2x4 SP 1650F 1.5E
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-1-12

BRACING-
TOP CHORD Sheathed, except
2-0-0 oc purlins (3-11-6 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 2=0-3-8
Max Horz 2=125(LC 12)
Max Uplift 10=-141(LC 9), 2=-166(LC 8)
Max Grav 10=1623(LC 2), 2=1686(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2982/268, 3-5=-2328/191, 5-6=-1980/217, 6-7=-1976/215, 7-8=-2310/185, 8-10=-2891/253
BOT CHORD 2-16=-287/2578, 14-16=-287/2578, 13-14=-57/2055, 11-13=-147/2468, 10-11=-147/2468
WEBS 3-16=0/275, 3-14=-667/246, 5-14=0/690, 6-14=-345/123, 6-13=-349/122, 7-13=0/657, 8-13=-558/223

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=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.

November 30,2023

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A6	Hip	2	1	Job Reference (optional)	I62280225

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:04 2023 Page 1
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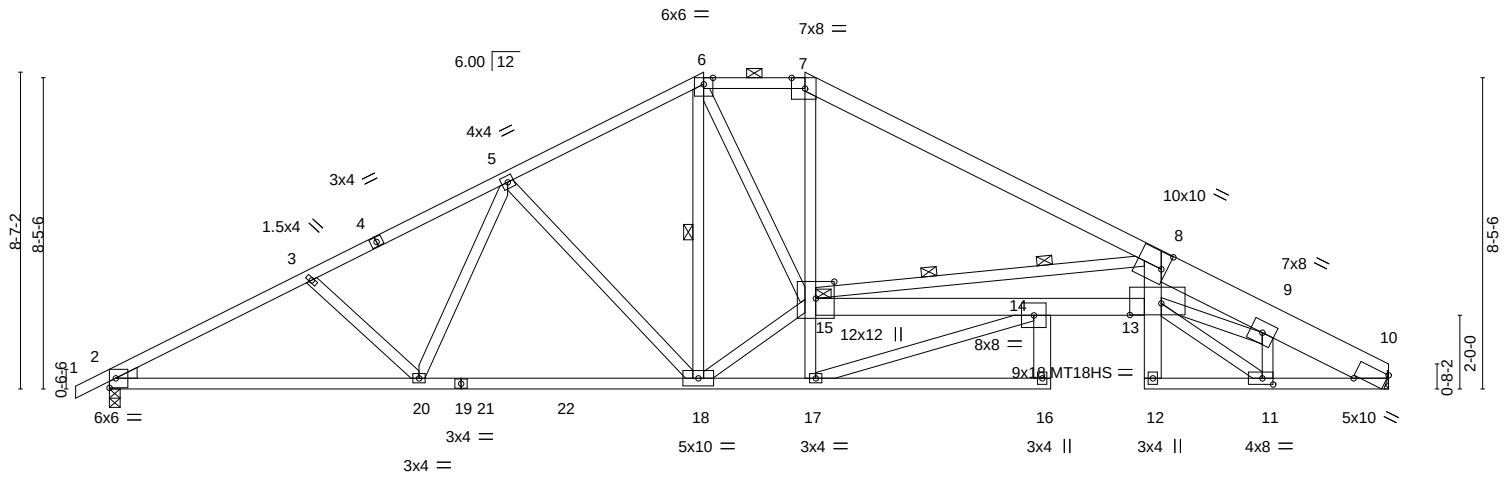
0-11-0	5-3-14	10-9-11	16-1-8	18-10-8	24-2-5	28-1-0	31-5-2	34-8-8
0-11-0	5-3-14	5-3-13	5-3-13	2-9-0	5-3-13	3-10-11	3-4-2	3-3-6

Scale = 1:62.5



8-4-13	16-1-8	18-10-8	24-2-5	25-6-8	26-7-12	28-1-0	31-5-2	34-8-8
8-4-13	7-8-11	2-9-0	5-3-13	1-4-3	1-1-4	1-5-4	3-4-2	3-3-6

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.50	13-14	>834	240	MT20	185/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.84	13-14	>491	180	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.44	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 239 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	7-8: 2x6 SP 2400F 2.0E, 8-10: 2x10 HF No.2
BOT CHORD	2x4 SP 1650F 1.5E *Except*
	10-12: 2x4 SP No.2, 13-15: 2x6 SP 2400F 2.0E
	14-16,8-12: 2x6 SPF No.2
WEBS	2x4 SPF No.3 *Except*
	8-15: 2x4 SP 1650F 1.5E, 11-13,9-13: 2x4 SP No.2
WEDGE	
Left: 2x4 SP No.2	

BRACING-

TOP CHORD	Sheathed, except
	2-0-0 oc purlins (3-4-15 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	8-11-2 oc bracing: 12-13.
WEBS	1 Row at midpt 6-18
	2 Rows at 1/3 pts 8-15
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=1713(LC 2), 10=1664(LC 2)

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

TOP CHORD	2-3=-2943/327, 3-5=-2747/298, 5-6=-2061/233, 6-7=-2345/239, 7-8=-2763/201, 8-9=-7171/505, 9-10=-3020/282
BOT CHORD	2-20=-358/2542, 18-20=-209/2198, 17-18=-35/304, 11-12=-38/440, 10-11=-204/2579, 14-15=-333/6810, 13-14=-313/7023, 8-13=-45/2364
WEBS	3-20=-293/186, 5-20=-39/503, 5-18=-623/224, 6-18=-413/0, 15-18=-25/1860, 7-15=-1/770, 8-15=-4675/407, 9-11=-1391/158, 6-15=-69/1246, 11-13=-200/2576, 9-13=-143/3832

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) 2=187, 10=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.

November 30,2023

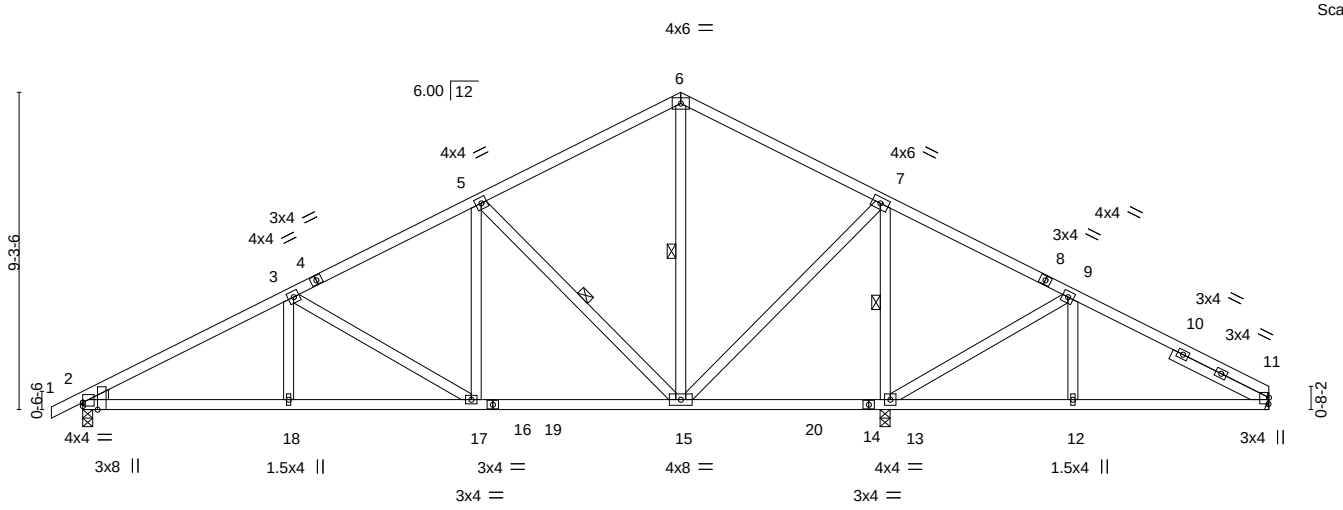
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280226
P2309812	A6	Common	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:05 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0	6-0-5	11-6-3	17-6-0	23-5-13	28-11-11	34-8-8
0-11-0	6-0-5	5-5-14	5-11-13	5-11-13	5-5-14	5-8-13

Scale = 1:67.4



6-0-5	11-6-3	17-6-0	23-5-13	23-7-8	28-11-11	34-8-8
6-0-5	5-5-14	5-11-13	5-11-13	0-1-11	5-4-3	5-8-13

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

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	0.69	Vert(LL)	-0.08	2-18	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.14	2-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 179 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-1-13

BRACING-
TOP CHORD Sheathed or 3-6-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-15, 7-13, 5-15

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 11=Mechanical
Max Horz 2=160(LC 8)
Max Uplift 2=-155(LC 8), 13=-128(LC 8), 11=-101(LC 9)
Max Grav 2=1066(LC 2), 13=1930(LC 2), 11=419(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1666/207, 3-5=-1119/193, 5-6=-531/187, 6-7=-532/171, 7-9=0/458, 9-11=-474/151
BOT CHORD 2-18=-253/1428, 17-18=-253/1428, 15-17=-135/982, 13-15=-343/84, 12-13=-69/345, 11-12=-69/345
WEBS 7-15=-78/1035, 7-13=-1436/178, 9-13=-578/139, 9-12=0/254, 5-15=-782/231, 5-17=-8/463, 3-17=-519/137, 3-18=0/263

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=155, 13=128, 11=101.
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.

November 30,2023

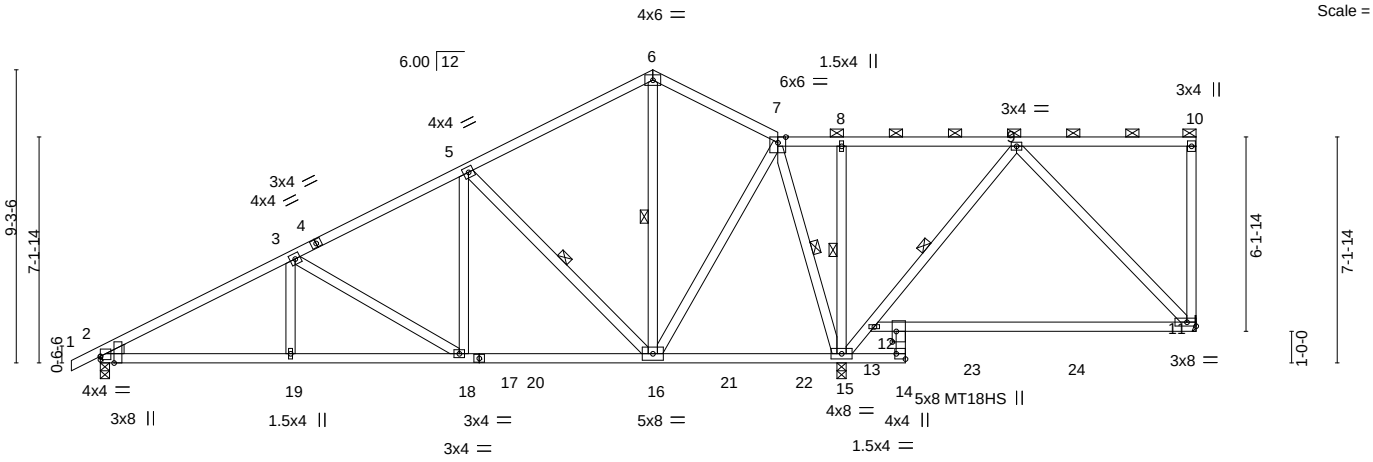
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280227
P230812	A7	Roof Special	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:06 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-0-5	11-6-3	11-10-0	17-6-0	21-5-8	25-6-0	29-0-4	29-11-8	34-8-8
6-0-5	5-5-14	0-3-13	5-8-0	3-11-8	4-0-8	3-6-4	0-11-4	4-9-0

Scale = 1:73.0



6-0-5	11-6-3	11-10-0	17-6-0	21-5-8	23-7-8	25-6-0	34-8-8
6-0-5	5-5-14	0-3-13	5-8-0	3-11-8	2-2-0	1-10-8	9-2-8

Plate Offsets (X,Y)-- [2:0-2-8,Edge], [2:0-0-0,0-1-4], [12:0-4-0,0-1-8], [14:Edge,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	0.67	Vert(LL)	-0.39	11-12	>341	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.64	11-12	>207	180	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 199 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
12-14: 2x4 SPF No.3, 11-13: 2x4 SP 1650F 1.5E
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2

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

REACTIONS. (size) 11=Mechanical, 15=0-3-8, 2=0-3-8
Max Horz 2=288(LC 5)
Max Uplift 11=-194(LC 23), 15=-140(LC 9), 2=-185(LC 8)
Max Grav 11=150(LC 22), 15=2553(LC 2), 2=924(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1369/270, 3-5=-835/258, 5-6=-265/216, 7-8=-8/914, 8-9=-10/902
BOT CHORD 2-19=-349/1112, 18-19=-349/1112, 16-18=-233/678, 15-16=-565/0, 14-15=-432/0, 11-12=-373/0, 8-15=-281/117
WEBS 5-18=-4/479, 6-16=-267/32, 7-15=-1233/119, 13-15=-893/89, 9-13=-913/99, 9-11=0/570, 3-18=-535/134, 3-19=0/263, 5-16=-796/227, 7-16=-9/1191

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=194, 15=140, 2=185.
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.

November 30,2023

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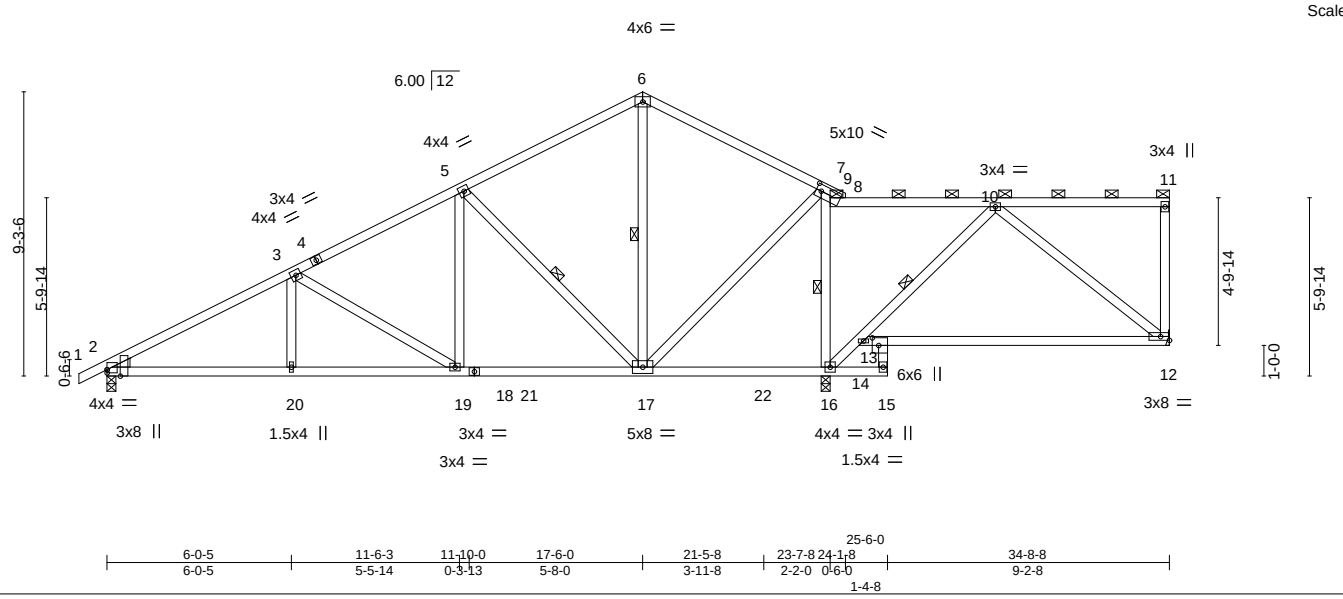
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A6	Roof Special	2	1		I62280228
Premier Building Supply (Springhill, KS),	Spring Hills, KS - 66083,				Job Reference (optional)	

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:08 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0 6-0-5 11-6-3 11-10-0 17-6-0 24-1-8 25-6-0 29-0-4 29-11-8 34-8-8
0-11-0 6-0-5 5-5-14 0-3-13 5-8-0 6-7-8 1-4-8 3-6-4 0-11-4 4-9-0

Scale = 1:75.3



6-0-5 11-6-3 11-10-0 17-6-0 21-5-8 23-7-8 24-1-8 25-6-0 34-8-8
6-0-5 5-5-14 0-3-13 5-8-0 3-11-8 2-2-0 0-6-0 1-4-8 9-2-8

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

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	0.71	Vert(LL)	-0.26	12-13	>509	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.53	12-13	>252	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 188 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
13-15: 2x4 SPF No.3
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Sheathed or 3-8-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
4-5-0 oc bracing: 7-9
4-8-0 oc bracing: 9-16
WEBS 1 Row at midpt 6-17, 10-16, 5-17

REACTIONS. (size) 12=Mechanical, 16=0-3-8, 2=0-3-8
Max Horz 2=253(LC 5)
Max Uplift 12=-109(LC 9), 16=-124(LC 9), 2=-180(LC 8)
Max Grav 12=235(LC 22), 16=2236(LC 2), 2=976(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1476/259, 3-5=-943/246, 5-6=-376/204, 6-7=-374/228, 7-8=-163/821, 8-10=-31/691
BOT CHORD 2-20=-335/1243, 19-20=-335/1243, 17-19=-219/789, 16-17=-673/0, 15-16=-337/0, 12-13=-271/0, 9-16=-1360/179, 7-9=-1638/270
WEBS 5-19=-4/477, 14-16=-634/115, 10-14=-682/130, 10-12=0/391, 3-19=-527/135, 3-20=0/262, 5-17=-791/227, 7-17=-22/1249

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) 12=109, 16=124, 2=180.
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.

November 30,2023

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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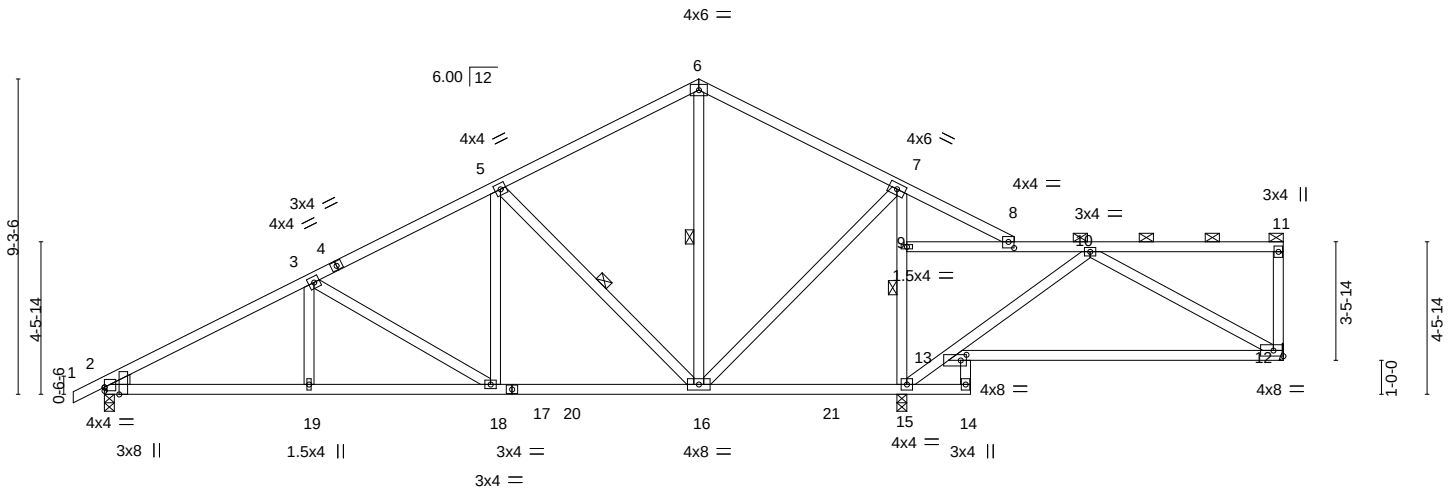
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A9	Roof Special	2	1		I62280229
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:09 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0	6-0-5	11-6-3	11-10-0	17-6-0	25-6-0	26-9-8	29-0-4	29-11-8	34-8-8
0-11-0	6-0-5	5-5-14	0-3-13	5-8-0	8-0-0	1-3-8	2-2-12	0-11-4	4-9-0

Scale = 1:67.8



6-0-5	11-6-3	11-10-0	17-6-0	21-5-8	23-7-8	25-6-0	26-9-8	34-8-8
6-0-5	5-5-14	0-3-13	5-8-0	3-11-8	2-2-0	1-10-8	1-3-8	7-11-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.32	12-13	>417	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.64	12-13	>207	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 189 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
13-14: 2x4 SPF No.3
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Sheathed or 3-7-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-11.
BOT CHORD Rigid ceiling directly applied or 3-9-12 oc bracing. Except:
4-9-0 oc bracing: 7-15
WEBS 1 Row at midpt 6-16, 5-16

REACTIONS. (size) 12=Mechanical, 15=0-3-8, 2=0-3-8
Max Horz 2=216(LC 5)
Max Uplift 12=-75(LC 5), 15=-160(LC 9), 2=-165(LC 8)
Max Grav 12=291(LC 22), 15=2048(LC 2), 2=1034(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1598/229, 3-5=-1051/216, 5-6=-466/173, 6-7=-460/196, 7-8=-54/572, 8-10=-38/441
BOT CHORD 2-19=-305/1363, 18-19=-305/1363, 16-18=-188/915, 15-16=-434/15, 9-15=-1417/188, 7-9=-1460/187
WEBS 5-18=-6/471, 13-15=-536/36, 10-13=-483/144, 10-12=-1/265, 3-18=-521/136, 3-19=0/262, 5-16=-786/229, 7-16=-58/1076

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) 12 except (jt=lb) 15=160, 2=165.
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.

November 30,2023

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
R230812	A10	Roof Special	2	1	Job Reference (optional)	I62280230

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:21 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

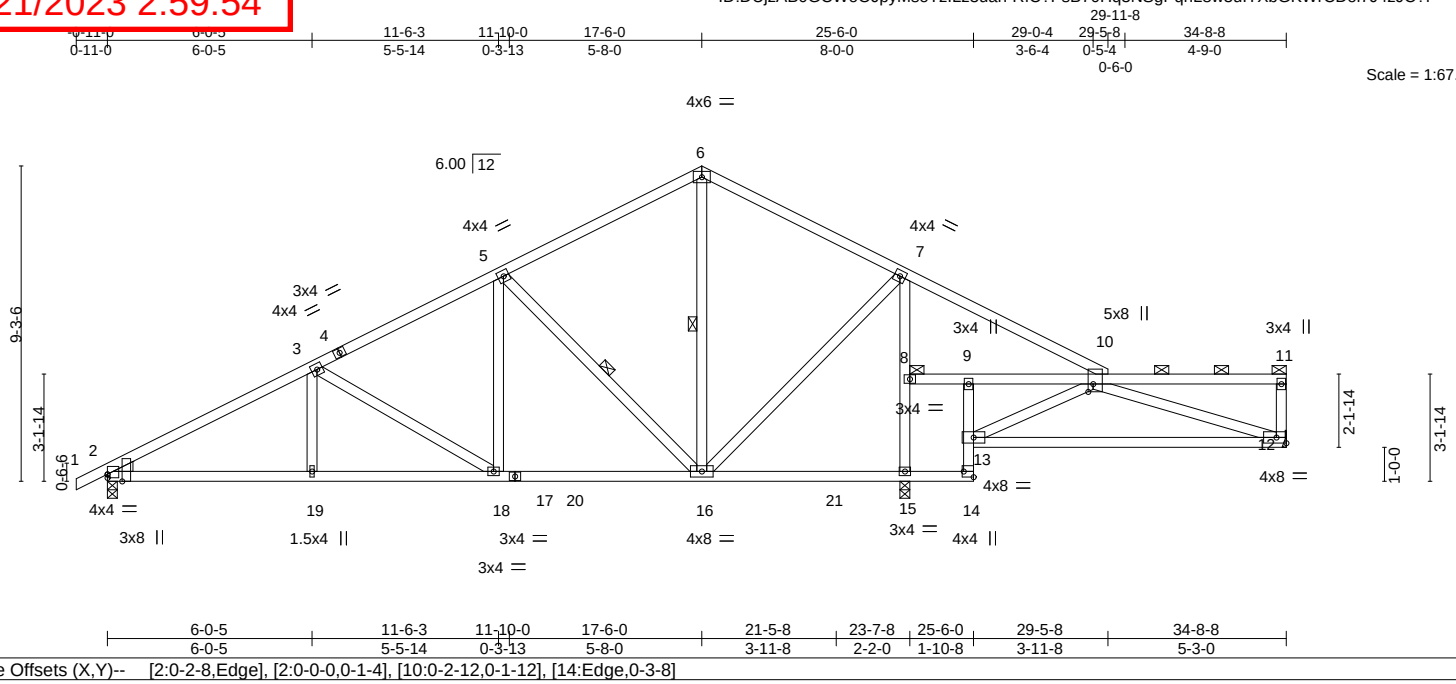

Plate Offsets (X,Y)-- [2:0-2-8,Edge], [2:0-0-0,0-1-4], [10:0-2-12,0-1-12], [14:Edge,0-3-8]

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	0.72	Vert(LL)	-0.23	12-13	>580	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.46	12-13	>289	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.03	15	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 189 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-14: 2x4 SPF No.3
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Sheathed or 3-6-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-16, 5-16
JOINTS 1 Brace at Jt(s): 8, 11

REACTIONS. (size) 12=Mechanical, 2=0-3-8, 15=0-3-8
Max Horz 2=189(LC 8)
Max Uplift 12=-64(LC 9), 2=-162(LC 8), 15=-166(LC 9)
Max Grav 12=329(LC 22), 2=1055(LC 2), 15=1961(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1642/223, 3-5=-1095/209, 5-6=-497/165, 6-7=-501/189, 7-10=-27/475
BOT CHORD 2-19=-295/1403, 18-19=-295/1403, 16-18=-178/957, 15-16=-341/34, 14-15=-286/21, 12-13=-155/286, 8-15=-1594/196, 7-8=-1472/187
WEBS 5-18=-7/468, 10-13=-483/226, 3-18=-518/136, 3-19=0/262, 5-16=-785/230, 7-16=-58/1015

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 64 lb uplift at joint 12, 162 lb uplift at joint 2 and 166 lb uplift at joint 15.
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.

November 30,2023

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Chesterfield, MO 63017
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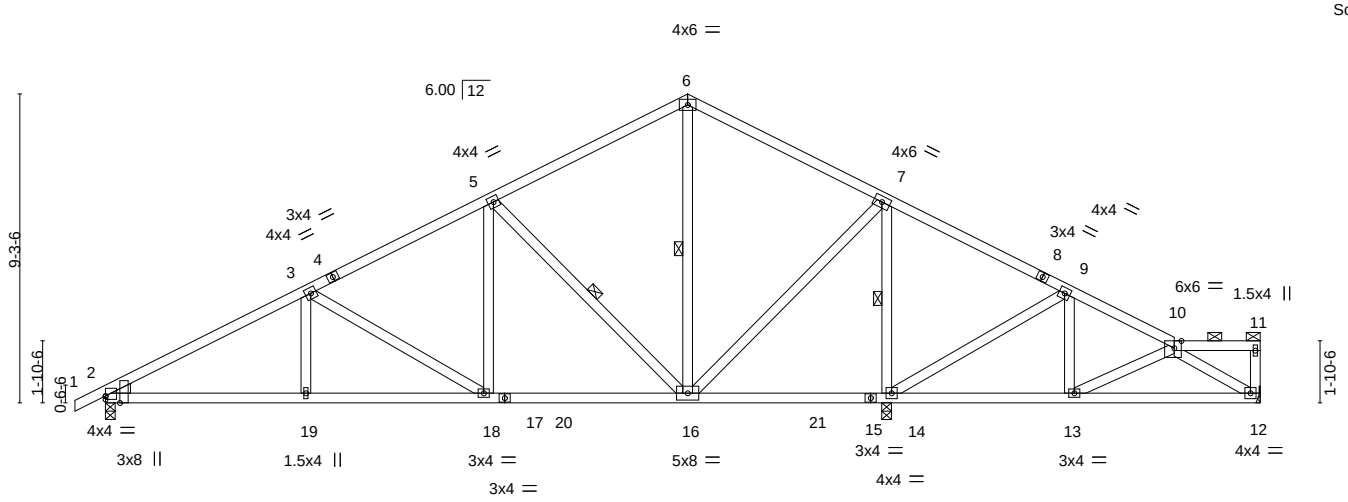
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280231
R230812	A01	Roof Special	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:22 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-6	6-0-5	11-6-3	17-6-0	23-5-13	28-11-11	32-1-8	34-8-8
0-11-6	6-0-5	5-5-14	5-11-13	5-11-13	5-5-14	3-1-13	2-7-0

Scale = 1:69.3



6-0-5	11-6-3	17-6-0	23-5-13	23-7-8	28-11-11	32-1-8	34-8-8
6-0-5	5-5-14	5-11-13	5-11-13	0-1-11	5-4-3	3-1-13	2-7-0

Plate Offsets (X,Y)-- [2:0-2-8,Edge], [2:0-0-0,0-1-4], [10:0-2-9,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	0.70	Vert(LL)	-0.07	2-19	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.14	2-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 182 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 3-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-14, 6-16, 5-16

REACTIONS. (size) 12=Mechanical, 14=0-3-8, 2=0-3-8
Max Horz 2=165(LC 12)
Max Uplift 12=-51(LC 9), 14=-178(LC 9), 2=-146(LC 8)
Max Grav 12=340(LC 22), 14=2030(LC 2), 2=1033(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1597/189, 3-5=-1048/174, 5-6=-453/130, 6-7=-454/152, 7-9=-33/583, 9-10=-268/167
BOT CHORD 2-19=-242/1374, 18-19=-242/1374, 16-18=-123/925, 14-16=-451/113, 12-13=-78/332
WEBS 7-16=-102/1109, 7-14=-1537/204, 9-14=-572/126, 9-13=0/282, 10-12=-368/99, 5-16=-783/231, 5-18=-9/465, 3-18=-521/138, 3-19=0/263

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 51 lb uplift at joint 12, 178 lb uplift at joint 14 and 146 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.

November 30,2023

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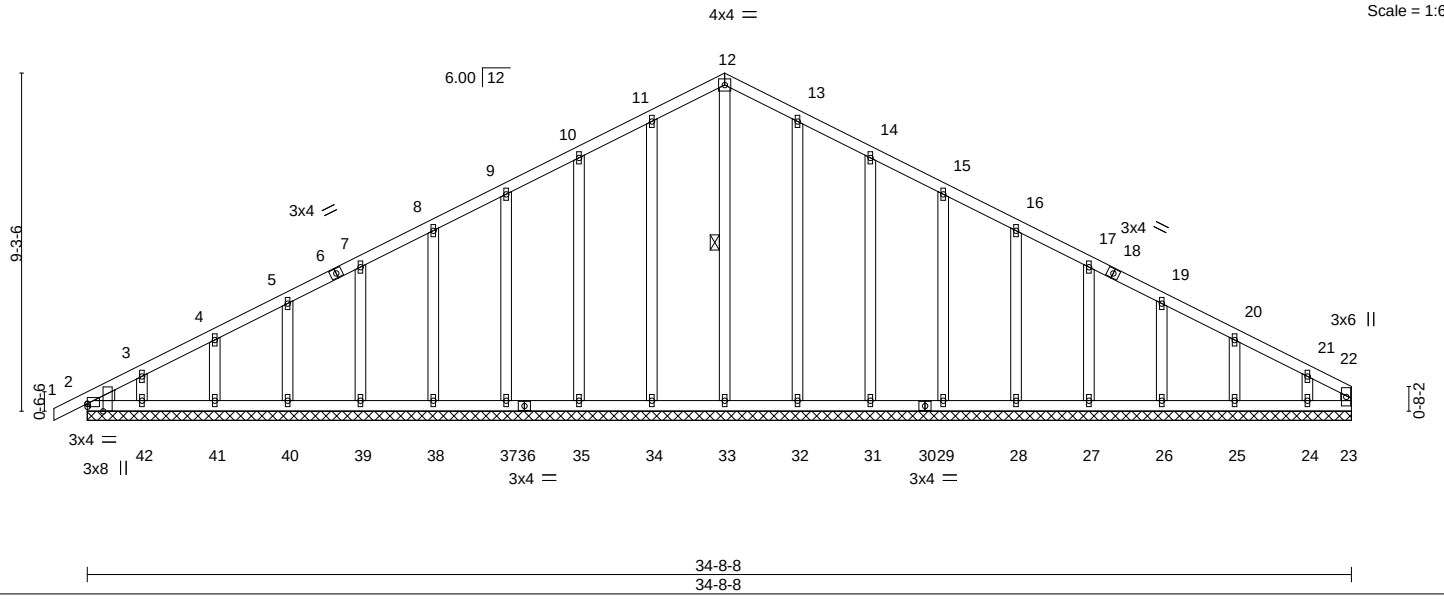
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280232
P230812	A02	Common Supported Gable	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:24 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-11-0 17-6-0 34-8-8
6-11-0 17-6-0 17-2-8

Scale = 1:63.3



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	0.09	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	0.20	Horz(CT)	0.01	23	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
OTHERS 2x4 SPF No.3
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) 23, 2, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25 except 24=-108(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) 23, 2, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25 except (jt=lb) 24=108.
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.

November 30,2023

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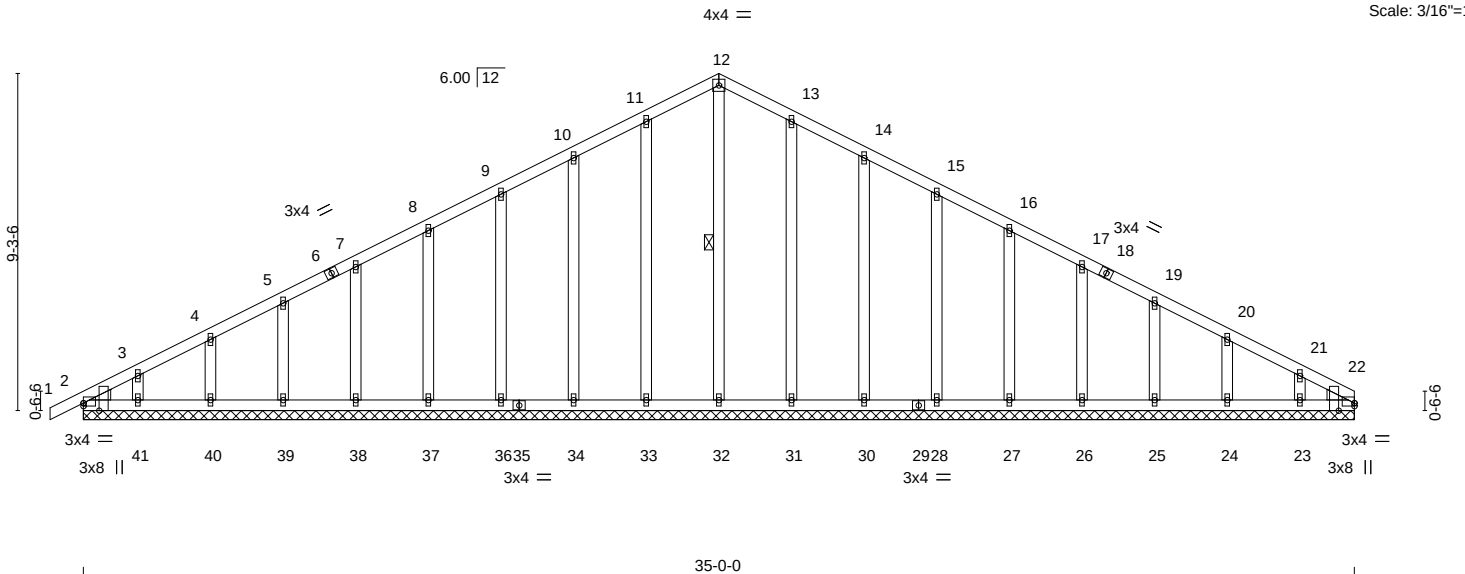
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A02	Common Supported Gable	2	1	Job Reference (optional)	I62280233

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:26 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

Scale: 3/16"=1'



35-0-0
35-0-0

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	0.20	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 201 lb	FT = 20%

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

November 30,2023

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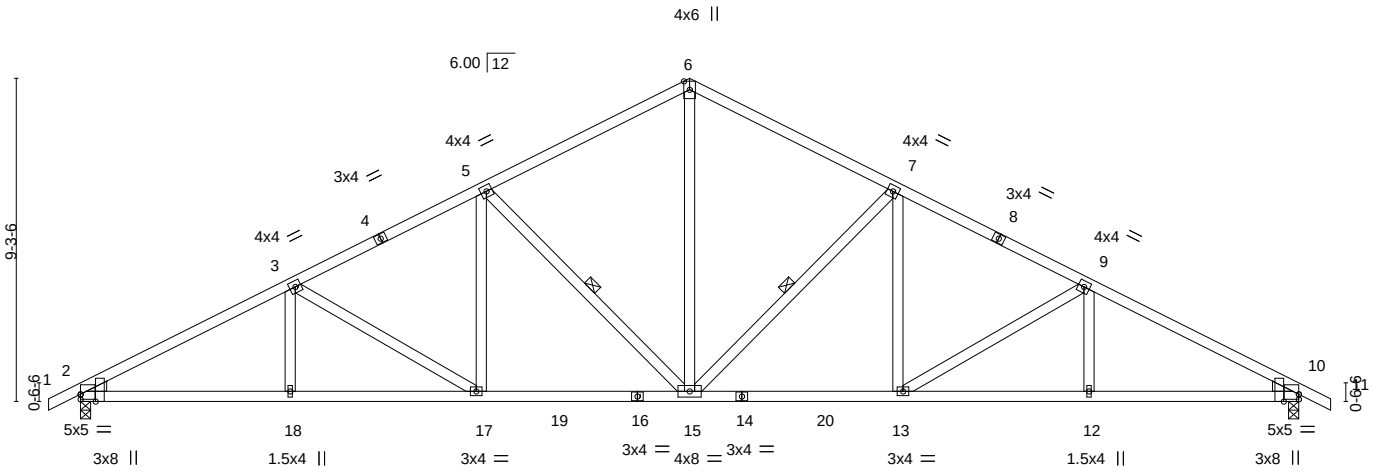
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280234
P230812	A04	Common	6	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:28 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0	6-0-5	11-6-3	17-6-0	23-5-13	28-11-11	35-0-0	35-11-0
0-11-0	6-0-5	5-5-14	5-11-13	5-11-13	5-5-14	6-0-5	0-11-0

Scale = 1:66.2



6-0-5	11-6-3	17-6-0	23-5-13	28-11-11	35-0-0
6-0-5	5-5-14	5-11-13	5-11-13	5-5-14	6-0-5

Plate Offsets (X,Y)-- [2:0-0-0,0-1-12], [2:0-2-8,Edge], [10:0-0-0,0-1-12], [10:0-2-8,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	0.89	Vert(LL)	-0.20	15-17	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.34	15-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.14	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
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-
TOP CHORD Sheathed.
BOT CHORD Rigid ceiling directly applied or 9-10-8 oc bracing.
WEBS 1 Row at midpt 7-15, 5-15

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=157(LC 12)
Max Uplift 2=-196(LC 8), 10=-196(LC 9)
Max Grav 2=1699(LC 2), 10=1699(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2995/311, 3-5=-2484/286, 5-6=-1896/262, 6-7=-1896/262, 7-9=-2484/286, 9-10=-2995/312
BOT CHORD 2-18=-347/2565, 17-18=-347/2565, 15-17=-211/2159, 13-15=-73/2159, 12-13=-191/2565, 10-12=-191/2565
WEBS 7-15=-777/230, 7-13=-12/466, 6-15=-114/1317, 9-13=-485/159, 5-15=-777/230, 5-17=-12/466, 3-17=-485/158

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, 10=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.

November 30,2023

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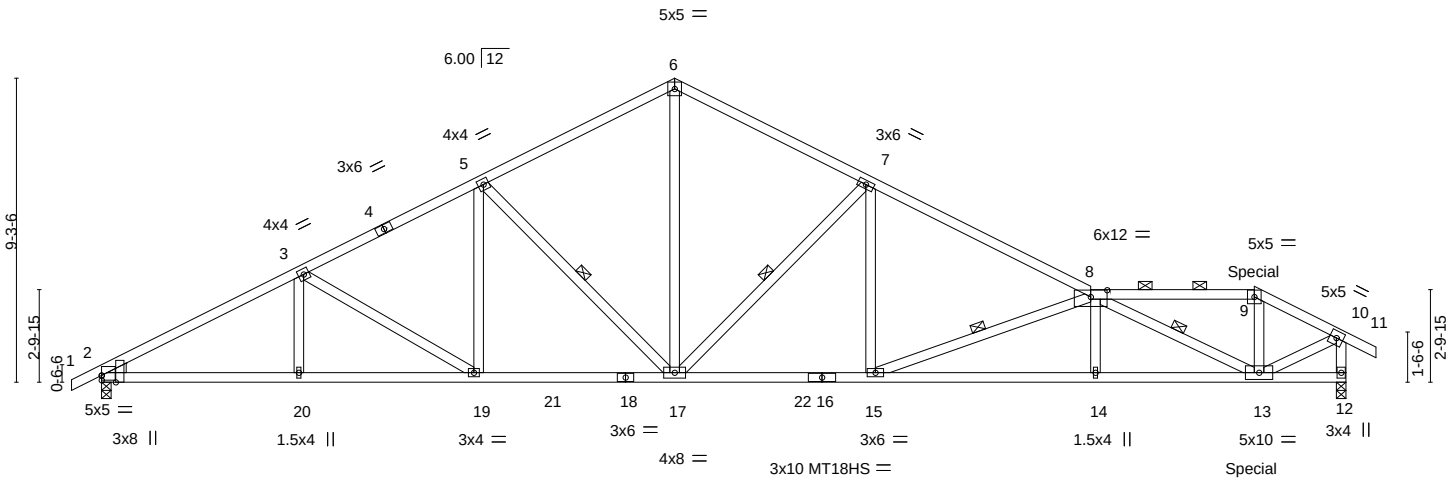
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280235
P230812	A05	Roof Special Girder	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:30 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

	6-11-0	11-6-3	17-6-0	23-5-13	28-11-11	30-2-7	35-2-7	38-0-0	38-11-0
	6-11-0	5-5-14	5-11-13	5-11-13	5-5-14	1-2-12	4-11-15	2-9-9	0-11-0

Scale = 1:70.4



	6-0-5	11-6-3	17-6-0	23-5-13	23-7-9	28-11-11	30-2-7	35-2-7	38-0-0
	6-0-5	5-5-14	5-11-13	5-11-13	0-1-12	5-4-2	1-2-12	4-11-15	2-9-9

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

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	1.00	Vert(LL)	-0.32	14-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.58	14-15	>786	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.17	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 199 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-8: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP 1650F 1.5E *Except*
16-18: 2x4 SP No.2
WEBS 2x4 SPF No.3 *Except*
10-12: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed, except end verticals, and 2-0-0 oc purlins (3-11-14 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-17, 8-15, 5-17, 8-13

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=156(LC 12)
Max Uplift 2=-208(LC 8), 12=-284(LC 9)
Max Grav 2=1840(LC 2), 12=1833(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3286/336, 3-5=-2786/311, 5-6=-2201/303, 6-7=-2203/288, 7-8=-3127/355, 8-9=-1653/280, 9-10=-1903/289, 10-12=-1805/292
BOT CHORD 2-20=-367/2820, 19-20=-367/2820, 17-19=-232/2428, 15-17=-190/2722, 14-15=-470/4238, 13-14=-466/4249
WEBS 7-17=-1175/288, 7-15=-33/847, 8-15=-1624/301, 6-17=-155/1595, 5-17=-774/230, 5-19=-11/462, 8-13=-2904/302, 9-13=-63/604, 10-13=-243/1872, 3-19=-473/160

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) 2=208, 12=284.
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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 154 lb down and 98 lb up at 35-2-7 on top chord, and 37 lb down and 41 lb up at 35-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

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LOAD CASE(S) Standard

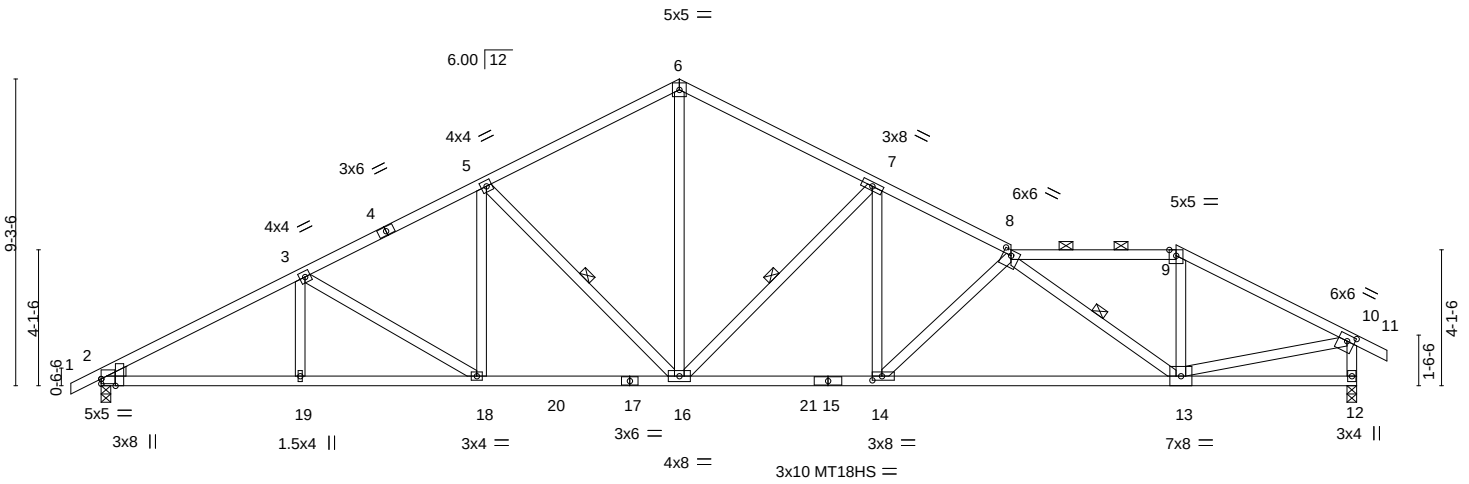
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 6-8=-70, 8-9=-70, 9-10=-70, 10-11=-70, 2-12=-20
   Concentrated Loads (lb)
   Vert: 13=3(F)

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280236
P230812	A10	Roof Special	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:31 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0	6-0-5	11-6-3	17-6-0	23-5-13	27-6-7	32-6-7	35-2-7	38-0-0	38-11-0
0-11-0	6-0-5	5-5-14	5-11-13	5-11-13	4-0-10	4-11-15	2-8-0	2-9-9	0-11-0

Scale = 1:69.7



6-0-5	11-6-3	17-6-0	23-5-13	27-6-7	32-6-7	38-0-0
6-0-5	5-5-14	5-11-13	5-11-13	4-0-10	4-11-15	5-5-9

Plate Offsets (X,Y)-- [2:0-2-8,Edge], [2:0-0-0,0-1-12], [8:0-3-0,0-1-14], [10:0-2-12,0-2-4], [14:0-3-8,0-1-8]

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	0.95	Vert(LL)	-0.31	13-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.64	13-14	>711	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.15	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 200 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-4: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP 1650F 1.5E *Except*
15-17: 2x4 SP No.2
WEBS 2x4 SPF No.3 *Except*
10-12: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Sheathed, except end verticals, and 2-0-0 oc purlins (3-4-6 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-16, 5-16, 8-13

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=156(LC 12)
Max Uplift 2=-201(LC 8), 12=-227(LC 9)
Max Grav 2=1840(LC 2), 12=1835(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3270/323, 3-5=-2787/296, 5-6=-2202/295, 6-7=-2197/272, 7-8=-3088/348, 8-9=-2112/278, 9-10=-2454/269, 10-12=-1778/241
BOT CHORD 2-19=-356/2821, 18-19=-356/2821, 16-18=-218/2429, 14-16=-164/2708, 13-14=-319/3390
WEBS 7-16=-1153/262, 7-14=-62/941, 6-16=-136/1576, 5-16=-775/227, 8-13=-1602/179, 9-13=0/752, 5-18=-10/466, 3-18=-474/160, 8-14=-945/214, 10-13=-114/2085

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) 2=201, 12=227.
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.

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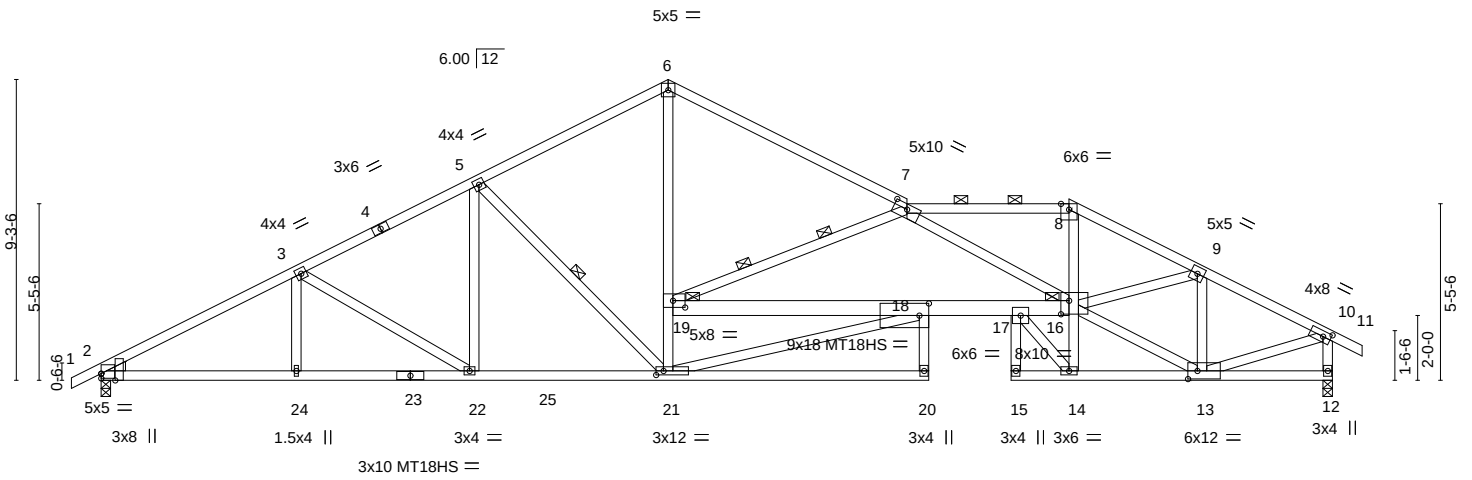
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280237
P230812	A07	Roof Special	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:33 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

	6-0-5	11-6-3	17-6-0	23-5-13	24-10-7	29-10-7	33-11-12	38-0-0	38-11-0
0-11-0	6-0-5	5-5-14	5-11-13	5-11-13	1-4-10	5-0-0	4-1-5	4-0-5	0-11-0

Scale = 1:71.1



	6-0-5	11-6-3	17-6-0	23-5-13	24-10-7	29-10-7	33-11-12	38-0-0
	6-0-5	5-5-14	5-11-13	5-11-13	1-4-10	5-0-0	4-1-5	4-0-5

Plate Offsets (X,Y)-- [2:0-2-8,Edge], [2:0-0-0,0-1-12], [7:0-5-0,0-1-14], [10:0-2-15,0-2-0], [13:0-3-8,0-3-0], [16:0-3-0,0-5-0], [18:0-3-8,0-4-8], [19:0-4-8,0-2-8], [21:0-2-12,0-1-8]

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	0.94	Vert(LL)	-0.55	18-19	>829	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.90	18-19	>502	180	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.34	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 244 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-7: 2x4 SP 2400F 2.0E, 1-4: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP 1650F 1.5E *Except*
12-15: 2x4 SP No.2, 16-19: 2x6 SP 2400F 2.0E, 15-17: 2x4 SPF No.3
WEBS 2x4 SPF No.3 *Except*
8-14,10-12,9-16,13-16: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-

TOP CHORD Sheathed, except end verticals, and 2-0-0 oc purlins (2-2-8 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 14-15,13-14,15-17.
WEBS 1 Row at midpt 5-21
2 Rows at 1/3 pts 7-19
JOINTS 1 Brace at Jt(s): 19, 16

REACTIONS. (size) 12=0-3-8, 2=0-3-8
Max Horz 2=156(LC 8)
Max Uplift 12=-227(LC 9), 2=-201(LC 8)
Max Grav 12=1902(LC 2), 2=1884(LC 2)

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

TOP CHORD 2-3=-3389/320, 3-5=-2885/295, 5-6=-2306/293, 6-7=-2335/265, 7-8=-4281/349, 8-9=-4776/357, 9-10=-2292/269, 10-12=-1824/245
BOT CHORD 13-14=-711/0, 2-24=-354/2911, 22-24=-354/2911, 21-22=-217/2516, 20-21=0/259, 18-19=-399/2705, 17-18=-381/4669, 16-17=-256/5496
WEBS 7-19=-2906/436, 19-21=-50/459, 6-19=-104/1636, 5-21=-767/227, 7-16=-591/223, 14-16=0/1115, 8-16=-44/1810, 5-22=-13/459, 3-22=-478/159, 9-16=0/2339, 14-17=-1207/0, 18-21=-82/1763, 13-16=-91/3034, 9-13=-1907/154, 10-13=-183/2015

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) 12=227, 2=201.
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.

November 30,2023

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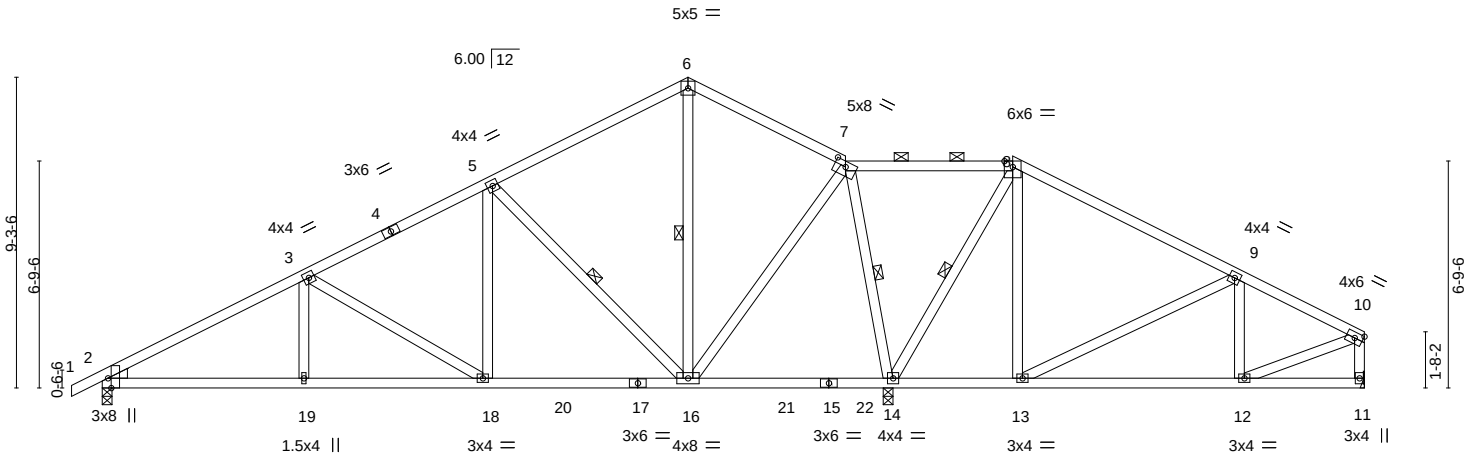
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A02	Roof Special	2	1	Job Reference (optional)	I62280238

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:34 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

	6-0-5	11-6-3	17-6-0	22-2-7	27-2-7	33-11-11	37-8-8
0-11-0	6-0-5	5-5-14	5-11-13	4-8-7	4-11-15	6-9-5	3-8-13

Scale = 1:68.8



	6-0-5	11-6-3	22-2-7	23-5-12	27-2-7	33-11-11	37-8-8
	6-0-5	5-5-14	10-8-5	1-3-5	3-8-11	6-9-5	3-8-13

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

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)	-0.09	14-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.14	14-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 206 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3 *Except*
10-11: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Sheathed or 4-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-16, 5-16, 7-14, 8-14

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 11=Mechanical
Max Horz 2=165(LC 8)
Max Uplift 2=-135(LC 8), 14=-198(LC 9), 11=-78(LC 9)
Max Grav 2=978(LC 2), 14=2267(LC 2), 11=466(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1505/185, 3-5=-952/156, 5-6=-343/129, 6-7=-315/131, 7-8=-27/648, 8-9=-148/311, 9-10=-498/100, 10-11=-445/88
BOT CHORD 2-19=-245/1306, 18-19=-245/1306, 16-18=-103/835, 14-16=-393/129, 13-14=-260/140, 12-13=-81/433
WEBS 5-16=-804/233, 5-18=-15/494, 7-14=-1254/194, 8-14=-926/157, 8-13=-11/380, 9-13=-527/154, 10-12=-78/464, 3-18=-547/165, 7-16=-115/1057

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) 11 except (jt=lb) 2=135, 14=198.
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.

November 30,2023

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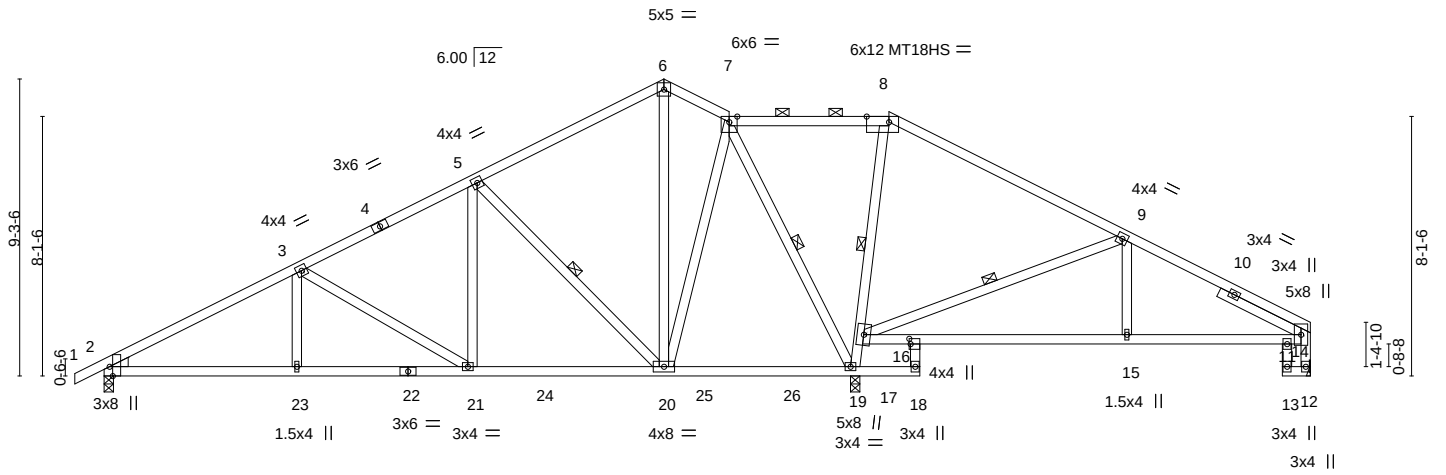
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280239
P230812	A09	Roof Special	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:36 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0	6-0-5	11-6-3	17-6-0	19-6-7	24-6-7	25-6-0	31-11-11	37-8-8
0-11-0	6-0-5	5-5-14	5-11-13	2-0-7	4-11-15	0-11-9	6-5-11	5-8-13

Scale = 1:72.0



6-0-5	11-6-3	19-6-7	23-5-12	25-6-0	31-11-11	37-8-8
6-0-5	5-5-14	8-0-5	3-11-5	2-0-4	6-5-11	5-8-13

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [8:0-8-6,Edge], [16:0-2-0,0-0-8]

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	0.89	Vert(LL)	-0.07	21-23	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.14	21-23	>999	180	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 209 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 2-10-11

BRACING-
TOP CHORD Sheathed or 4-2-11 oc purlins, except
2-0-0 oc purlins (10-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-20, 7-19, 8-19, 9-17

REACTIONS. (size) 2=0-3-8, 19=0-3-8, 12=Mechanical
Max Horz 2=190(LC 8)
Max Uplift 2=-179(LC 8), 19=-84(LC 9), 12=-147(LC 9)
Max Grav 2=1007(LC 2), 19=2218(LC 2), 12=457(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1570/274, 3-5=-1021/246, 5-6=-424/224, 6-7=-349/232, 7-8=0/497, 8-9=0/538, 9-11=-607/256
BOT CHORD 2-23=-347/1346, 21-23=-347/1346, 20-21=-208/881, 18-19=-304/0, 16-17=-157/674, 15-16=-162/472, 14-15=-162/472, 11-14=-122/420, 11-12=-463/150
WEBS 5-20=-814/225, 5-21=-7/506, 7-19=-1180/135, 17-19=-884/170, 8-17=-588/95, 9-17=-775/207, 9-15=0/260, 3-21=-540/162, 7-20=0/789

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) 19 except (jt=lb) 2=179, 12=147.
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.

November 30,2023

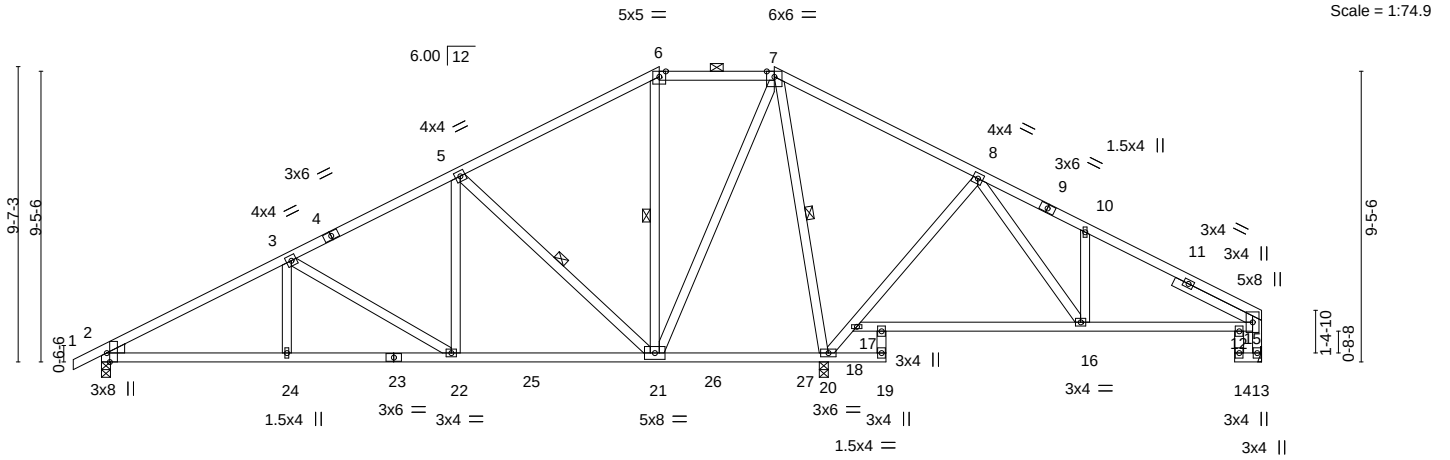
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A00	Roof Special	1	1		I62280240
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:50 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-6	6-0-5	11-6-3	18-1-9	19-6-7	21-10-7	28-5-13	31-11-11	37-8-8
0-11-0	6-0-5	5-5-14	6-7-6	1-4-14	2-4-0	6-7-6	3-5-14	5-8-13

Scale = 1:74.9



6-0-5	11-6-3	18-1-9	23-5-12	25-6-0	31-11-11	37-8-8
6-0-5	5-5-14	6-7-6	5-4-3	2-0-4	6-5-11	5-8-13

Plate Offsets (X,Y)-- [2:0-3-8,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	0.82	Vert(LL)	-0.08	21-22	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.15	21-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.08	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 208 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 2-10-11

BRACING-
TOP CHORD Sheathed or 3-11-11 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-21, 5-21, 7-20

REACTIONS. (size) 2=0-3-8, 20=0-3-8, 13=Mechanical
Max Horz 2=194(LC 8)
Max Uplift 2=-182(LC 8), 20=-60(LC 8), 13=-133(LC 9)
Max Grav 2=1014(LC 21), 20=2315(LC 2), 13=389(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1570/274, 3-5=-1044/250, 5-6=-421/204, 6-7=-284/227, 7-8=0/684, 8-10=-356/275, 10-12=-430/198
BOT CHORD 2-24=-348/1301, 22-24=-348/1301, 21-22=-218/861, 20-21=-272/97, 15-16=-100/290, 12-13=-362/119
WEBS 6-21=-252/40, 5-21=-846/230, 5-22=0/509, 7-21=-129/1080, 7-20=-1571/95, 18-20=-635/222, 8-18=-628/238, 3-22=-522/151, 8-16=-65/575

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) 20 except (jt=lb) 2=182, 13=133.
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.

November 30,2023

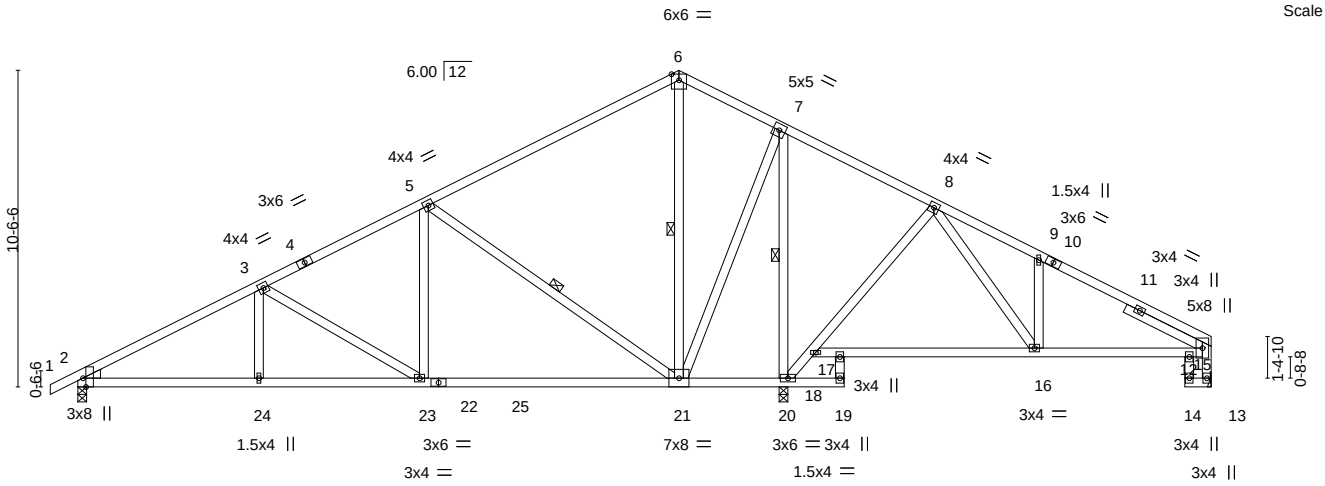
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280241
P230812	A01	Roof Special	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:52 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0	6-0-5	11-6-3	20-0-0	23-5-12	28-5-13	31-11-11	37-8-8
0-11-0	6-0-5	5-5-14	8-5-13	3-5-12	5-0-1	3-5-14	5-8-13

Scale = 1:76.7



6-0-5	11-6-3	23-5-12	25-6-0	31-11-11	37-8-8
6-0-5	5-5-14	11-11-9	2-0-4	6-5-11	5-8-13

Plate Offsets (X,Y)-- [2:0-3-8,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	0.78	Vert(LL)	-0.20	21-23	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.39	21-23	>727	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.08	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 210 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 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 2-10-11

BRACING-
TOP CHORD Sheathed or 3-8-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-21, 5-21, 7-20

REACTIONS. (size) 2=0-3-8, 20=0-3-8, 13=Mechanical
Max Horz 2=211(LC 8)
Max Uplift 2=-183(LC 8), 20=-88(LC 8), 13=-131(LC 9)
Max Grav 2=1005(LC 21), 20=2285(LC 2), 13=394(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1540/269, 3-5=-1028/263, 5-6=-251/213, 7-8=0/650, 8-9=-398/287, 9-12=-450/200
BOT CHORD 2-24=-359/1267, 23-24=-359/1267, 21-23=-253/862, 20-21=-513/74, 15-16=-102/311, 12-15=-56/253, 12-13=-373/121
WEBS 6-21=-392/0, 5-21=-990/288, 5-23=0/513, 7-21=-60/1306, 7-20=-1664/104, 18-20=-613/177, 8-18=-560/197, 9-16=-291/151, 3-23=-497/122, 3-24=0/256, 8-16=-90/628

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) 20 except (jt=lb) 2=183, 13=131.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

November 30,2023

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

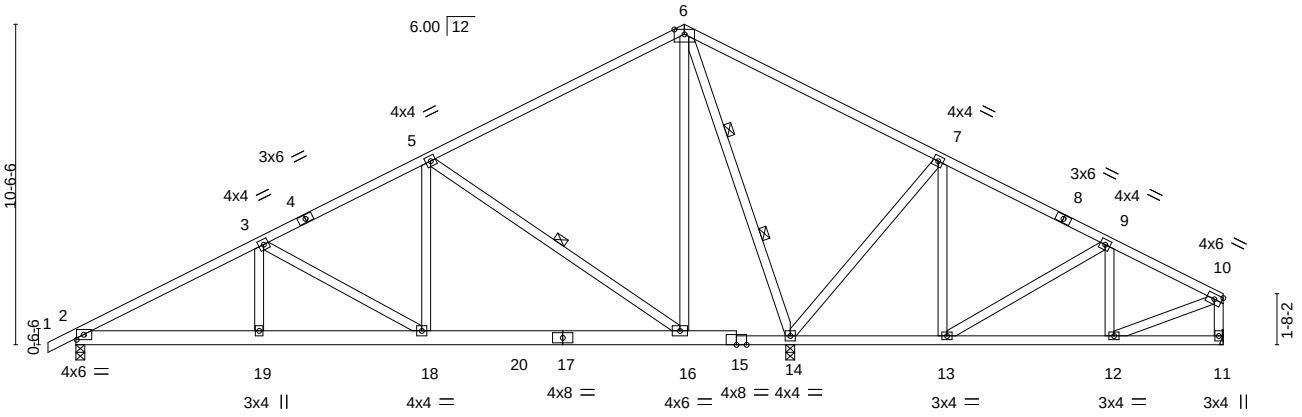
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A02	Common	2	1		I62280242
Premier Building Supply (Springhill, KS),	Spring Hills, KS - 66083,				Job Reference (optional)	

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:53 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0	6-0-5	11-6-3	20-0-0	28-5-13	33-11-11	37-8-8
0-11-0	6-0-5	5-5-14	8-5-13	8-5-13	5-5-14	3-8-13

Scale = 1:75.7

5x8 MT18HS



6-0-5	11-6-3	20-0-0	23-5-12	28-5-13	30-5-6	33-11-11	37-8-8
6-0-5	5-5-14	8-5-13	3-5-12	5-0-1	1-11-9	3-6-5	3-8-13

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

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	0.82	Vert(LL)	-0.26	16-18	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.50	16-18	>555	180	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 209 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP 1650F 1.5E *Except*
	1-4,8-10: 2x4 SP No.2
BOT CHORD	2x6 SPF No.2 *Except*
	11-15: 2x4 SP No.2
WEBS	2x4 SPF No.3 *Except*
	10-11: 2x4 SP No.2

BRACING-

TOP CHORD	Sheathed or 4-2-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	6-0-0 oc bracing: 14-16,13-14.
WEBS	1 Row at midpt 5-16
	2 Rows at 1/3 pts 6-14

REACTIONS. (size) 2=0-3-8, 11=Mechanical, 14=0-3-8
Max Horz 2=187(LC 12)
Max Uplift 2=-143(LC 8), 11=-69(LC 9), 14=-198(LC 8)
Max Grav 2=992(LC 23), 11=467(LC 22), 14=2225(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1498/202, 3-5=-1086/150, 6-7=0/693, 7-9=-253/222, 9-10=-477/82, 10-11=-437/84
BOT CHORD 2-19=-273/1299, 18-19=-273/1299, 16-18=-128/972, 12-13=-56/388
WEBS 3-18=-415/167, 5-18=0/620, 5-16=-1100/261, 6-16=-62/866, 7-13=0/397, 10-12=-43/391, 9-13=-331/91, 7-14=-785/245, 6-14=-1661/174

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) 11 except (jt=lb) 2=143, 14=198.
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.

November 30,2023

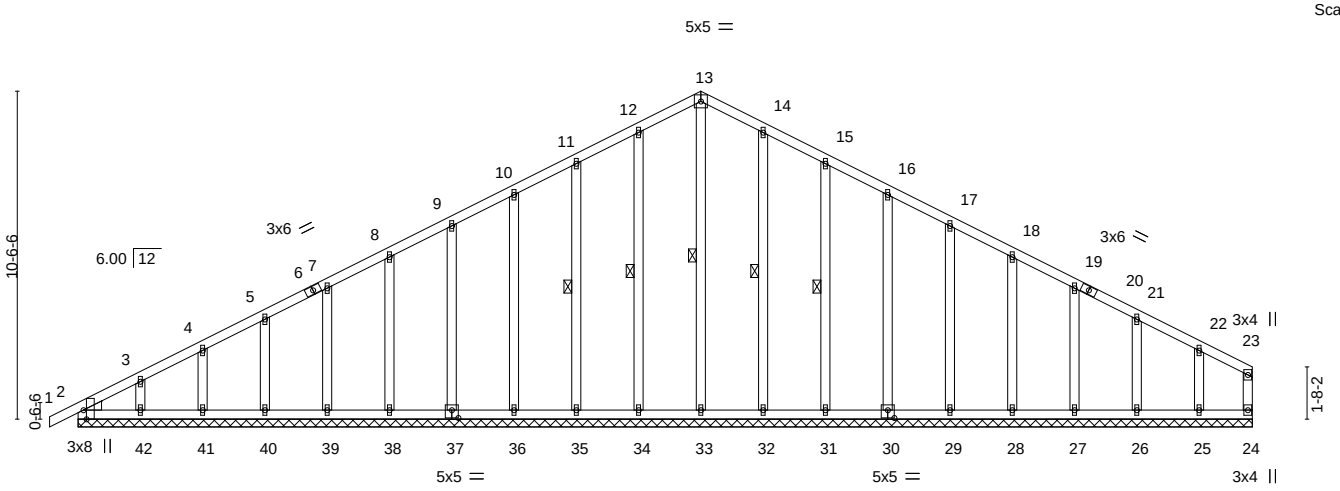
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A02	GABLE	2	1		I62280243
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:55 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0 20-0-0 37-8-8
0-11-0 20-0-0 17-8-8

Scale = 1:74.0



37-8-8
37-8-8

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [30:0-2-8,0-3-0], [37:0-2-8,0-3-0]

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	0.09	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	1	n/r	90		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	24	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 235 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
OTHERS 2x4 SPF No.3
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 13-33, 12-34, 11-35, 14-32, 15-31

REACTIONS. All bearings 37-8-8.
(lb) - Max Horz 2=186(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 34, 35, 36, 37, 38, 39, 40, 41, 42, 32, 31, 30, 29, 28, 27, 26, 2 except 25=-102(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 24, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 32, 31, 30, 29, 28, 27, 26, 25, 2

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-67/274, 11-12=-56/300, 12-13=-49/319, 13-14=-48/311, 14-15=-44/273

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, 37, 38, 39, 40, 41, 42, 32, 31, 30, 29, 28, 27, 26, 2 except (jt=lb) 25=102.
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
NATHANIEL FOX
NUMBER PE-2022042259
PROFESSIONAL ENGINEER

November 30,2023

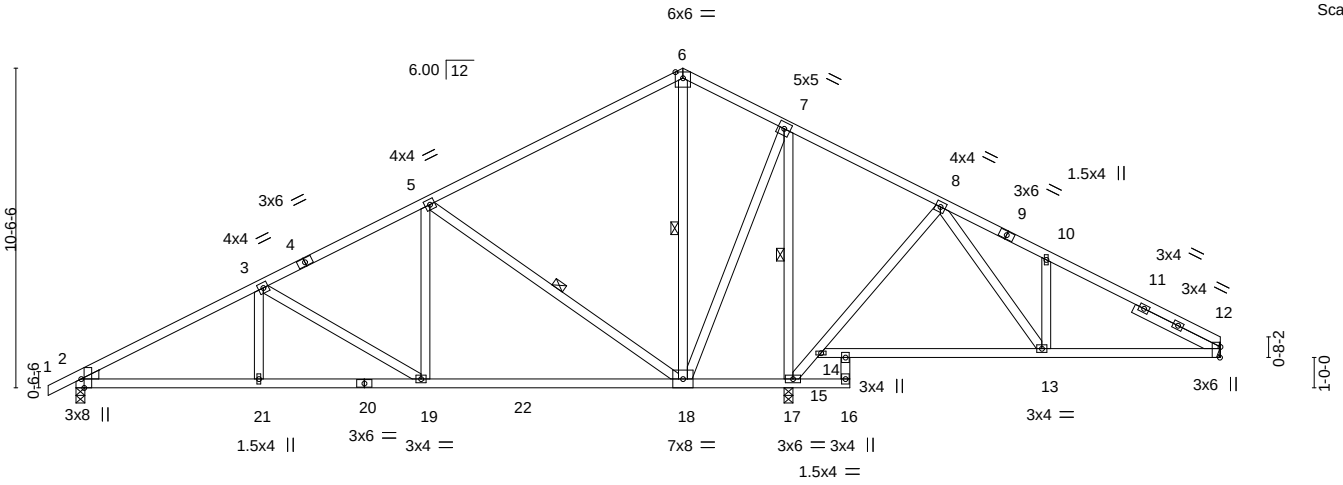
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280244
P230812	A04	Roof Special	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:57 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-11-0	11-6-3	20-0-0	23-5-12	25-6-0	28-5-13	31-5-8	31-11-11	37-8-8
6-11-0	5-5-14	8-5-13	3-5-12	2-0-4	2-11-13	2-11-11	0-6-3	5-8-13

Scale = 1:75.9



6-0-5	11-6-3	20-1-12	23-5-12	25-6-0	31-5-8	31-11-11	37-8-8
6-0-5	5-5-14	8-7-9	3-4-0	2-0-4	5-11-8	0-6-3	5-8-13

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [12:0-4-3,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	0.78	Vert(LL)	-0.19	18-19	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.35	18-19	>804	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.05	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 206 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-6: 2x4 SP 1650F 1.5E
BOT CHORD 2x4 SP No.2 *Except*
14-16: 2x4 SPF No.3
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-1-13

BRACING-
TOP CHORD Sheathed or 3-8-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-18, 5-18, 7-17

REACTIONS. (size) 2=0-3-8, 12=Mechanical, 17=0-3-8
Max Horz 2=204(LC 8)
Max Uplift 2=-185(LC 8), 12=-138(LC 9), 17=-84(LC 8)
Max Grav 2=1006(LC 21), 12=409(LC 22), 17=2285(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1534/279, 3-5=-1039/260, 5-6=-252/221, 7-8=0/653, 8-10=-429/308, 10-12=-485/217
BOT CHORD 2-21=-360/1259, 19-21=-360/1259, 18-19=-244/871, 17-18=-508/77, 12-13=-106/334
WEBS 6-18=-389/0, 5-18=-1008/279, 7-17=-1660/105, 15-17=-608/178, 8-15=-557/194, 5-19=0/532, 7-18=-59/1296, 10-13=-314/162, 3-19=-464/134, 8-13=-105/658

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) 17 except (jt=lb) 2=185, 12=138.
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.

November 30,2023

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280245
P230812	A05	Hip	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:40:58 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

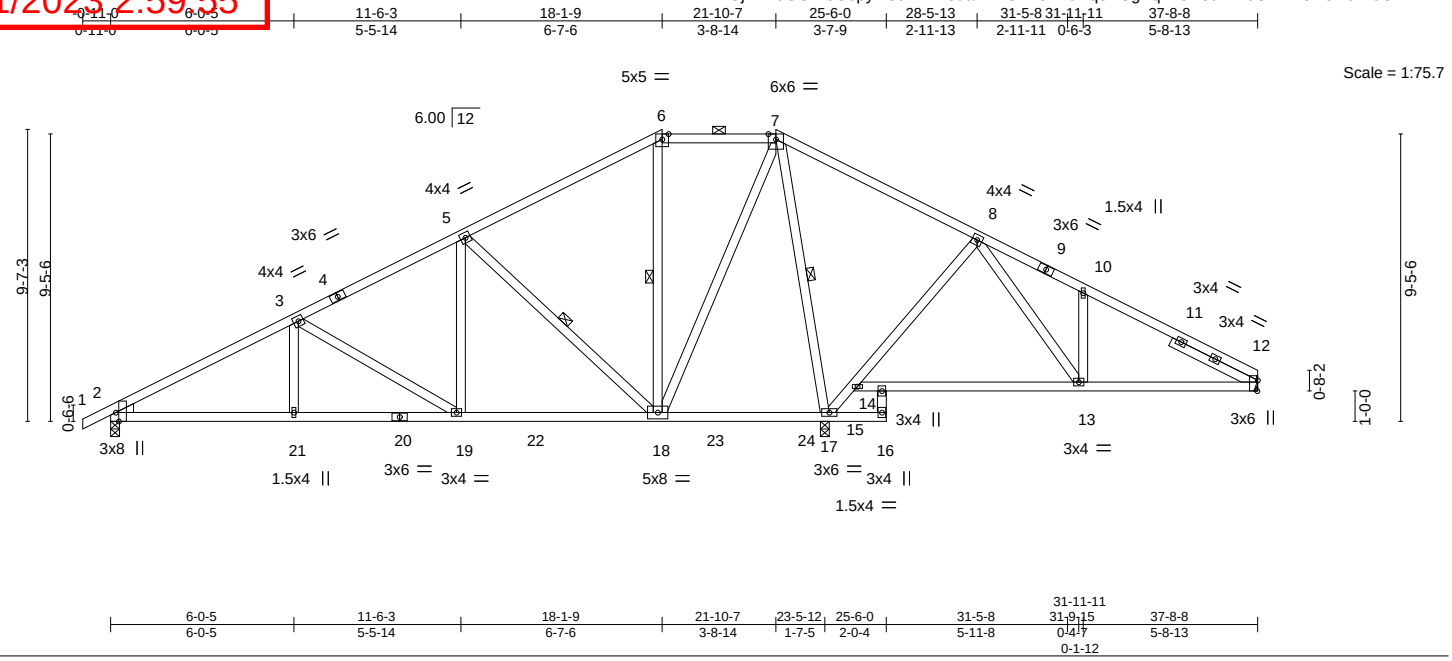

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [12:0-4-3,Edge]

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	0.82	Vert(LL)	-0.08	18-19	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.15	18-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.04	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 205 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
14-16: 2x4 SPF No.3
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-1-13

BRACING-
TOP CHORD Sheathed or 3-11-11 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-18, 5-18, 7-17

REACTIONS. (size) 2=0-3-8, 12=Mechanical, 17=0-3-8
Max Horz 2=187(LC 8)
Max Uplift 2=-185(LC 8), 12=-140(LC 9), 17=-55(LC 8)
Max Grav 2=1014(LC 21), 12=402(LC 22), 17=2321(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1569/278, 3-5=-1042/254, 5-6=-419/208, 6-7=-283/231, 7-8=0/693, 8-10=-371/291, 10-12=-457/212
BOT CHORD 2-21=-345/1299, 19-21=-345/1299, 18-19=-215/860, 17-18=-274/101, 12-13=-101/302
WEBS 6-18=-253/39, 5-18=-846/230, 5-19=0/509, 7-18=-126/1081, 15-17=-641/224, 8-15=-633/240, 7-17=-1574/91, 10-13=-252/127, 3-19=-522/151, 8-13=-70/589

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) 17 except (jt=lb) 2=185, 12=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.

November 30,2023

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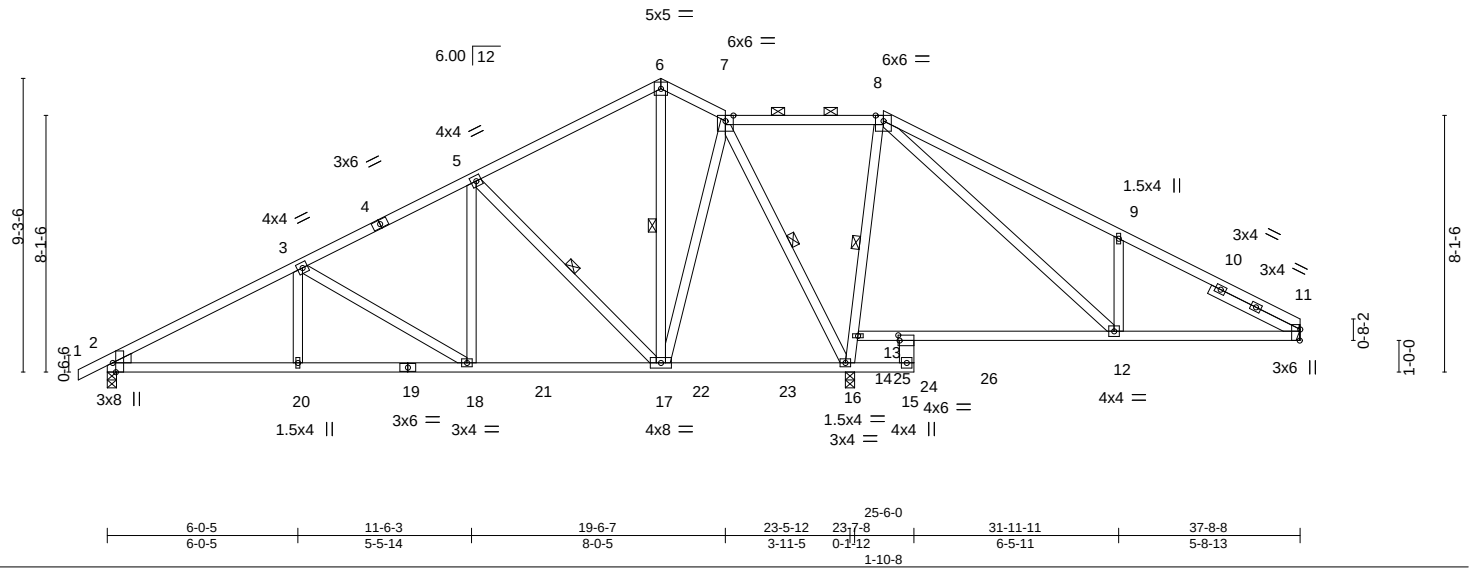
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280246
P230812	A06	Roof Special	1	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:00 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-5 6-0-5 11-6-3 17-6-0 19-6-7 24-6-7 25-6-0 31-11-11 37-8-8
0-11-5 6-0-5 5-5-14 5-11-13 2-0-7 4-11-15 0-11-9 6-5-11 5-8-13

Scale = 1:72.8



6-0-5 11-6-3 19-6-7 23-5-12 23-7-8 25-6-0 31-11-11 37-8-8
6-0-5 5-5-14 8-0-5 3-11-5 0-1-12 1-10-8 6-5-11 5-8-13

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

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	0.85	Vert(LL)	-0.08	12-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.14	18-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.03	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 207 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
13-15: 2x6 SPF No.2
WEBS 2x4 SPF No.3
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-1-13

BRACING-
TOP CHORD Sheathed or 4-3-0 oc purlins, except
2-0-0 oc purlins (10-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-17, 5-17, 7-16, 8-16

REACTIONS. (size) 11=Mechanical, 2=0-3-8, 16=0-3-8
Max Horz 2=183(LC 8)
Max Uplift 11=-155(LC 9), 2=-181(LC 8), 16=-77(LC 9)
Max Grav 11=459(LC 22), 2=987(LC 1), 16=2369(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1531/278, 3-5=-993/251, 5-6=-405/232, 6-7=-330/237, 7-8=0/600, 8-9=-639/424, 9-11=-588/270
BOT CHORD 2-20=-344/1287, 18-20=-344/1287, 17-18=-205/819, 15-16=-412/0, 12-13=-423/21, 11-12=-162/466
WEBS 5-17=-816/225, 5-18=-7/508, 7-16=-1224/130, 14-16=-955/172, 8-14=-872/170, 8-12=-249/967, 9-12=-510/262, 3-18=-543/162, 7-17=0/856

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) 16 except (jt=lb) 11=155, 2=181.
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.

November 30,2023

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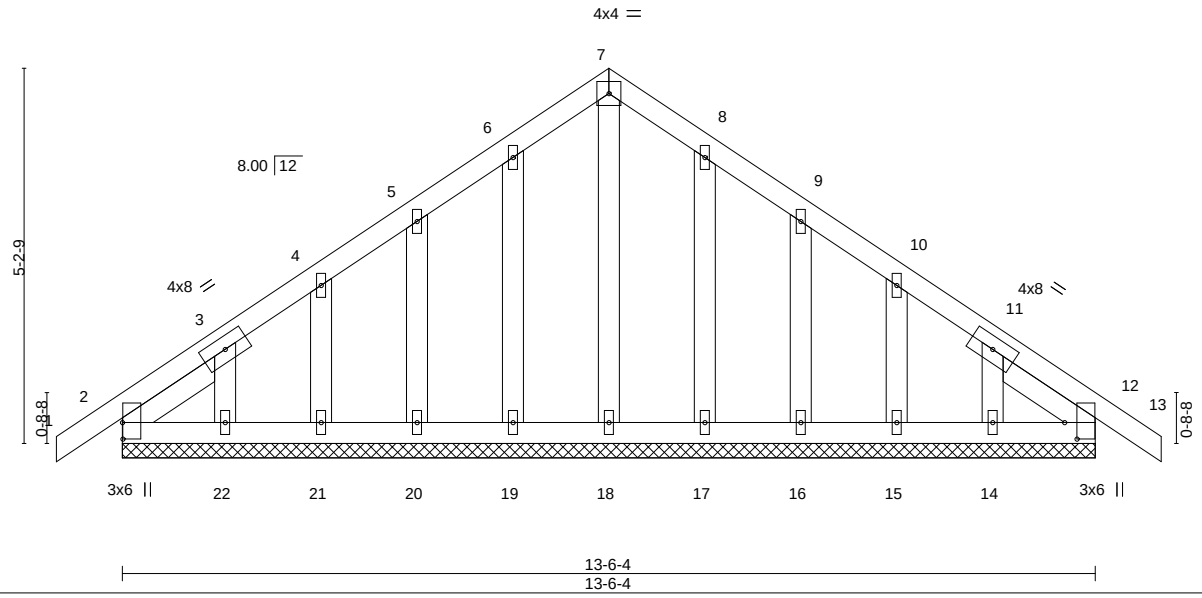
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	B1	Common Supported Gable	2	1	Job Reference (optional)	I62280247

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:10 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0 6-9-2 13-6-4 14-5-4
0-11-0 6-9-2 6-9-2 0-11-0

Scale: 3/8"=1'



13-6-4
13-6-4

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

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	0.07	Vert(LL)	-0.00	12	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	13	n/r	90		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 80 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SPF No.3
SLIDER Left 2x4 SP No.2 1-6-15, Right 2x4 SP No.2 1-6-14

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 13-6-4.
(lb) - Max Horz 2=129(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

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 1-4-0 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, 12, 19, 20, 21, 22, 17, 16, 15, 14.
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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	B2	GABLE	1	1		I62280248
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:11 2023 Page 1
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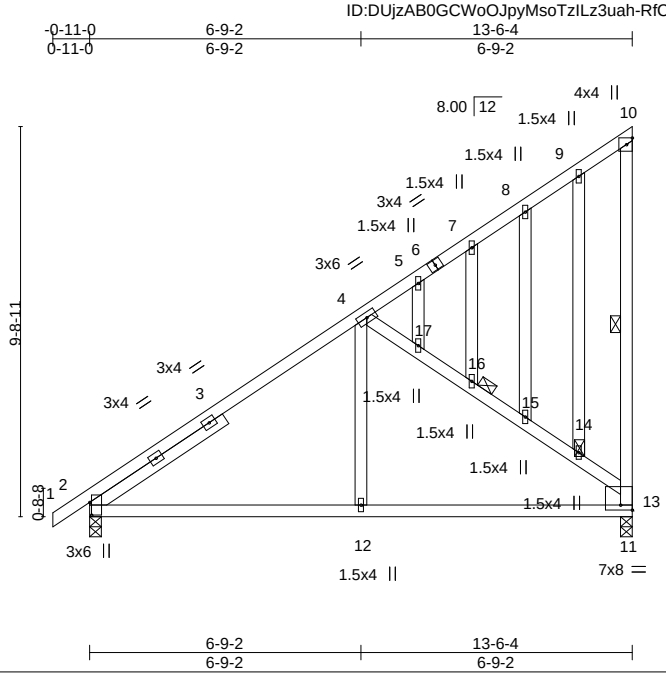

Plate Offsets (X,Y)-- [2:0-3-13,0-0-9], [11:Edge,0-1-8]

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	0.76	Vert(LL)	0.06	2-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.10	2-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 97 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SPF No.3
OTHERS	2x4 SPF No.3
SLIDER	Left 2x4 SP No.2 4-0-2

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 10-11
JOINTS	1 Brace at Jt(s): 14, 16

REACTIONS. (size) 11=0-3-8, 2=0-3-8
Max Horz 2=361(LC 5)
Max Uplift 11=-167(LC 8), 2=-58(LC 8)
Max Grav 11=645(LC 15), 2=668(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-696/39, 11-13=-560/210
BOT CHORD 2-12=-130/537, 11-12=-130/537
WEBS 4-12=0/283, 4-17=-591/236, 16-17=-587/224, 15-16=-622/247, 14-15=-625/255, 13-14=-657/249

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 1-4-0 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) 11=167.
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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280249
P230812	B9	Monopitch Girder	1	2	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:14 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

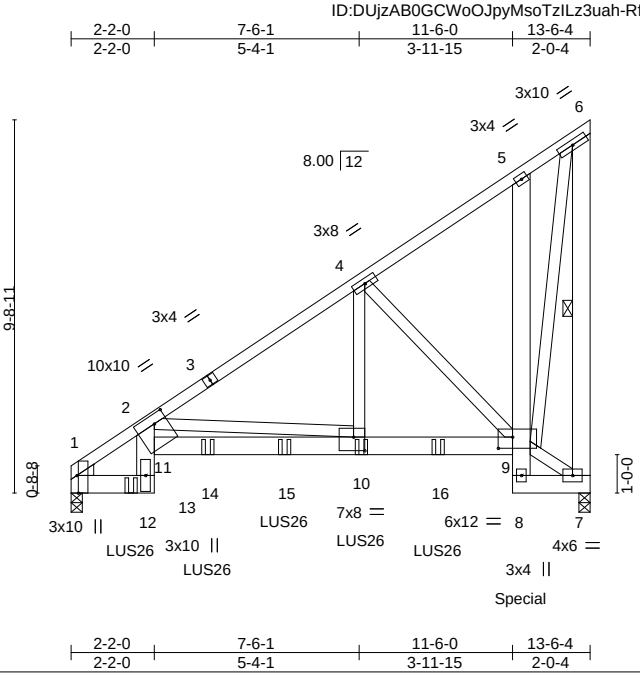

Plate Offsets (X,Y)-- [1:0-5-8,Edge], [2:0-4-0,0-2-12], [9:0-4-8,0-3-8], [10:0-3-8,0-4-4]

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	0.30	Vert(LL)	-0.11	10-11	>999	240	MT20	118/123
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.18	10-11	>900	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.12	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 220 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SPF No.2 *Except*
2-12: 1 1/2" x 5 1/2" 2.0E Microllam® LVL
WEBS 2x4 SPF No.3 *Except*
6-7: 2x6 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, Except:
6-0-0 oc bracing: 8-9.
WEBS 1 Row at midpt 6-7

REACTIONS. (size) 7=0-3-8, 1=0-3-8
Max Horz 1=352(LC 22)
Max Uplift 7=-631(LC 8), 1=-460(LC 8)
Max Grav 7=2822(LC 1), 1=2011(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2942/704, 2-4=-2382/586, 4-5=-815/195, 5-6=-574/189, 6-7=-2430/549
BOT CHORD 1-12=-658/2095, 11-12=-123/541, 2-11=-204/853, 10-11=-1736/5308, 9-10=-582/1891, 7-8=-121/490
WEBS 2-10=-3436/1225, 4-10=-564/1820, 4-9=-1870/677, 7-9=-593/246, 6-9=-598/2628

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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=631, 1=460.
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) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-6-12 from the left end to 9-6-12 to connect truss(es) to front face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1703 lb down and 187 lb up at 11-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

November 30,2023

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LOAD CASE(S) Standard

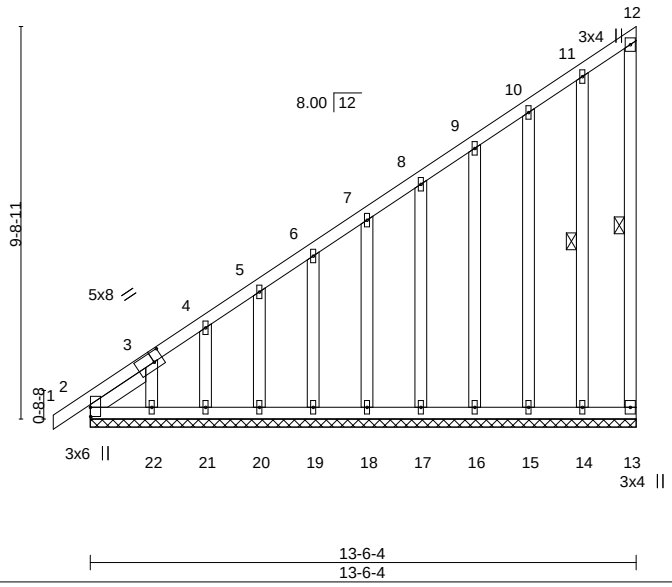
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-6=-70, 1-12=-20, 9-11=-20, 7-8=-20
   Concentrated Loads (lb)
   Vert: 10=-389(F) 9=-1606(F) 13=-446(F) 14=-439(F) 15=-382(F) 16=-389(F)

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	B4	Monopitch Supported Gable	1	1	Job Reference (optional)	I62280250

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:15 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0 13-6-4
0-11-0 13-6-4

Scale = 1:57.1



13-6-4
13-6-4

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

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	0.63	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	0.12	Horz(CT)	-0.00	13	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014	Matrix-SH							Weight: 108 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3
OTHERS 2x4 SPF No.3
SLIDER Left 2x4 SP No.2 1-8-4

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 12-13, 11-14

REACTIONS. All bearings 13-6-4.
(lb) - Max Horz 2=361(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 13, 2, 14, 15, 16, 17, 18, 19, 20, 21, 22
Max Grav All reactions 250 lb or less at joint(s) 13, 2, 14, 15, 16, 17, 18, 19, 20, 21, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-347/216, 3-4=-316/204, 4-5=-270/171

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) 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 1-4-0 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) 13, 2, 14, 15, 16, 17, 18, 19, 20, 21, 22.
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.

November 30,2023

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

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	B6	Monopitch Girder	1	2	Job Reference (optional)	I62280251

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:16 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

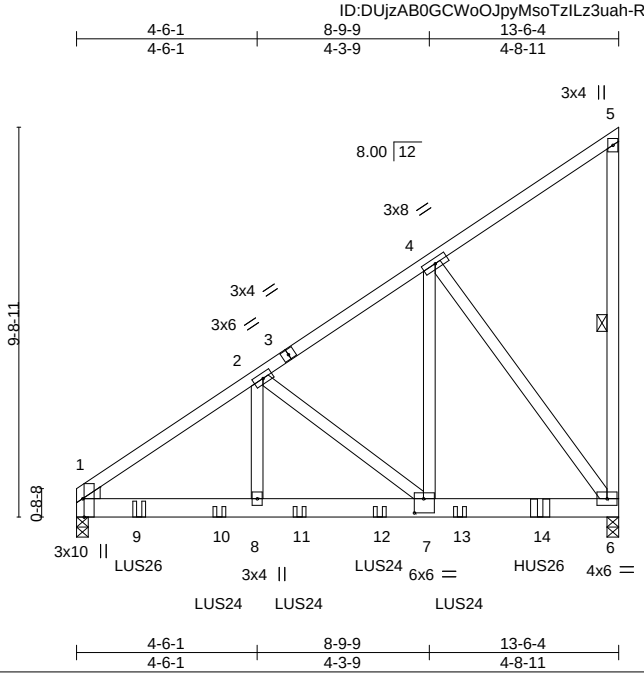


Plate Offsets (X,Y)-- [1:0-5-8,Edge], [7:0-2-12,0-4-4]

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	0.40	Vert(LL)	-0.05	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.09	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 167 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.3
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 5-6

REACTIONS. (size) 6=0-3-8, 1=0-3-8
Max Horz 1=354(LC 5)
Max Uplift 6=-613(LC 8), 1=-450(LC 8)
Max Grav 6=2770(LC 1), 1=2028(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2566/603, 2-4=-1632/364
BOT CHORD 1-8=-599/1994, 7-8=-599/1994, 6-7=-366/1293
WEBS 2-8=-277/880, 2-7=-885/375, 4-7=-565/2237, 4-6=-2147/637

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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=613, 1=450.
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) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 1-6-12 from the left end to connect truss(es) to back face of bottom chord.
9) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 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.
10) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 11-6-12 from the left end 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

November 30,2023

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
P230812	B6	Monopitch Girder	1	2	I62280251

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:17 2023 Page 2
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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-5=-70, 1-6=-20
   Concentrated Loads (lb)
   Vert: 9=-446(B) 10=-437(B) 11=-369(B) 12=-374(B) 13=-374(B) 14=-1606(B)

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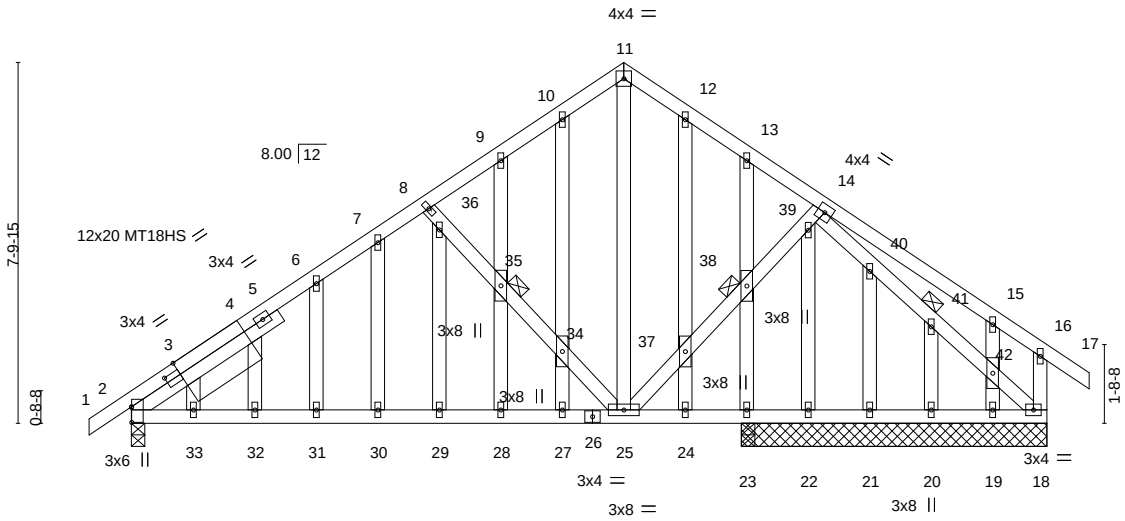
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	C1	GABLE	2	1		I62280252
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:18 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-11-0	6-5-6	10-8-2	14-10-15	19-10-4	20-9-4
0-11-0	6-5-6	4-2-12	4-2-13	4-11-5	0-11-0

Scale = 1:50.0



10-8-2	13-2-12	19-10-4
10-8-2	2-6-10	6-7-8

Plate Offsets (X,Y)-- [2:0-4-0,0-0-1], [2:0-11-5,0-1-8], [4:1-3-5,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	0.43	Vert(LL)	0.06	31-32	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.08	31-32	>999	180	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 159 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SPF No.3 *Except* 16-18: 2x4 SP No.2
OTHERS	2x4 SPF No.3
SLIDER	Left 2x4 SP No.2 3-10-1

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.
JOINTS	1 Brace at Jt(s): 35, 38, 41

REACTIONS. All bearings 6-7-8 except (jt=length) 2=0-3-8, 23=0-3-8, 23=0-3-8.
(lb) - Max Horz 2=218(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 18, 22, 20, 23 except 2=-106(LC 8), 19=-132(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 18, 21, 20, 23, 23 except 2=767(LC 1), 22=326(LC 1), 19=278(LC 16)

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

TOP CHORD	2-3=-896/49, 3-4=-809/62, 4-6=-730/85, 6-7=-749/139, 7-8=-658/140, 8-9=-480/105, 9-10=-405/128, 10-11=-384/159, 11-12=-389/171, 12-13=-434/156, 13-14=-411/131
BOT CHORD	2-33=-103/674, 32-33=-102/674, 31-32=-102/674, 30-31=-102/674, 29-30=-102/674, 28-29=-102/674, 27-28=-102/674, 25-27=-102/674
WEBS	8-36=-370/159, 35-36=-493/190, 34-35=-440/173, 25-34=-475/184, 11-25=-134/260, 25-37=-29/257, 38-39=-26/301, 14-40=-334/18, 41-42=-260/12, 18-42=-263/13, 22-39=-341/45

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 1-4-0 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) 18, 22, 20, 23 except (jt=lb) 2=106, 19=132.
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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	C2	ROOF SPECIAL GIRDER	2	1	Job Reference (optional)	I62280253

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:20 2023 Page 1
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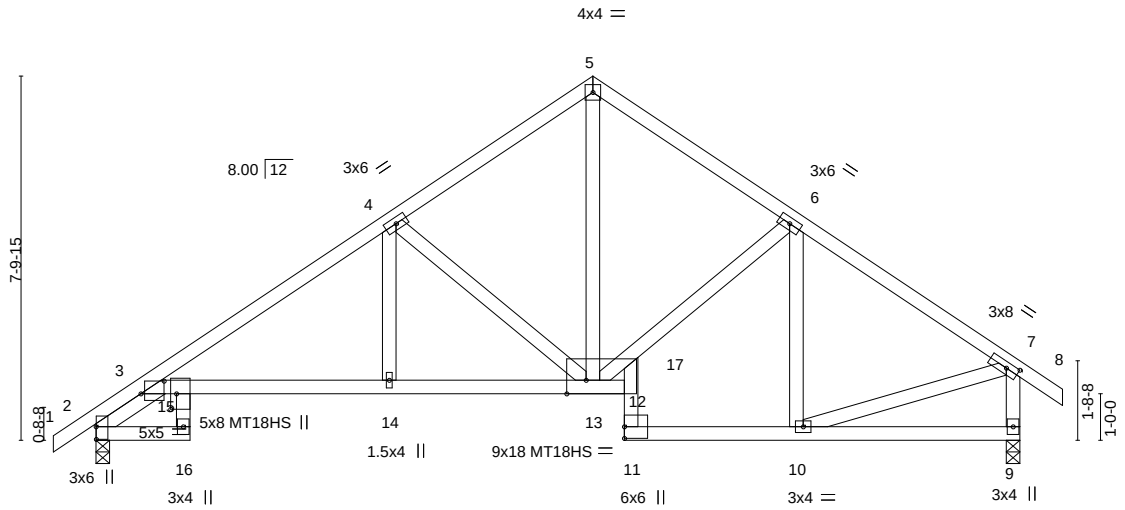
	2-0-4	6-5-6	10-8-2	14-10-14	19-10-4	20-9-4
0-11-0	2-0-4	4-5-2	4-2-12	4-2-12	4-11-6	0-11-0

Scale = 1:49.5



	2-0-4	6-5-6	10-8-2	11-4-4	14-10-14	19-10-4
	2-0-4	4-5-2	4-2-12	0-8-2	3-6-10	4-11-6

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

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)	-0.16	14-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.30	14-15	>788	180	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.25	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 111 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 3-12: 2x4 SP 2400F 2.0E, 11-17: 2x4 SP 1650F 1.5E
WEBS	2x4 SPF No.3 *Except* 7-9: 2x4 SP No.2
SLIDER	Left 2x4 SP No.2 1-7-9

BRACING-

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

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=218(LC 7)
Max Uplift 2=-113(LC 8), 9=-103(LC 9)
Max Grav 2=951(LC 1), 9=962(LC 1)

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

TOP CHORD	2-3=-981/101, 3-4=-1476/181, 4-5=-870/148, 5-6=-855/168, 6-7=-916/113, 7-9=-889/126
BOT CHORD	2-16=-114/434, 3-15=-39/781, 14-15=-153/1214, 13-14=-153/1214, 12-13=-20/1100, 10-11=-13/686
WEBS	4-13=-742/219, 5-13=-94/591, 13-17=-522/150, 4-14=0/393, 7-10=-14/631

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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=113, 9=103.
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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	C3	ROOF SPECIAL GIRDER	2	2	Job Reference (optional)	I62280254

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:22 2023 Page 1
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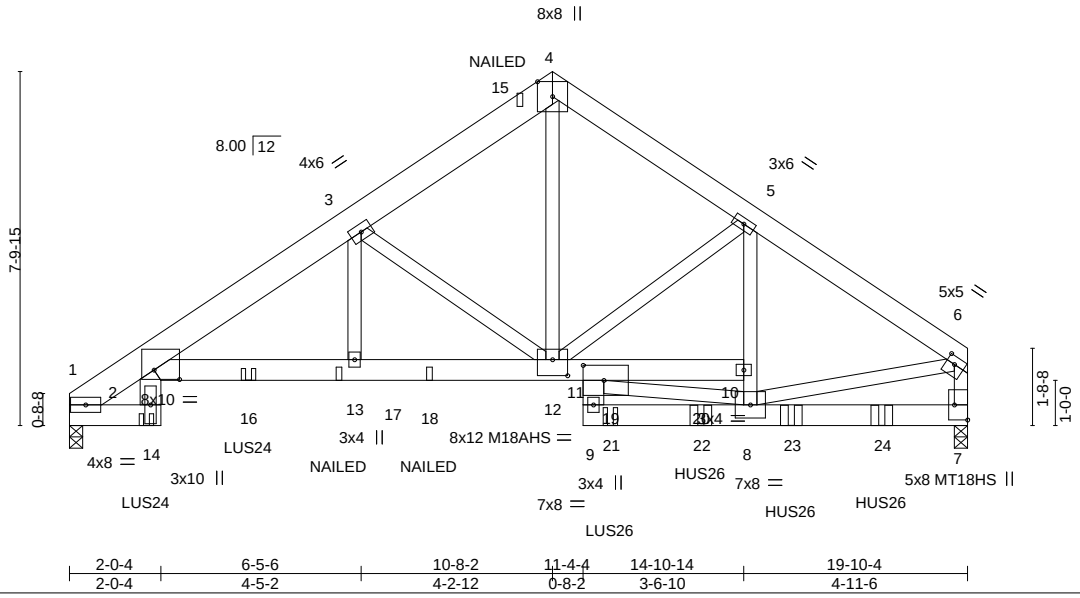
2-0-4	6-5-6	10-8-2	14-10-14	19-10-4
2-0-4	4-5-2	4-2-12	4-2-12	4-11-6

Scale = 1:50.9



2-0-4	6-5-6	10-8-2	11-4-4	14-10-14	19-10-4
2-0-4	4-5-2	4-2-12	0-8-2	3-6-10	4-11-6

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

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	0.64	Vert(LL)	-0.13	2-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.20	2-13	>999	180	M18AHS	142/136
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.15	7	n/a	n/a	MT18HS	244/190
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 290 lb	FT = 20%

LUMBER-

TOP CHORD	2x8 SP 2400F 2.0E *Except*
	4-6: 2x6 SPF No.2
BOT CHORD	2x6 SPF No.2 *Except*
	7-9: 2x6 SP 2400F 2.0E
WEBS	2x4 SPF No.3 *Except*
	6-7: 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, Except: 6-0-0 oc bracing: 1-14,9-11.

REACTIONS. (size) 1=0-3-8, 7=0-3-8
Max Horz 1=201(LC 5)
Max Uplift 1=-531(LC 8), 7=-664(LC 9)
Max Grav 1=2823(LC 1), 7=5133(LC 1)

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

TOP CHORD	1-2=-2008/403, 2-3=-4783/956, 3-4=-3684/700, 4-5=-3554/708, 5-6=-5012/721, 6-7=-3922/582
BOT CHORD	2-14=-145/729, 2-13=-889/4296, 12-13=-891/4297, 11-12=-548/4083, 8-9=-210/1454, 7-8=-77/524
WEBS	3-12=-1701/543, 4-12=-616/3572, 5-12=-1548/199, 3-13=-165/651, 8-10=-141/639, 5-10=-174/1676, 6-8=-498/3682, 8-11=-343/2682

NOTES-

1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x8 - 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 0-4-0 oc.
Webs connected as follows: 2x4 - 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 100 lb uplift at joint(s) except (jt=lb) 1=531, 7=664.
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 LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-3-1 oc max. starting at 1-3-7 from the left end to 3-11-8 to connect truss(es) to back face of bottom chord.

Continued on page 2

STATE OF MISSOURI
NATHANIEL FOX
NUMBER PE-2022042259
PROFESSIONAL ENGINEER

November 30,2023

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

NOTES-

11) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 11-11-8 from the left end to connect truss(es) to back face of bottom chord.
12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 13-11-8 from the left end to connect truss(es) to back face of bottom chord.
13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 15-11-8 from the left end to 17-11-8 to connect truss(es) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) "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, 2-4=-70, 4-6=-70, 1-14=-20, 2-11=-20, 7-9=-20
   Concentrated Loads (lb)
   Vert: 14=-320(B) 15=-80(B) 16=-309(B) 17=-271(B) 18=-215(B) 19=-399(B) 20=-1531(B) 23=-1534(B) 24=-1534(B)

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	C01	Jack-Open	4	1		I62280255

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:23 2023 Page 1
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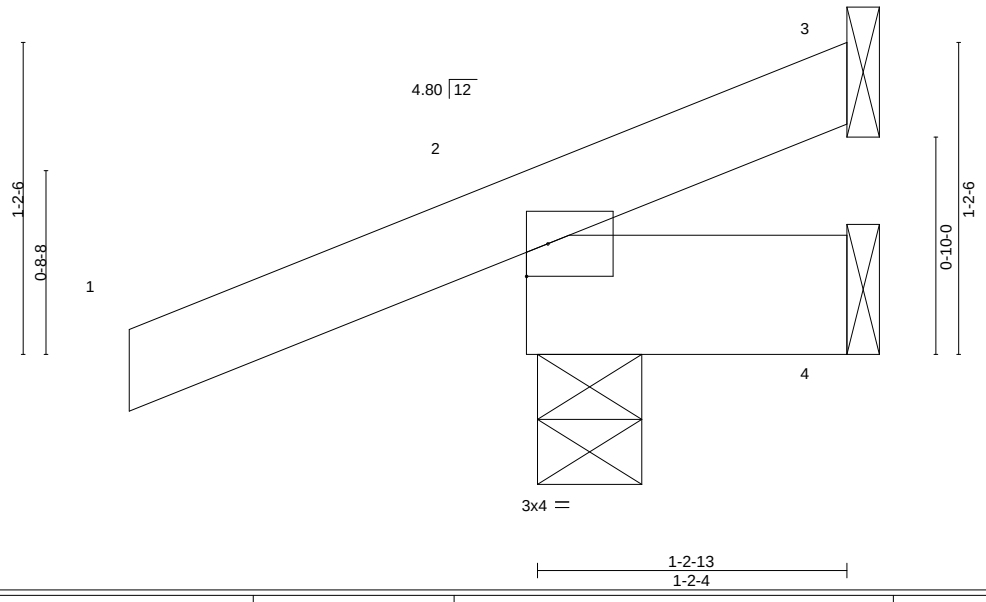

1-2-13
1-2-4

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	0.22	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 100 lb uplift at joint(s) 3, 2.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	C1A3	Jack-Open	2	1		I62280256
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:24 2023 Page 1
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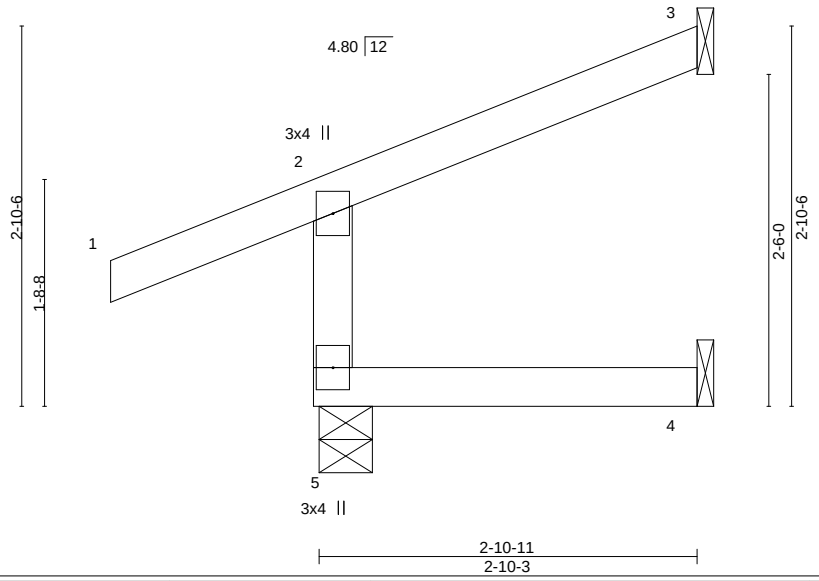

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 13 lb	FT = 20%

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

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 100 lb uplift at joint(s) 5, 3, 4.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280257
P230812	J01	MONOPITCH SUPPORTED	3	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:25 2023 Page 1
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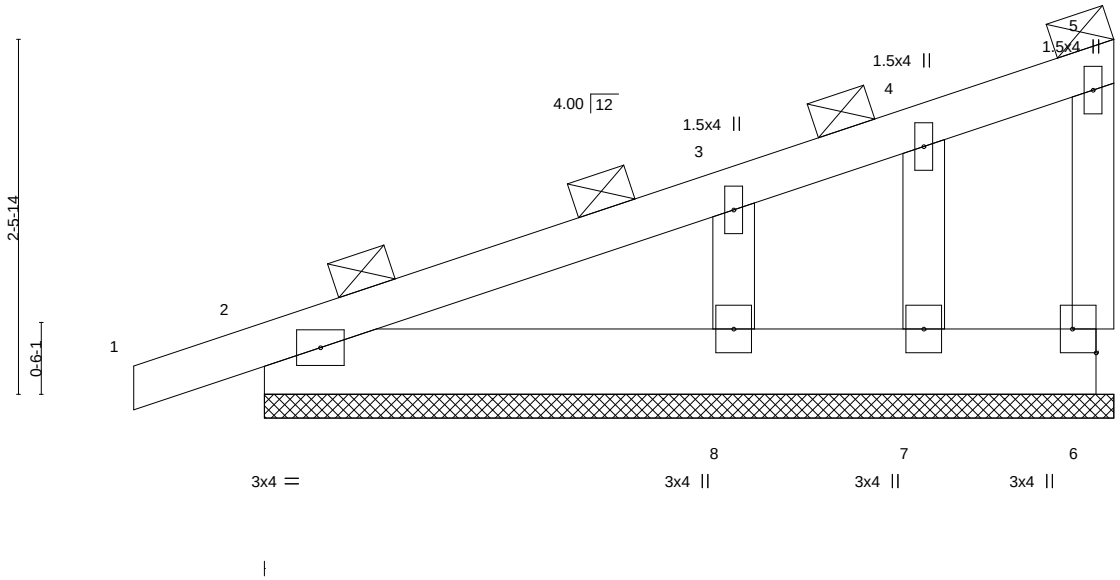

Plate Offsets (X,Y)-- [6:Edge,0-2-0]

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	0.39	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	1	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.12	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.3
OTHERS 2x4 SPF No.3

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 5-11-8.
(lb) - Max Horz 2=231(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 6, 7 except 2=-126(LC 4), 8=-157(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 6, 7 except 2=491(LC 1), 8=716(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-8=-543/261

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 1-4-0 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=126, 8=157.
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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P2309812	G4	MONOPITCH	9	1		I62280258
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:25 2023 Page 1
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0-11-0 5-10-0 0-1-8

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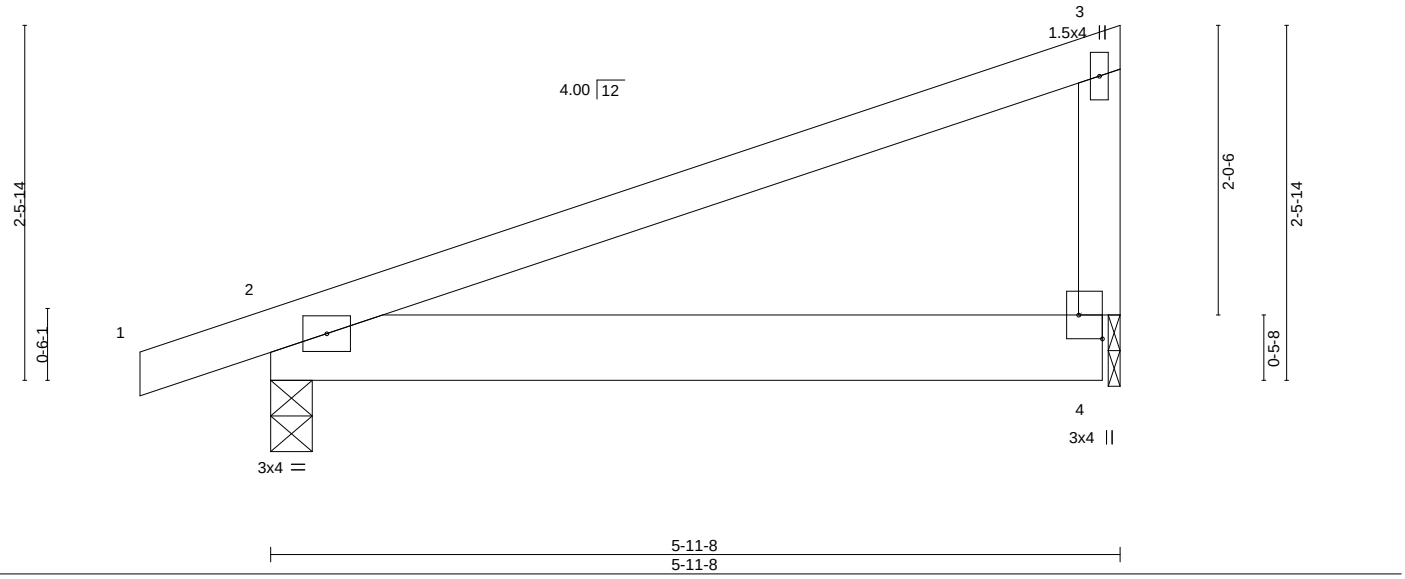

Plate Offsets (X,Y)-- [4:Edge,0-2-0]

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	0.80	Vert(LL)	-0.02	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	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: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.3

BRACING-
TOP CHORD Sheathed or 5-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=0-1-0
Max Horz 2=92(LC 5)
Max Uplift 2=-84(LC 4), 4=-49(LC 8)
Max Grav 2=336(LC 1), 4=248(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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	V1	MONOPITCH	18	1		I62280259
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:26 2023 Page 1
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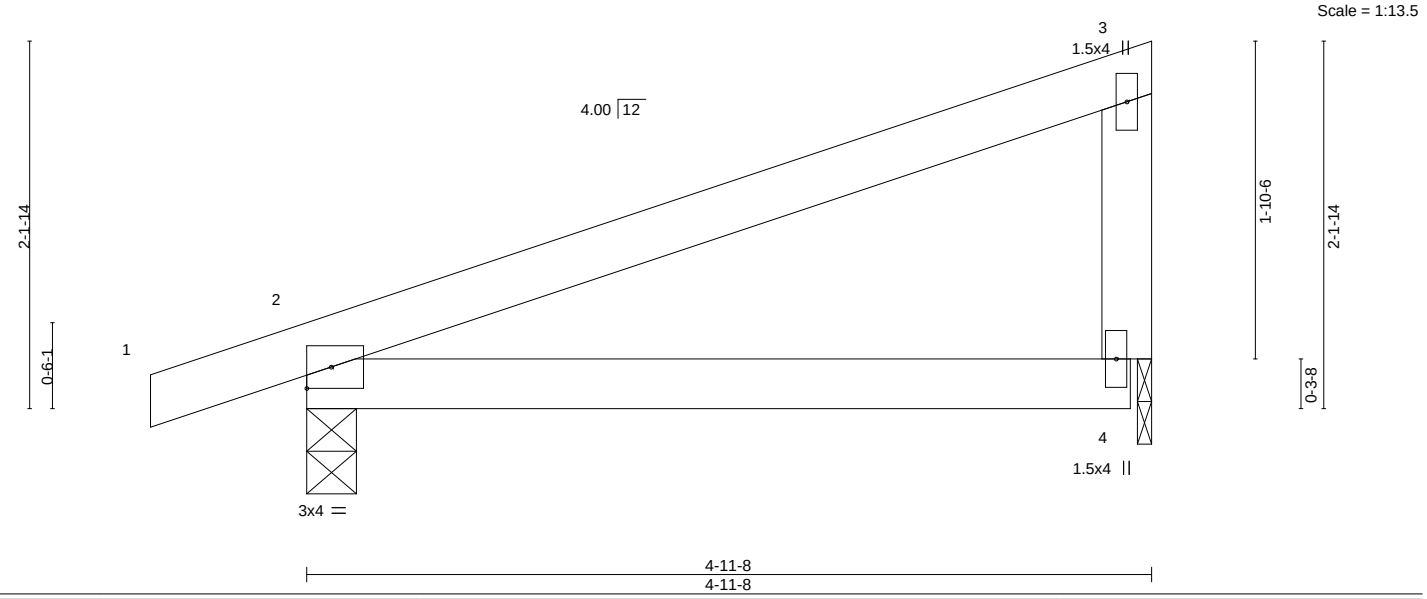

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.03	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.06	2-4	>984	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 4=0-1-0
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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280260
P230812	D4	MONOPITCH SUPPORTED	3	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:27 2023 Page 1
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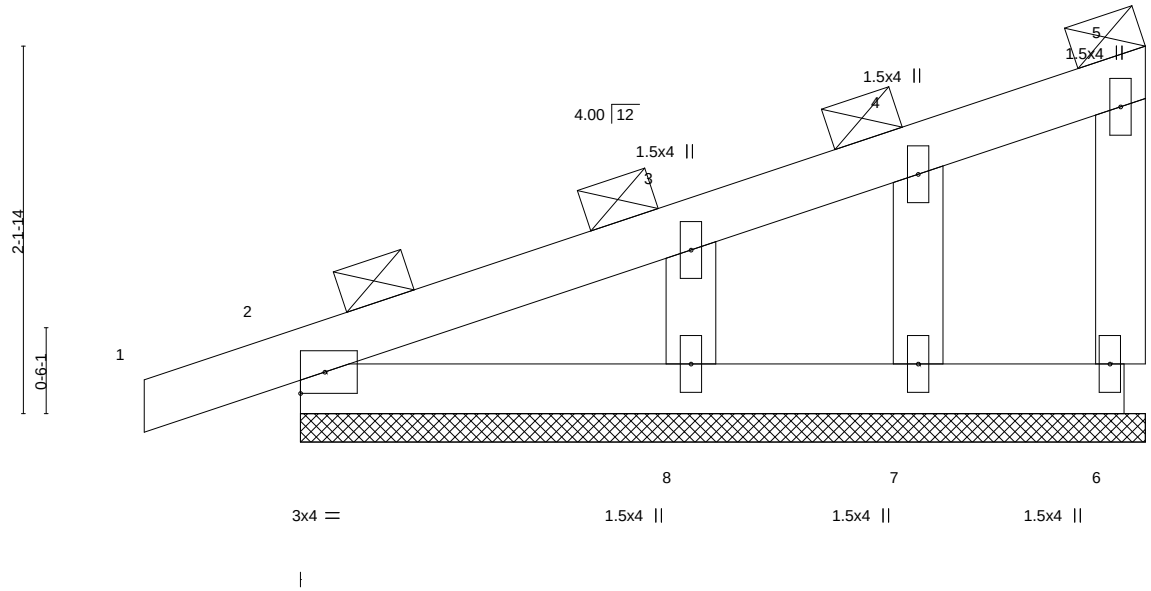

LOADING (psf)		SPACING-	5-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	1	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%

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

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=199(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 6, 7 except 2=-115(LC 4), 8=-109(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 6 except 2=414(LC 1), 7=256(LC 1), 8=458(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-8=-342/179

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 1-4-0 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=115, 8=109.
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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
R230812	T05	MONOPITCH STRUCTURAL	1	1	Job Reference (optional)	I62280261

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:28 2023 Page 1
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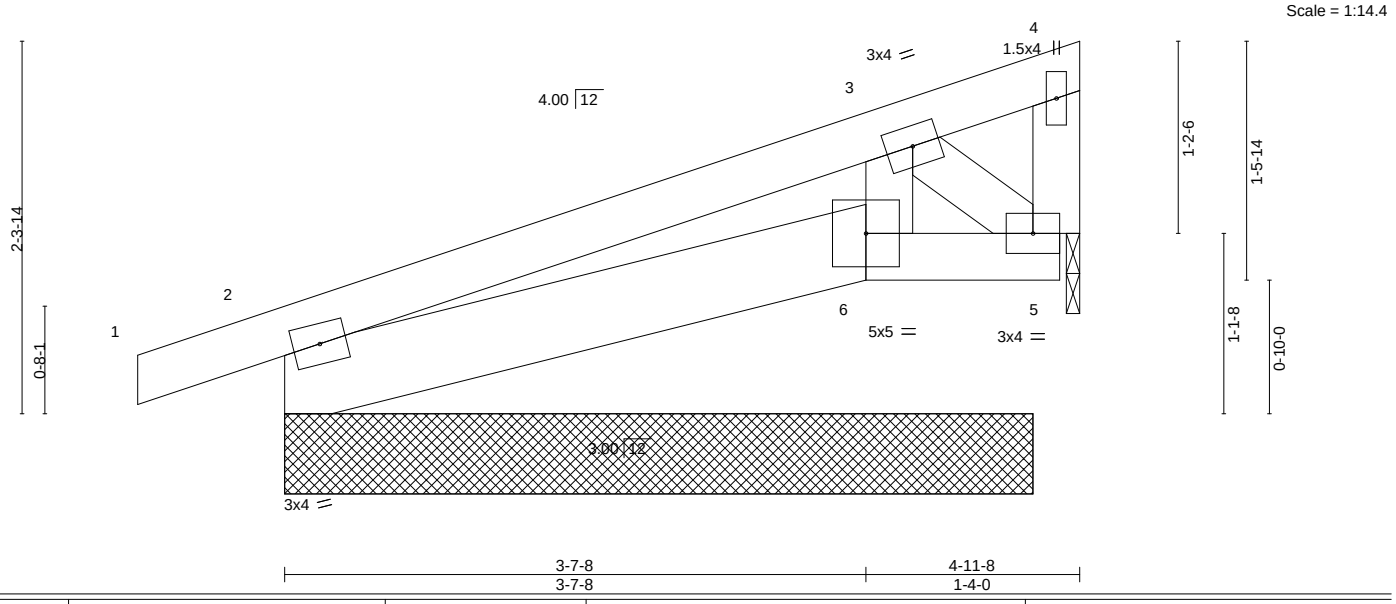


3-7-8 4-11-8
3-7-8 1-4-0

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	0.21	Vert(LL)	-0.00	2-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	2-6	>999	180		
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: 21 lb	FT = 20%

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

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

REACTIONS. All bearings 4-8-0.
(lb) - Max Horz 2=70(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 6
Max Grav All reactions 250 lb or less at joint(s) 5, 5, 2 except 6=274(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) 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 1-4-0 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, 2, 6.
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.

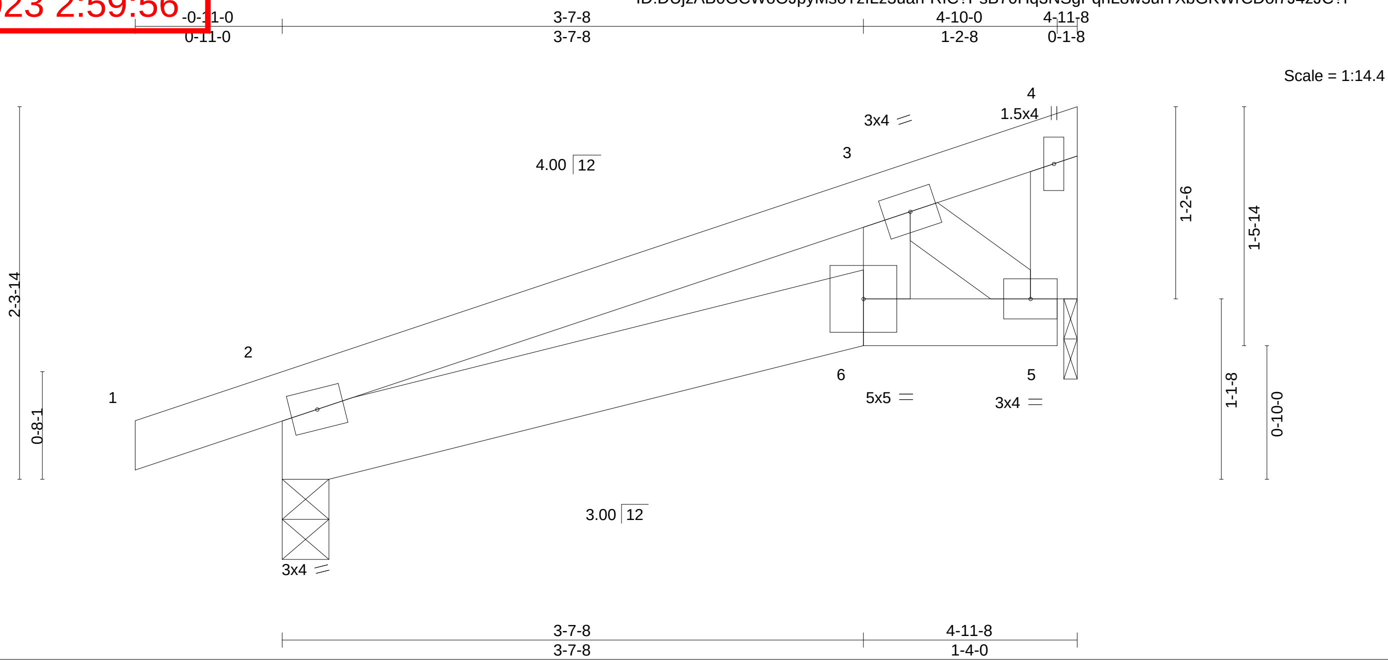
STATE OF MISSOURI
NATHANIEL FOX
NUMBER PE-2022042259
PROFESSIONAL ENGINEER

November 30,2023

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

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
B230812	D6	MONOPITCH	6	1	I62280262 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:29 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	0.27	Vert(LL)	-0.00	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.01	2-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	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 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-6: 2x6 SPF No.2
WEBS 2x4 SPF No.3

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

REACTIONS. (size) 2=0-3-8, 5=0-1-0
Max Horz 2=70(LC 5)
Max Uplift 2=-75(LC 4), 5=-42(LC 8)
Max Grav 2=293(LC 1), 5=202(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-391/75
BOT CHORD 2-6=-92/329, 5-6=-87/289
WEBS 3-5=-362/123

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(s) 2, 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.

November 30,2023

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	J07	MONOPITCH	3	1		I62280263
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:30 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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0-11-0 3-7-8 4-2-8 0-1-8

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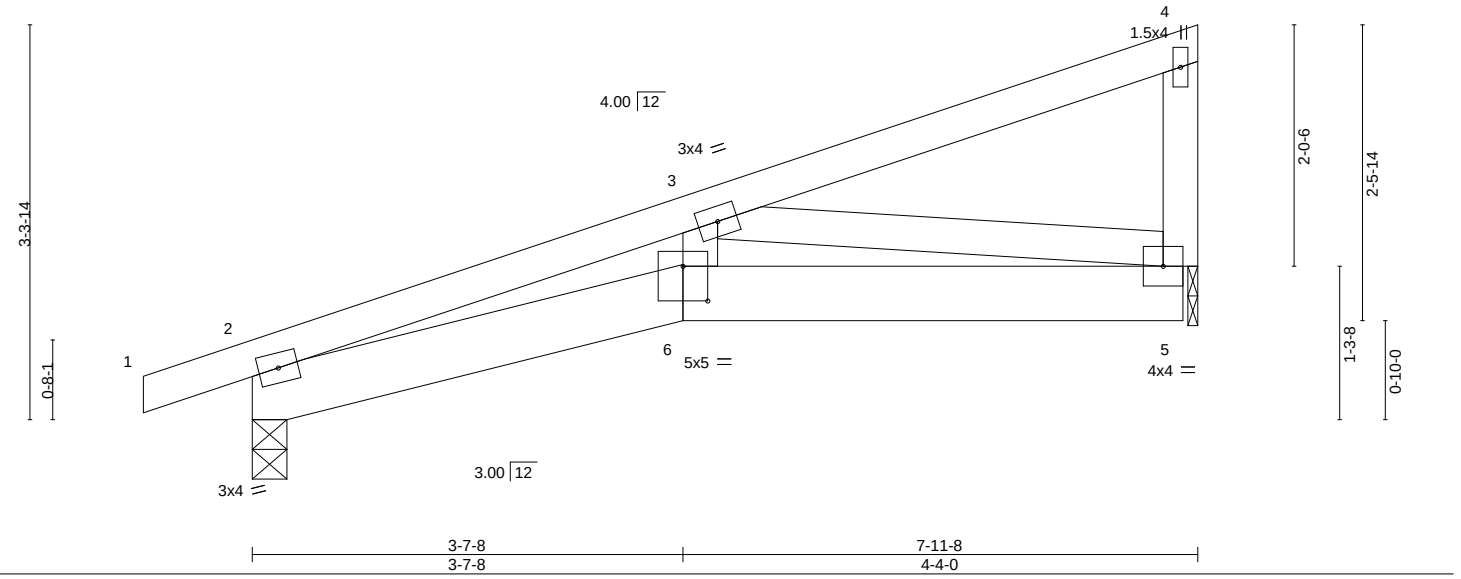

Plate Offsets (X,Y)-- [6:0-2-8,0-3-8]

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	0.48	Vert(LL)	-0.04	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.07	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.3

BRACING-
TOP CHORD Sheathed or 5-1-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=0-1-0
Max Horz 2=111(LC 5)
Max Uplift 2=-93(LC 4), 5=-69(LC 8)
Max Grav 2=425(LC 1), 5=340(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1198/238
BOT CHORD 2-6=-270/1094, 5-6=-255/985
WEBS 3-6=-19/347, 3-5=-1000/279

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(s) 2, 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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	08	MONOPITCH	1	1		I62280264
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:31 2023 Page 1
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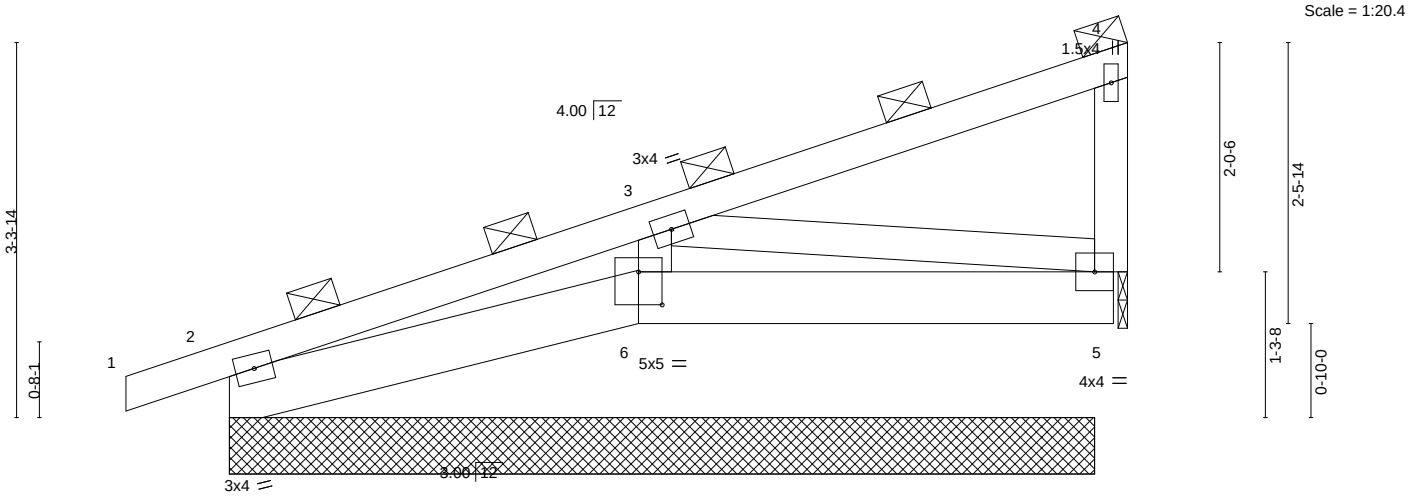
0-11-0 3-7-8 4-2-8 0-1-8

Scale = 1:20.4



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

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

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	0.80	Vert(LL)	-0.01	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.02	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.3

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 6-0-0 oc bracing.

REACTIONS. All bearings 7-8-0.
(lb) - Max Horz 2=279(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 5, 2 except 6=-241(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 5=402(LC 1), 5=402(LC 1), 2=509(LC 1), 6=1007(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-276/106
WEBS 3-6=-839/364

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2 except (jt=lb) 6=241.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

STATE OF MISSOURI
NATHANIEL FOX
NUMBER PE-2022042259
PROFESSIONAL ENGINEER

November 30,2023

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

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280265
P230812	HG1	GABLE	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:32 2023 Page 1
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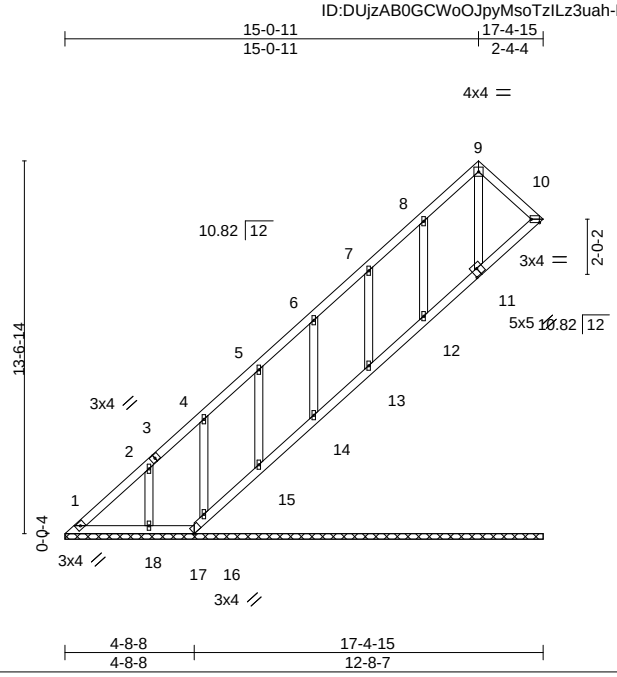

Plate Offsets (X,Y)-- [10:0-3-9,Edge], [11:0-2-8,0-3-0]

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 94 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 11-12.

REACTIONS. All bearings 17-4-15.
(lb) - Max Horz 1=478(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 17, 12, 13, 14, 15 except 10=-168(LC 8), 16=-116(LC 8), 18=-116(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 10, 17, 11, 12, 13, 14, 15, 16, 18 except 1=295(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-469/202, 2-4=-363/162, 4-5=-265/125

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 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, 17, 12, 13, 14, 15 except (jt=lb) 10=168, 16=116, 18=116.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11, 12, 13, 14, 15, 16.
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.

November 30,2023

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

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
R230812	HG2	GABLE	4	1		I62280266
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:33 2023 Page 1
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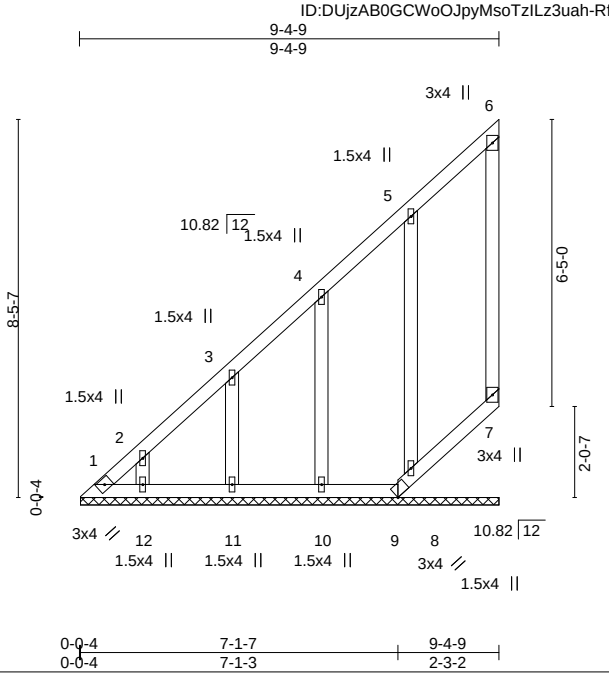

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.12	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 56 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 7-8.

REACTIONS. All bearings 9-4-5.
(lb) - Max Horz 1=275(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 9, 12, 11 except 1=-109(LC 6), 7=-139(LC 7), 10=-101(LC 8), 8=-132(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 12, 11, 10, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-330/193, 2-3=-259/170

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, 12, 11 except (jt=lb) 1=109, 7=139, 10=101, 8=132.
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.

November 30,2023

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

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	HG2	GABLE	2	1		I62280267
Premier Building Supply (Springhill, KS),	Spring Hills, KS - 66083,				Job Reference (optional)	

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:34 2023 Page 1
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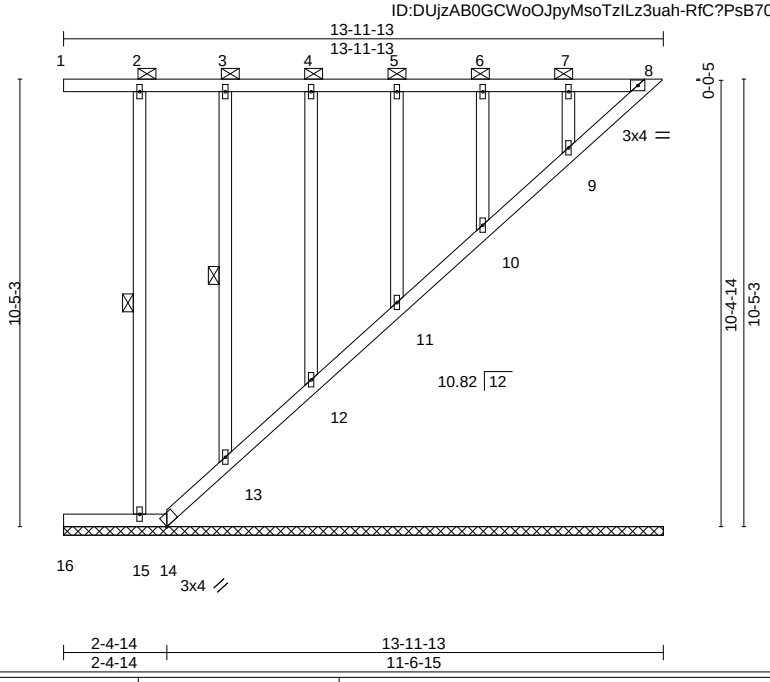


Scale = 1:53.7

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	0.06	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	0.14	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 87 lb	FT = 20%

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

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 2-15, 3-13

REACTIONS. All bearings 13-11-13.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 15, 13, 12, 11, 10, 9
Max Grav All reactions 250 lb or less at joint(s) 1, 8, 16, 14, 15, 13, 12, 11, 10, 9

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

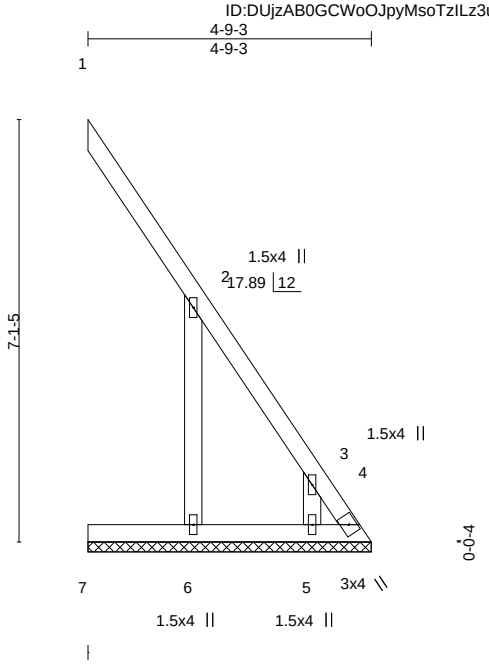
NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage 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) Bearing at joint(s) 1 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, 8, 15, 13, 12, 11, 10, 9.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 13, 12, 11, 10, 9.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 30,2023

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

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280268
P230812	HG1	GABLE	4	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:35 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	0.14	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	0.08	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 4-9-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-9-3.
(lb) - Max Horz 1=-264(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 4 except 1=-122(LC 7), 6=-218(LC 9), 5=-172(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 4, 7, 5 except 1=314(LC 9), 6=255(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-195/406

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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 1=122, 6=218, 5=172.
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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	J01	Jack-Open	8	1		I62280269
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,					Job Reference (optional)	

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:36 2023 Page 1
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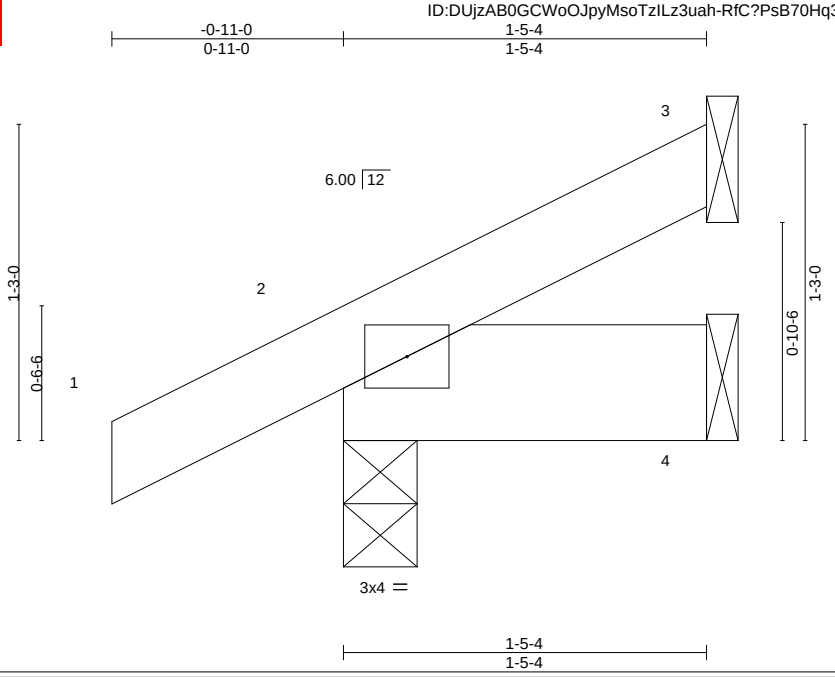

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	2	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	2	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	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 100 lb uplift at joint(s) 3, 2.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A02	Half Hip Girder	4	1		I62280270
Premier Building Supply (Springhill, KS),	Spring Hills, KS - 66083,				Job Reference (optional)	

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:37 2023 Page 1
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0-11-0 0-9-13 5-8-6
0-11-0 0-9-13 4-10-9

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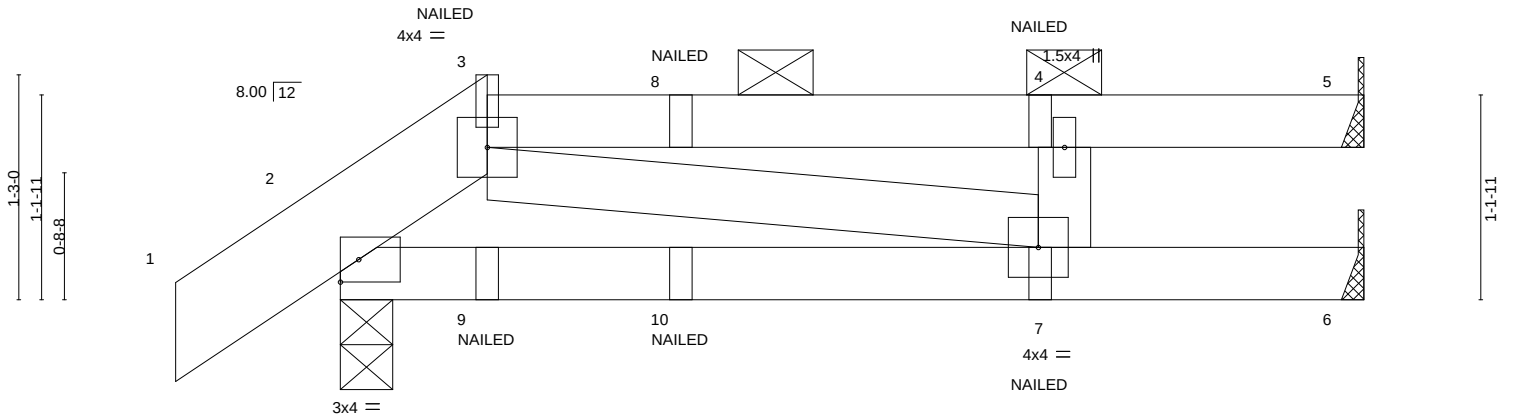

5-8-6
5-8-6

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	0.46	Vert(LL)	-0.05	2-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.10	2-7	>673	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: 24 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF No.2 *Except* 3-5: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3

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=135(LC 22), 2=302(LC 1), 6=104(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 100 lb uplift at joint(s) 5, 2, 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)

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280271
P230812	A12	Half Hip	4	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:38 2023 Page 1
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0-11-0 2-3-13 3-4-9

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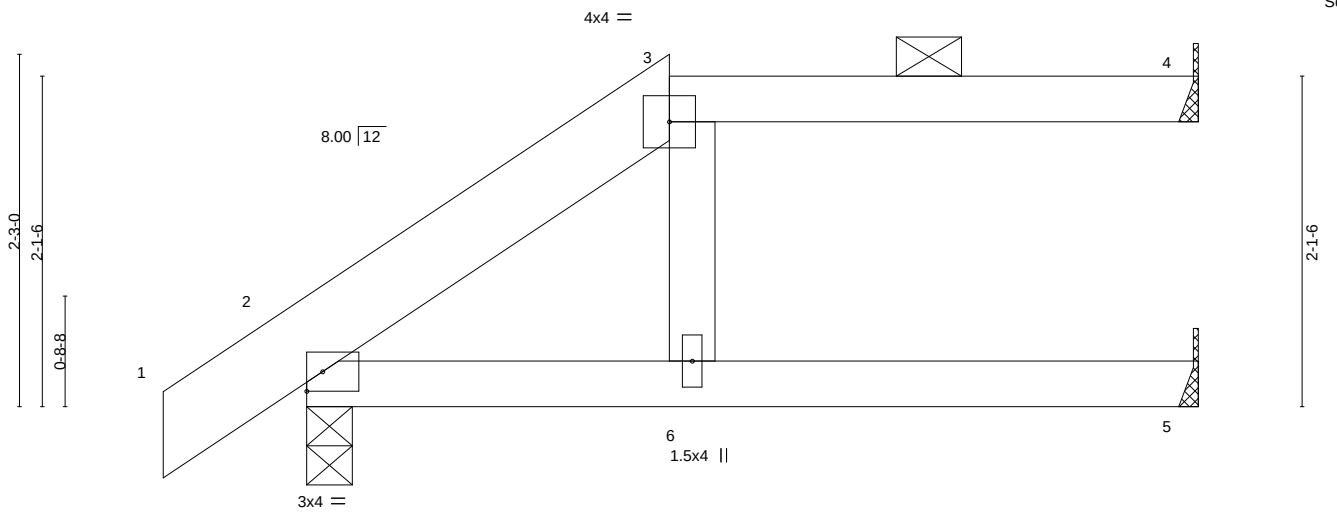

2-3-13 4-0-6 5-8-6
2-3-13 1-8-9 1-8-0

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	0.27	Vert(LL)	-0.09	5-6	>736	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.18	5-6	>367	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.14	4	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* 3-4: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3

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 100 lb uplift at joint(s) 4, 2.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	J44	Half Hip	4	1		I62280272
Premier Building Supply (Springhill, KS),	Spring Hills, KS - 66083,				Job Reference (optional)	

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:39 2023 Page 1
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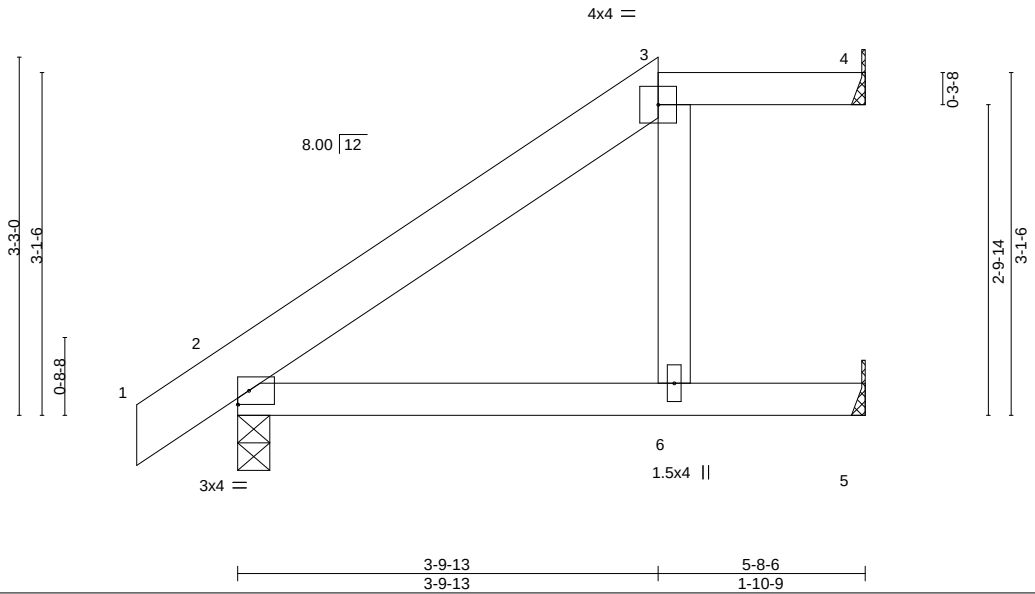

3-9-13 / 3-9-13 | 5-8-6 / 1-10-9

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.08	2-6	>822	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.17	2-6	>396	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.11	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

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

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 100 lb uplift at joint(s) 4, 2, 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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A15	Half Hip	4	1	Job Reference (optional)	I62280273

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:39 2023 Page 1
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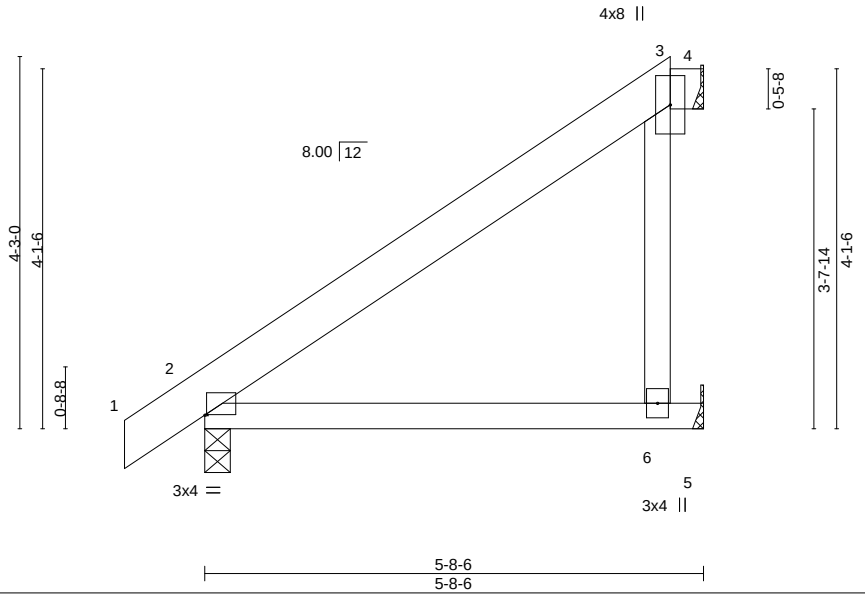

Plate Offsets (X,Y)-- [2:0-0-4,0-0-1]

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	0.41	Vert(LL)	-0.01	2-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	2-6	>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: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3

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 2=-42(LC 8), 5=-95(LC 5)
Max Grav 4=179(LC 3), 2=329(LC 1), 5=125(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 100 lb uplift at joint(s) 2, 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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	A10	Jack-Open	18	1	Job Reference (optional)	I62280274

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:40 2023 Page 1
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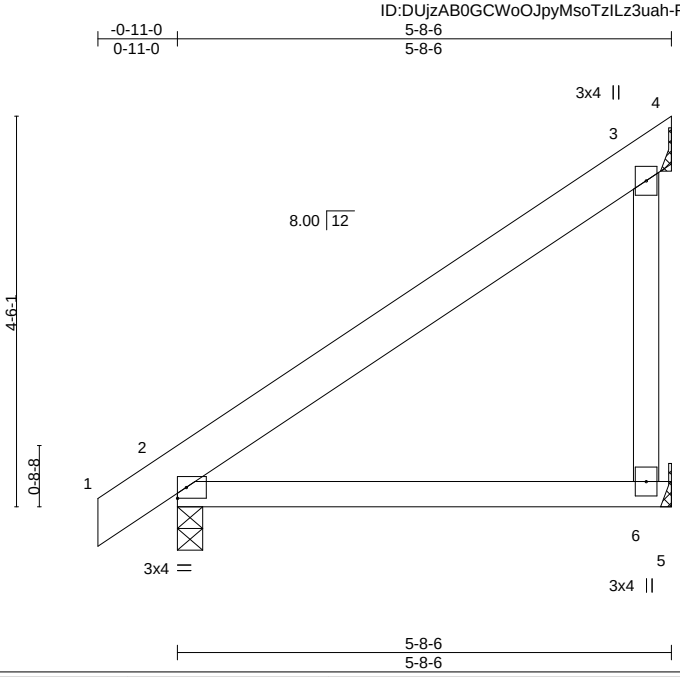

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.05	2-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.09	2-6	>692	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SPF No.3

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=170(LC 8)
Max Uplift 4=-354(LC 15), 6=-355(LC 8)
Max Grav 4=242(LC 8), 2=304(LC 1), 6=633(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-574/390

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 100 lb uplift at joint(s) except (jt=lb) 4=354, 6=355.
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.

November 30,2023

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

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage
P230812	J47	Jack-Open	2	1	I62280275

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:41 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-11-0 1-10-0
0-11-0 1-10-0

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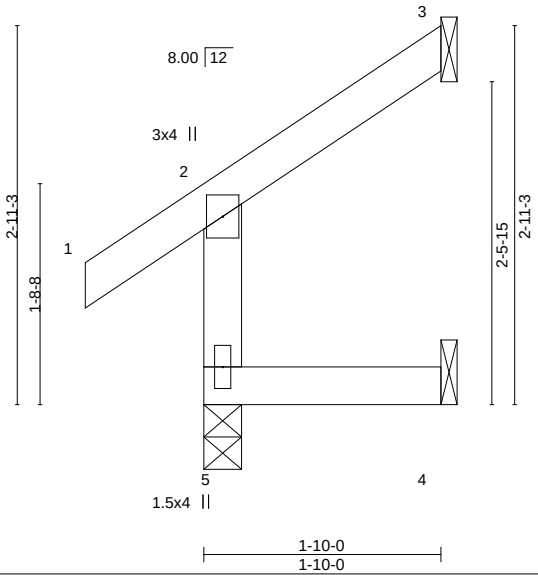

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 9 lb	FT = 20%

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

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=68(LC 5)
Max Uplift 3=-51(LC 8), 4=-16(LC 5)
Max Grav 5=173(LC 1), 3=53(LC 15), 4=37(LC 6)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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 100 lb uplift at joint(s) 3, 4.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280276
P230812	V1	GABLE	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:42 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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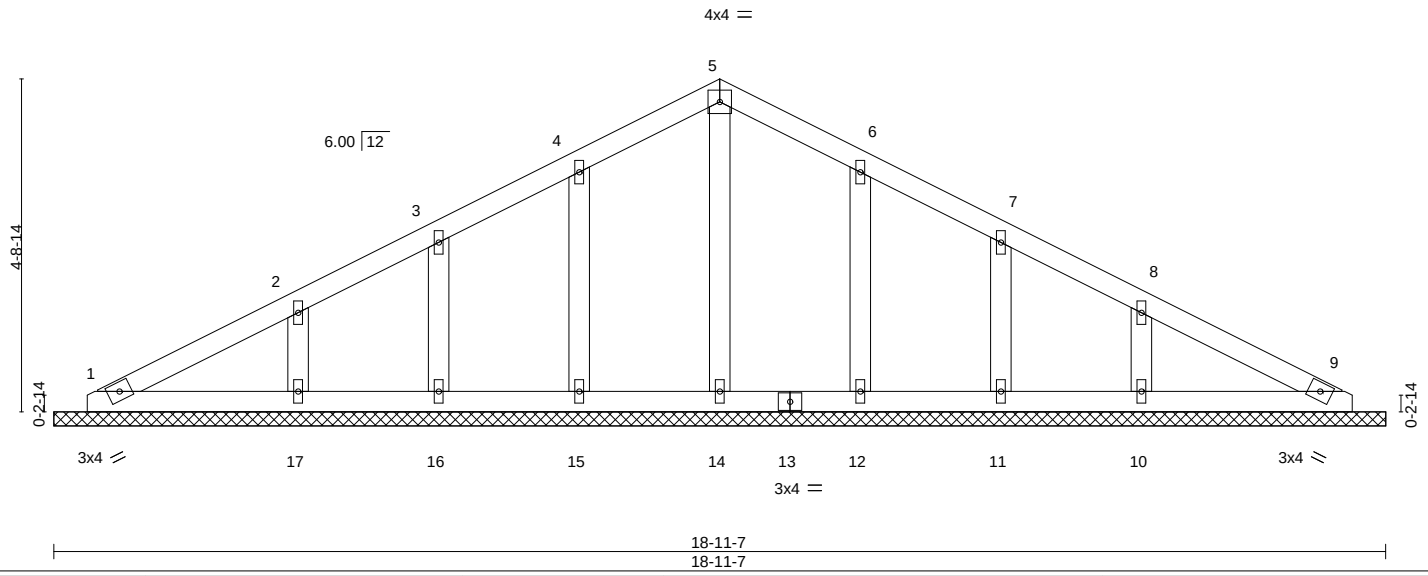

18-11-7
18-11-7

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 76 lb	FT = 20%

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

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

REACTIONS. All bearings 18-11-7.
(lb) - Max Horz 1=75(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=265(LC 21), 10=266(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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	V2	GABLE	2	1		I62280277
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:43 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-9-11 13-7-7
6-9-11 6-9-11

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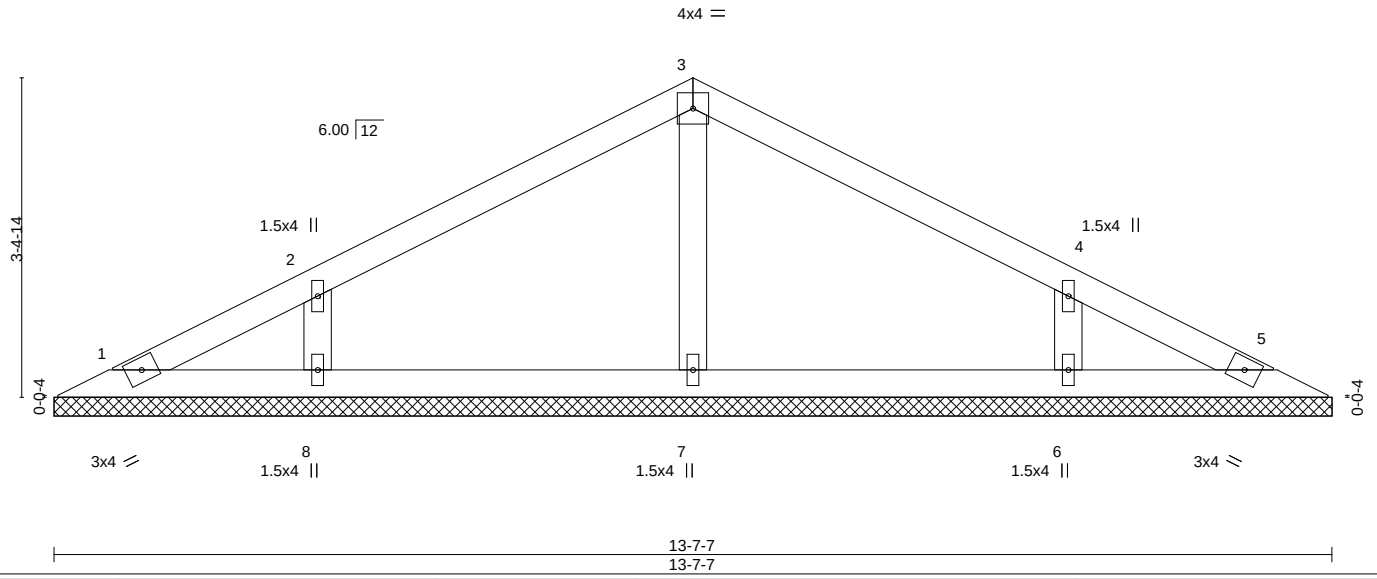

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 46 lb	FT = 20%

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

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

REACTIONS. All bearings 13-7-7.
(lb) - Max Horz 1=-53(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-103(LC 8), 6=-103(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=318(LC 1), 8=342(LC 21), 6=342(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-276/144, 4-6=-276/144

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=103, 6=103.
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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	V3	Valley	2	1		I62280278
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:44 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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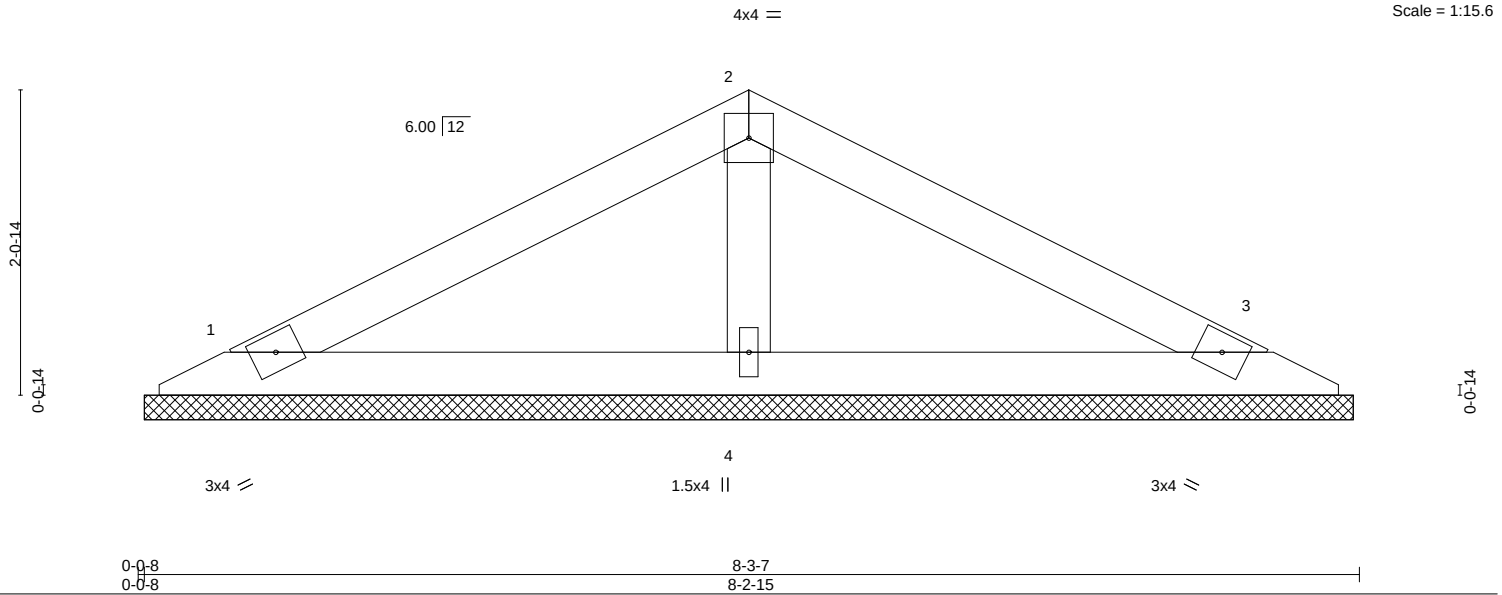

0-0-8 8-3-7
0-0-8 8-2-15

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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

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

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

REACTIONS. (size) 1=8-2-7, 3=8-2-7, 4=8-2-7
Max Horz 1=-30(LC 9)
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=307(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.

November 30,2023

MiTek®
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	V01	Valley	2	1		I62280279
Premier Building Supply (Springhill, KS),	Spring Hills, KS - 66083,				Job Reference (optional)	

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:45 2023 Page 1
ID:DUjzAB0GCWoOJpyMsoTzILz3uah-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

10-7-8
10-7-8

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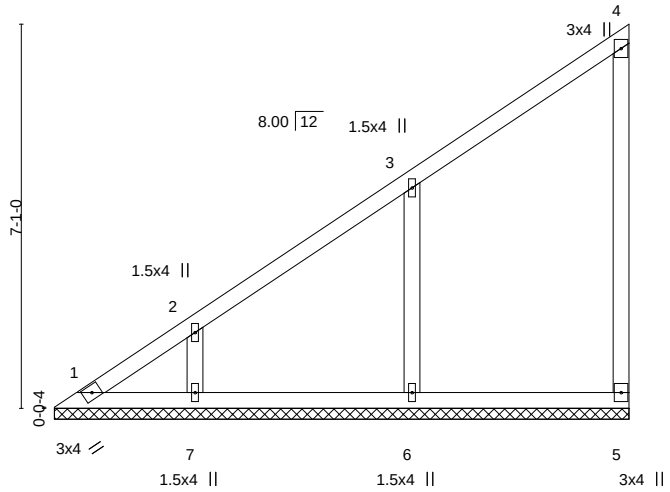

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.12	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 47 lb	FT = 20%

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

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

REACTIONS. All bearings 10-7-2.
(lb) - Max Horz 1=256(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-146(LC 8), 7=-111(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=513(LC 15), 7=357(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-328/186

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=146, 7=111.
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.

November 30,2023

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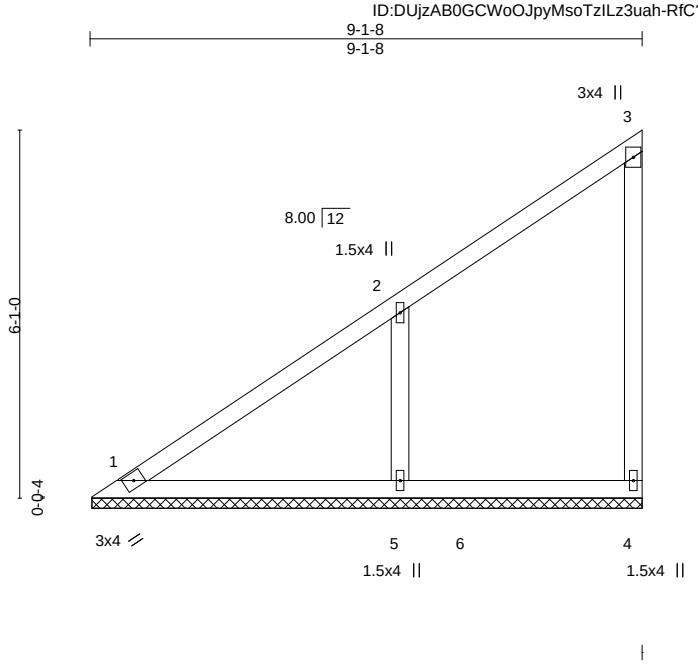
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	V02	Valley	2	1		I62280280
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:46 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	0.36	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	0.10	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 38 lb	FT = 20%

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

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

REACTIONS. (size) 1=9-1-2, 4=9-1-2, 5=9-1-2
Max Horz 1=218(LC 5)
Max Uplift 4=-42(LC 5), 5=-173(LC 8)
Max Grav 1=218(LC 16), 4=186(LC 15), 5=585(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-370/208

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=173.
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.

November 30,2023

MiTek®
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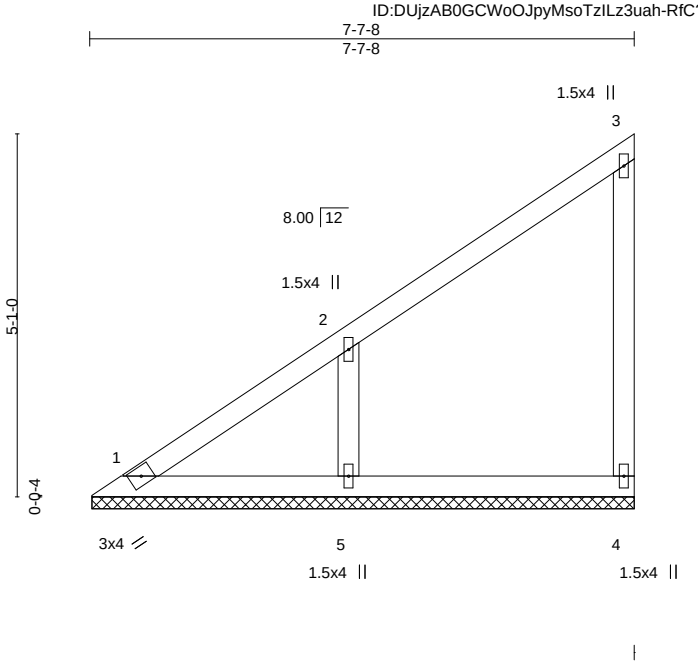
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	V02	Valley	2	1		I62280281
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:47 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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	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: 31 lb	FT = 20%

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

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

REACTIONS. (size) 1=7-7-2, 4=7-7-2, 5=7-7-2
Max Horz 1=179(LC 5)
Max Uplift 1=-11(LC 4), 4=-38(LC 5), 5=-144(LC 8)
Max Grav 1=128(LC 16), 4=152(LC 15), 5=409(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-321/197

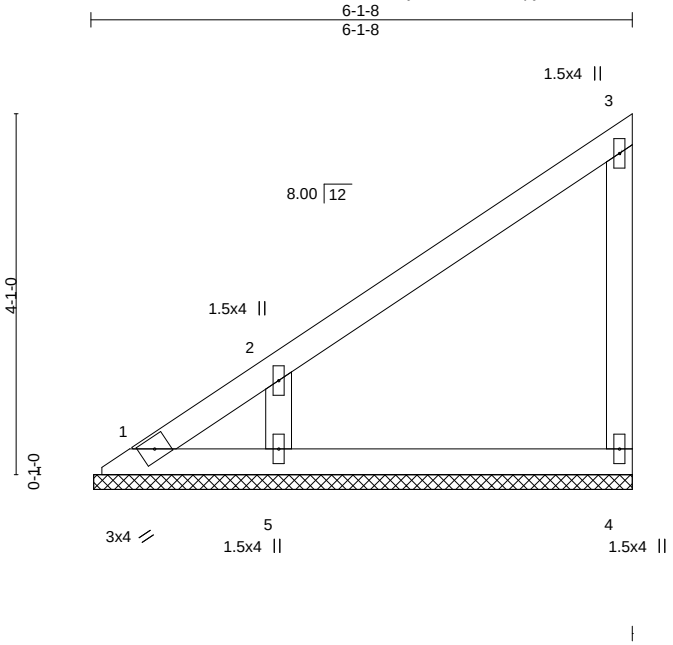
NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous 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=144.
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.

November 30,2023

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

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	V8	Valley	2	1		I62280282
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:48 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	0.26	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	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

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

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

REACTIONS. (size) 1=6-1-2, 4=6-1-2, 5=6-1-2
Max Horz 1=141(LC 5)
Max Uplift 1=-48(LC 6), 4=-33(LC 5), 5=-130(LC 8)
Max Grav 1=74(LC 5), 4=154(LC 15), 5=368(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-288/177

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=130.
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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	V8E	Valley	2	1		I62280283
					Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:48 2023 Page 1
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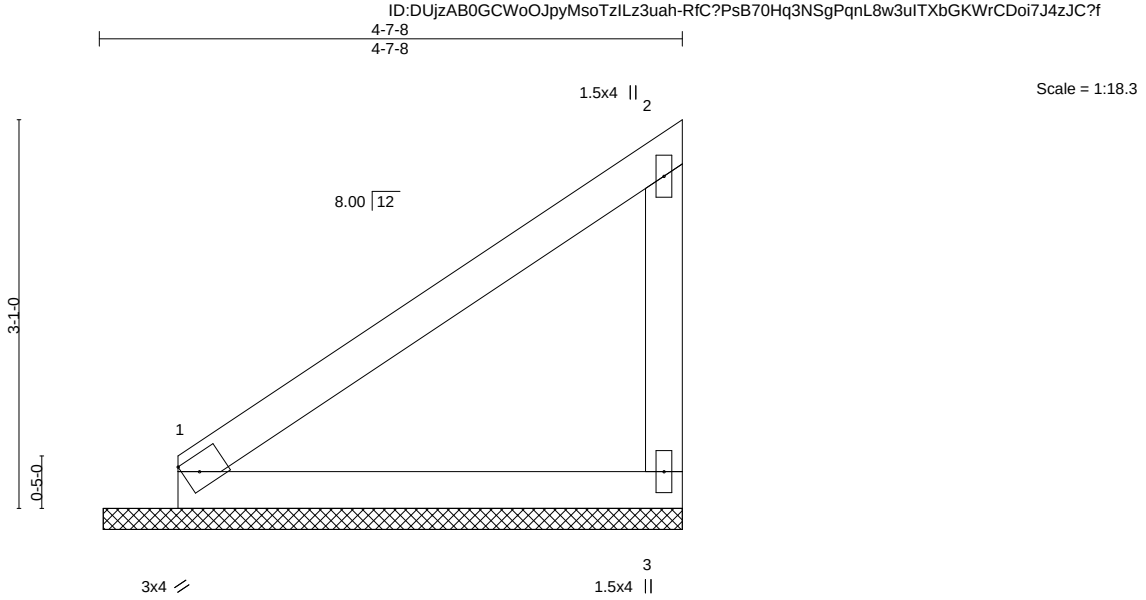

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 4-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-7-2, 3=4-7-2
Max Horz 1=102(LC 5)
Max Uplift 1=-9(LC 8), 3=-48(LC 8)
Max Grav 1=167(LC 1), 3=180(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.

November 30,2023

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	V8C	Valley	2	1		I62280284

Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:49 2023 Page 1
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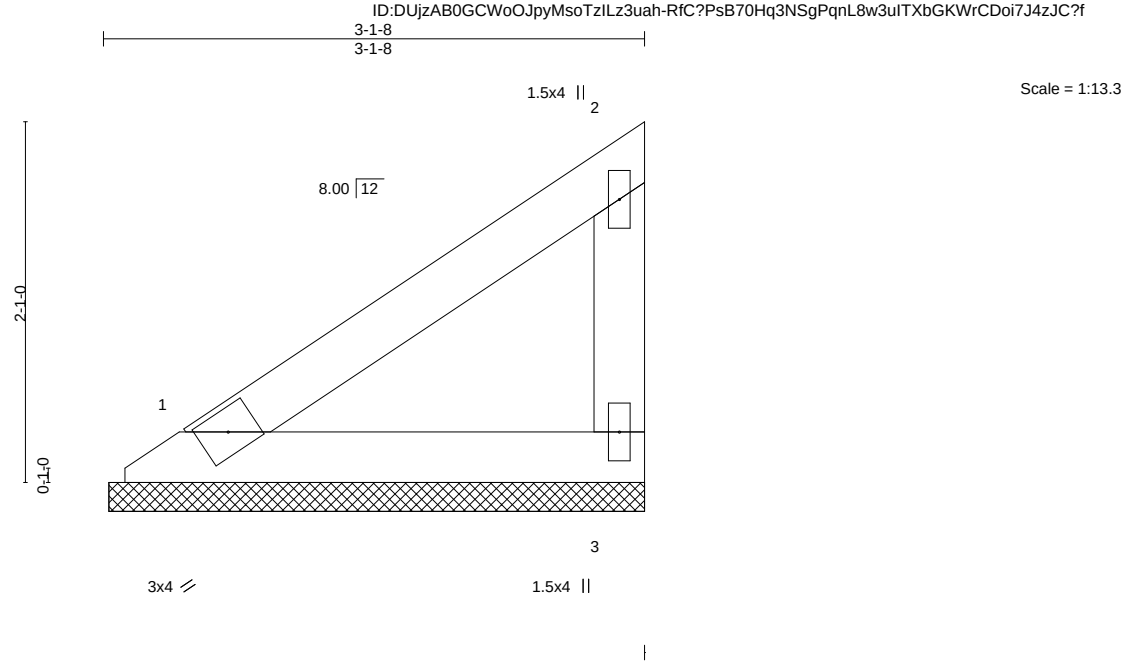

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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 3-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-1-2, 3=3-1-2
Max Horz 1=64(LC 5)
Max Uplift 1=-8(LC 8), 3=-30(LC 8)
Max Grav 1=112(LC 1), 3=120(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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	V37	Valley	2	1		I62280285
Premier Building Supply (Springhill, KS),	Spring Hills, KS - 66083,				Job Reference (optional)	

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:50 2023 Page 1
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1-7-8
1-7-8

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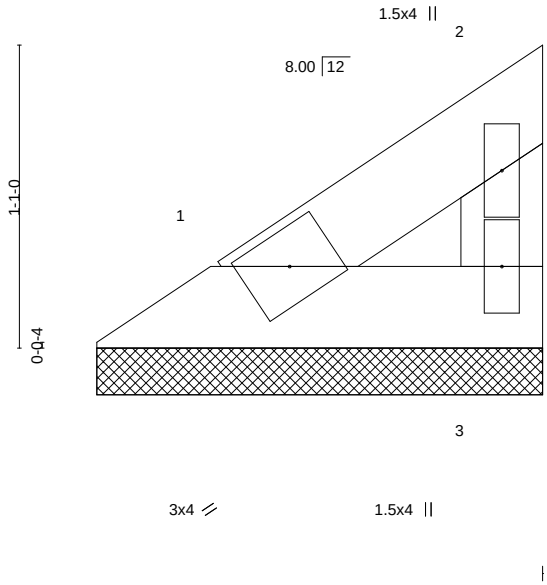

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 1-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=1-7-2, 3=1-7-2
Max Horz 1=25(LC 5)
Max Uplift 1=-3(LC 8), 3=-12(LC 8)
Max Grav 1=45(LC 1), 3=48(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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280286
P230812	V01	GABLE	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:51 2023 Page 1
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8-0-7 9-3-1
8-0-7 1-2-10

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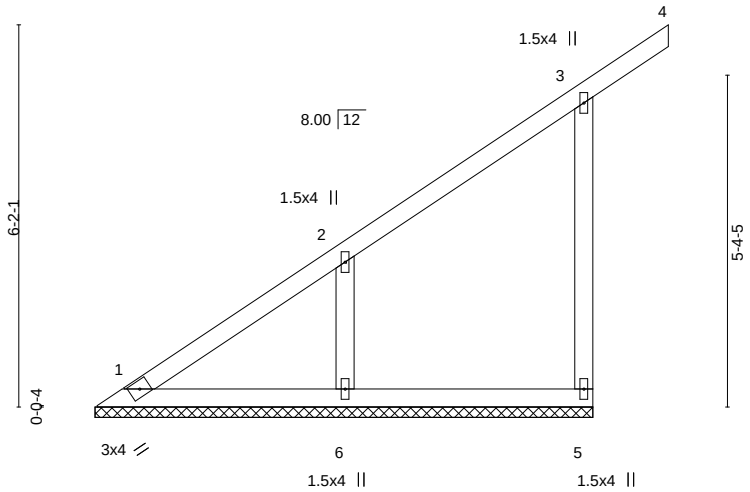

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	4	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	0.00	4	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 35 lb	FT = 20%

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

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

REACTIONS. (size) 1=8-0-7, 5=8-0-7, 6=8-0-7
Max Horz 1=222(LC 5)
Max Uplift 1=-11(LC 4), 5=-104(LC 5), 6=-138(LC 8)
Max Grav 1=156(LC 16), 5=260(LC 15), 6=405(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-6=-313/194

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=104, 6=138.
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.

November 30,2023

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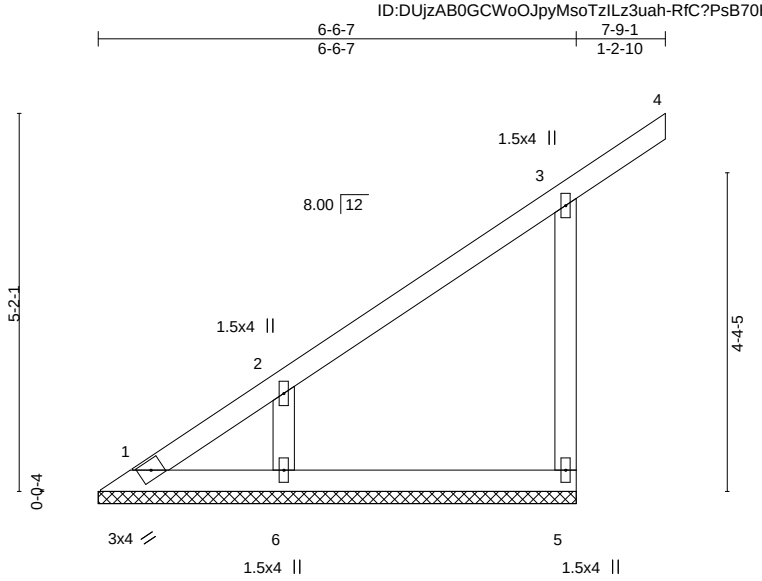
Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280287
P2309112	V02	GABLE	2	1	Job Reference (optional)	



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.00	4	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	0.00	4	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	-0.00	5	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 2x4 SPF No.3
OTHERS 2x4 SPF No.3

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

REACTIONS. (size) 1=6-6-7, 5=6-6-7, 6=6-6-7
Max Horz 1=184(LC 5)
Max Uplift 1=-29(LC 6), 5=-100(LC 5), 6=-114(LC 8)
Max Grav 1=93(LC 5), 5=267(LC 15), 6=340(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-6=-260/162

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=100, 6=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.

November 30,2023

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	I62280288
P230812	V03	GABLE	2	1	Job Reference (optional)	

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:52 2023 Page 1
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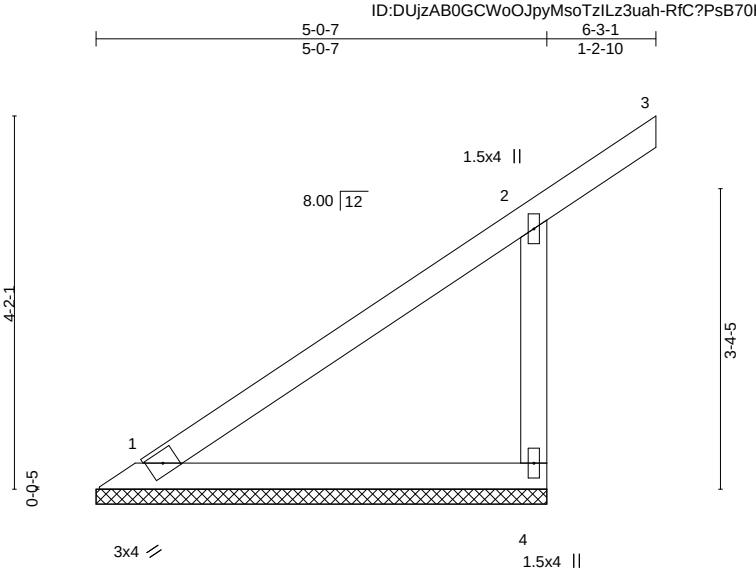

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.00	3	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	0.01	3	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 5-0-7 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
Max Horz 1=145(LC 5)
Max Uplift 4=-111(LC 8)
Max Grav 1=182(LC 1), 4=315(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-272/138

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=111.
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.

November 30,2023

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Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	V04	VALLEY	2	1		I62280289
Premier Building Supply (Springhill, KS),	Spring Hills, KS - 66083,				Job Reference (optional)	

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:53 2023 Page 1
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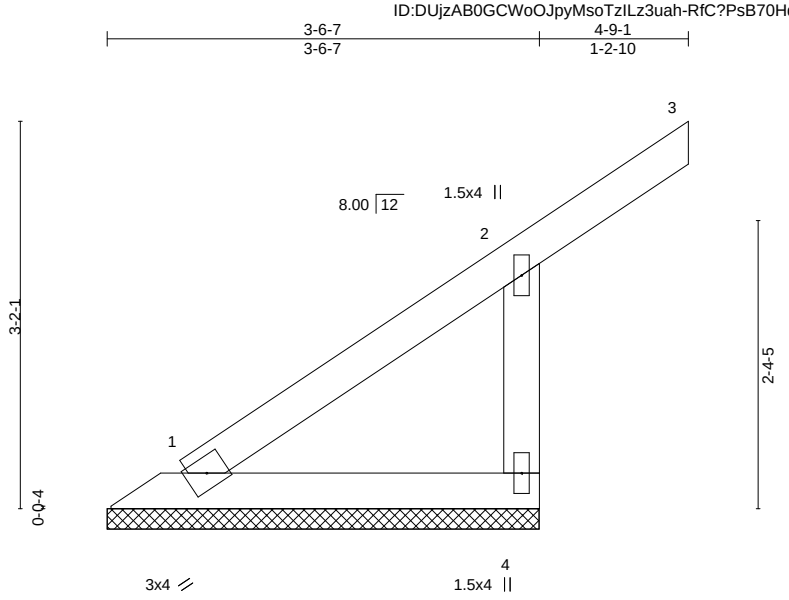


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	3	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	3	n/r	80		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 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=107(LC 5)
Max Uplift 4=-99(LC 8)
Max Grav 1=109(LC 16), 4=246(LC 15)

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

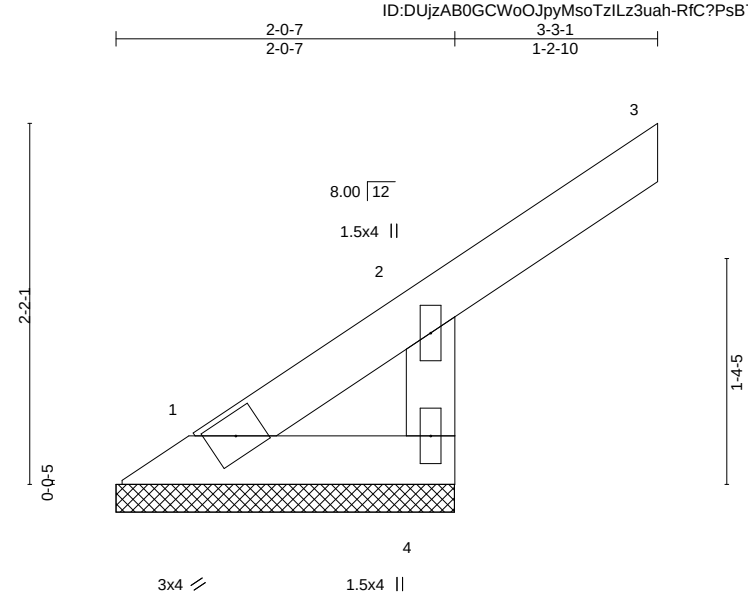
NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Gable requires continuous 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) 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.

November 30,2023

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

Job	Truss	Truss Type	Qty	Ply	Juneau Townhomes - Osage	
P230812	V08	VALLEY	2	1		I62280290
Premier Building Supply (Springhill, KS),	Spring Hills, KS - 66083,				Job Reference (optional)	

8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Nov 29 16:41:54 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	0.17	Vert(LL)	0.00	3	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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: 9 lb	FT = 20%

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

BRACING-
TOP CHORD Sheathed or 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=68(LC 5)
Max Uplift 1=-10(LC 4), 4=-91(LC 8)
Max Grav 1=61(LC 5), 4=205(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.

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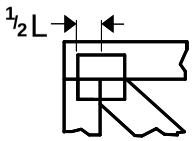
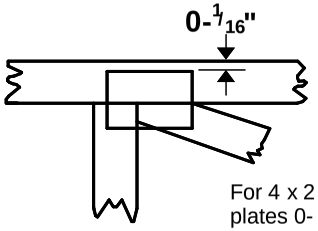
Symbols

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.

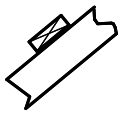
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

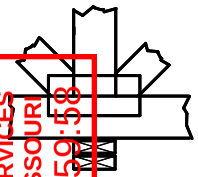
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

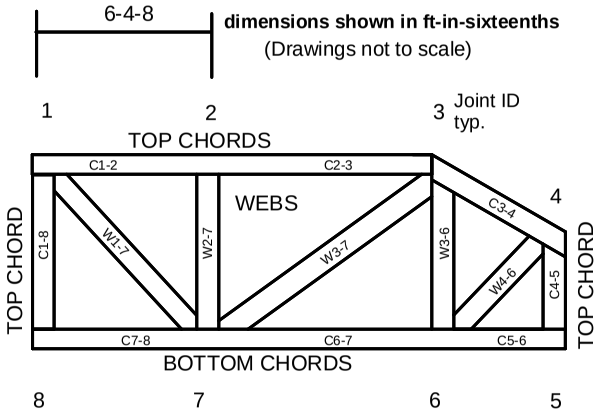


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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.