Job	Truss	Truss Type	Qty	Ply	Moonstone Lane
190182-R	A1	GABLE	1	1	Job Reference (optional)

Run: 8.320 s Aug 28 2019 Print: 8.320 s Aug 28 2019 MiTek Industries, Inc. Tue Nov 5 10:48:12 2019 Page 1
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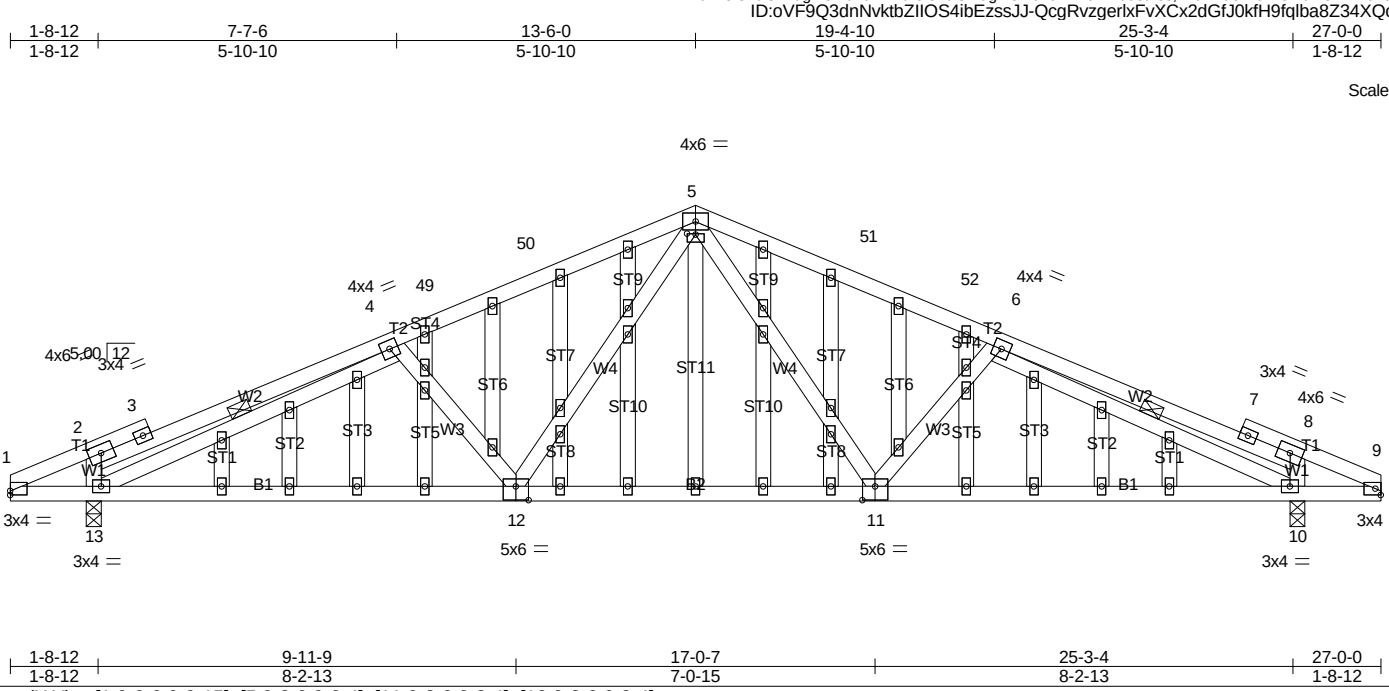

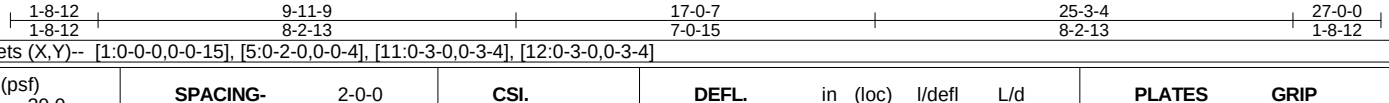

Plate Offsets (X,Y)-- [1:0-0-0,0-0-15], [5:0-2-0,0-0-4], [11:0-3-0,0-3-4], [12:0-3-0,0-3-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.10	10-11	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.63	Vert(TL)	-0.28	10-11	>999	180		
TCDL	14.0	Rep Stress Incr	YES	WB	0.42	Horz(TL)	0.08	10	n/a	n/a		
BCLL	0.0 *	Code IRC2012/TPI2007		Matrix-S							Weight: 155 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-10, 4-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 10=1458/0-3-8 (min. 0-2-5), 13=1458/0-3-8 (min. 0-2-5)
Max Horz 13=58(LC 13)
Max Uplift13=-7(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-287/0, 2-3=-347/0, 3-4=-320/0, 4-49=-1902/41, 49-50=-1801/52, 5-50=-1792/66, 5-51=-1792/66, 51-52=-1801/52, 6-52=-1902/41, 6-7=-320/6, 7-8=-347/0, 8-9=-287/0
BOT CHORD 1-13=0/296, 12-13=-2/1894, 11-12=0/1367, 10-11=0/1894, 9-10=0/296
WEBS 5-11=0/611, 6-11=-469/95, 6-10=-1799/102, 8-10=-479/123, 5-12=0/611, 4-12=-469/95, 4-13=-1799/102, 2-13=-479/123

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-6-0, Exterior(2) 13-6-0 to 16-6-0, Interior(1) 16-6-0 to 27-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are 2x4 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) 13.
10) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Moonstone Lane
190182-R	A2	Common Supported Gable	1	1	Job Reference (optional)

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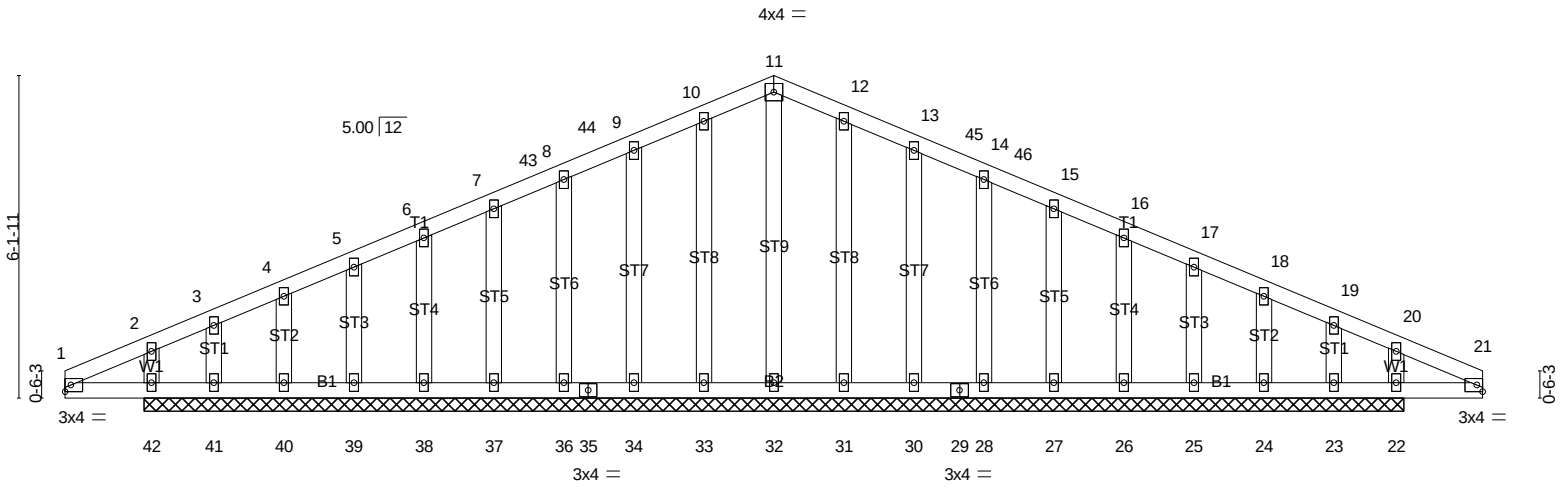
13-6-0 | 27-0-0
13-6-0 | 13-6-0

Scale = 1:43.9



13-6-0 | 27-0-0
13-6-0 | 13-6-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	23.1	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Ground Snow=30.0)		Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	14.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.00	22	n/a	n/a		
BCLL	0.0 *	Code IRC2012/TPI2007		Matrix-S							Weight: 129 lb	FT = 20%
BCDL	10.0											

LUMBER-

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

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 24-0-0.
(lb) - Max Horz 42=57(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 34, 40, 41, 30, 25, 23, 42, 22
Max Grav All reactions 250 lb or less at joint(s) 32, 33, 34, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23 except 42=253(LC 18), 22=253(LC 19)

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

NOTES-

1) Wind: ASCE 7-10; Vult=110mph (3-second gust) V(IRC2012)=87mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) 0-0-0 to 2-10-0, Exterior(2) 2-10-0 to 13-6-0, Corner(3) 13-6-0 to 16-6-0, Exterior(2) 16-6-0 to 27-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pg= 30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are 2x4 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) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 34, 36, 37, 38, 39, 40, 41, 30, 28, 27, 26, 25, 23, 42, and 22. This connection is for uplift only and does not consider lateral forces.
10) Non Standard bearing condition. Review required.
11) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Moonstone Lane
190182-R	A3	COMMON	27	1	Job Reference (optional)

Run: 8.320 s Aug 28 2019 Print: 8.320 s Aug 28 2019 MiTek Industries, Inc. Tue Nov 5 10:48:15 2019 Page 1
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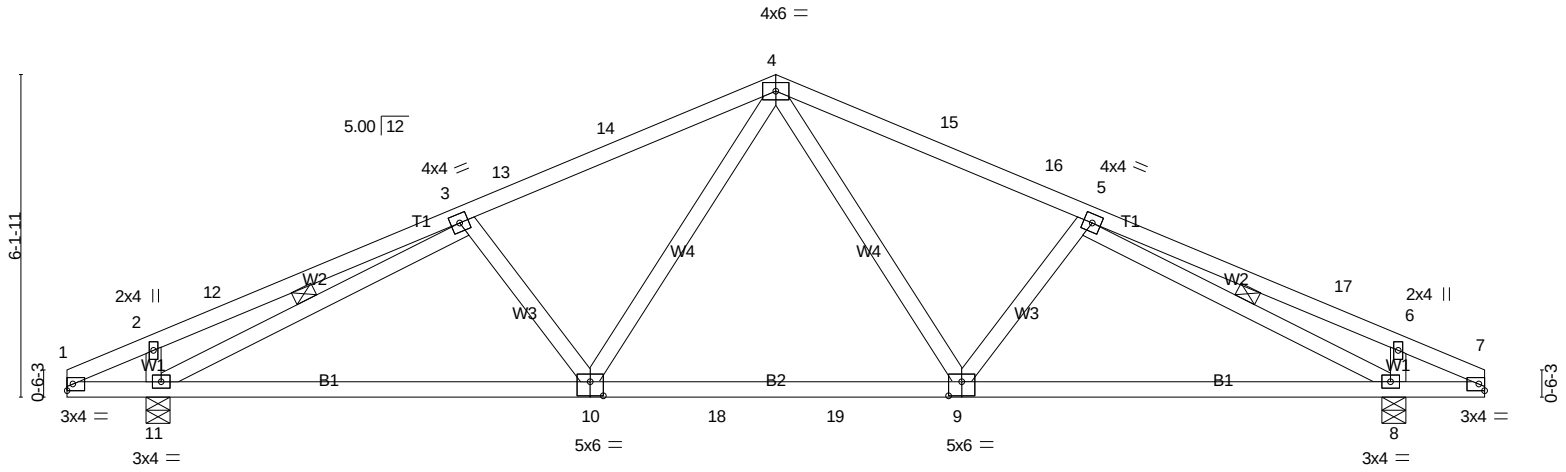
1-8-12	7-7-6	13-6-0	19-4-10	25-3-4	27-0-0
1-8-12	5-10-10	5-10-10	5-10-10	5-10-10	1-8-12

Scale = 1:43.9



1-8-12	9-11-9	17-0-7	25-3-4	27-0-0
1-8-12	8-2-13	7-0-15	8-2-13	1-8-12

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	30.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.13	9-10	>999	240	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.62	Vert(TL)	-0.26	8-9	>999	180		
TCDL	14.0	Rep Stress Incr	YES	WB	0.41	Horz(TL)	0.07	8	n/a	n/a		
BCLL	0.0 *	Code IRC2012/TPI2007		Matrix-S							Weight: 105 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-8, 3-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=1458/0-5-8 (min. 0-2-5), 11=1458/0-5-8 (min. 0-2-5)
Max Horz 11=-62(LC 12)
Max Uplift11=-7(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-251/0, 2-12=-349/0, 3-13=-1771/48, 13-14=-1670/59, 4-14=-1662/73, 4-15=-1662/73, 15-16=-1670/59, 5-16=-1771/48, 6-17=-349/0, 6-7=-251/0
BOT CHORD 10-11=0/1716, 10-18=0/1293, 18-19=0/1293, 9-19=0/1293, 8-9=0/1716
WEBS 4-9=0/546, 5-9=-396/95, 5-8=-1706/91, 6-8=-435/129, 4-10=0/546, 3-10=-396/95, 3-11=-1706/91, 2-11=-435/129

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-6-0, Exterior(2) 13-6-0 to 16-6-0, Interior(1) 16-6-0 to 27-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Moonstone Lane
190182-R	A4	GABLE	1	1	Job Reference (optional)

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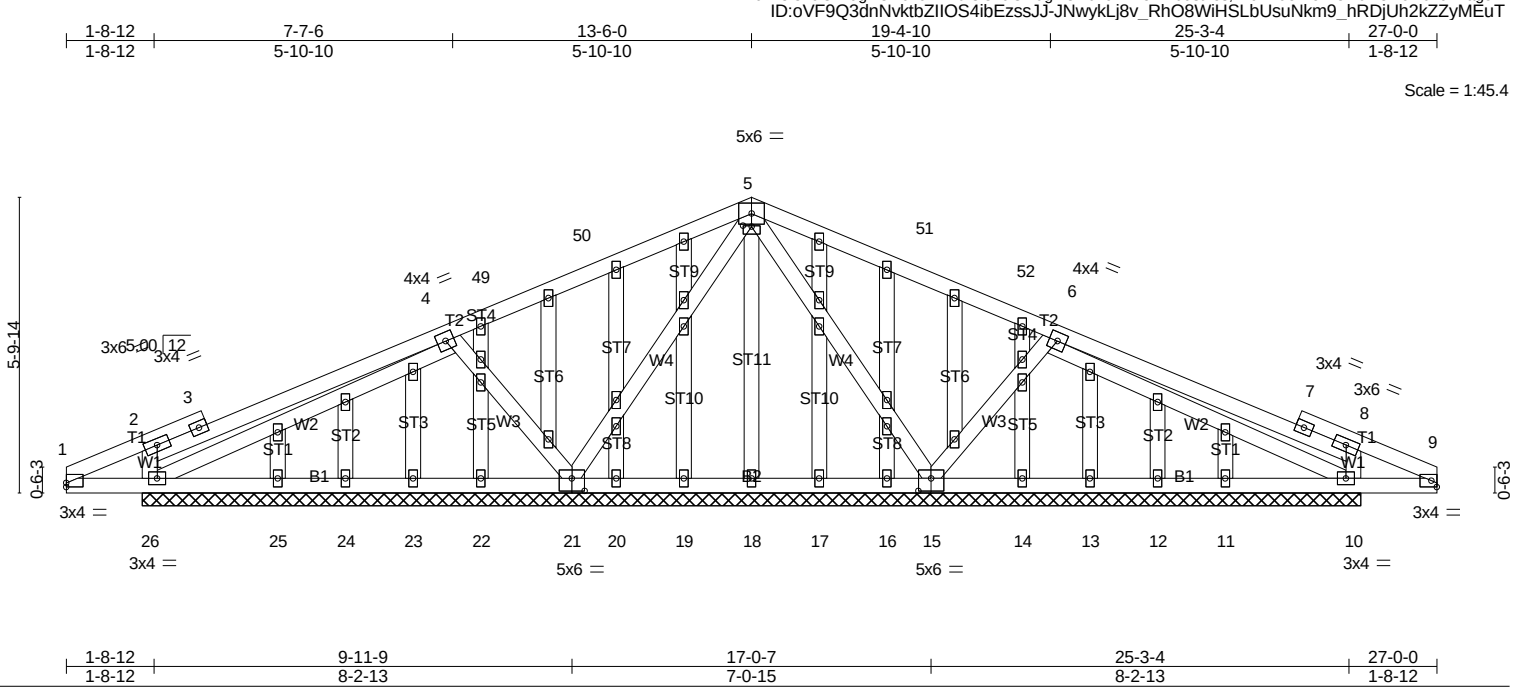

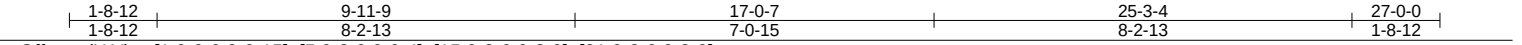

Plate Offsets (X,Y)-- [1:0-0-0,0-0-15], [5:0-2-0,0-0-4], [15:0-3-0,0-3-0], [21:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=30.0)		Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	14.0	Rep Stress Incr	YES	WB	0.31	Horz(TL)	0.01	10	n/a	n/a		
BCLL	0.0 *	Code IRC2012/TPI2007		Matrix-S							Weight: 155 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 1-26,9-10.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 24-0-0.
(lb) - Max Horz 26=-58(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 21, 15, 10, 26
Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 22, 23, 24, 25, 17, 16, 14, 13, 12, 11 except 21=846(LC 18), 15=846(LC 19), 10=519(LC 19), 26=519(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-50=0/310, 5-51=0/310
WEBS 5-15=-403/35, 6-15=-613/106, 8-10=-446/108, 5-21=-403/35, 4-21=-613/107, 2-26=-446/108

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-6-0, Exterior(2) 13-6-0 to 16-6-0, Interior(1) 16-6-0 to 27-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are 2x4 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) 21, 15, 10, 26.
10) Non Standard bearing condition. Review required.
11) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard