

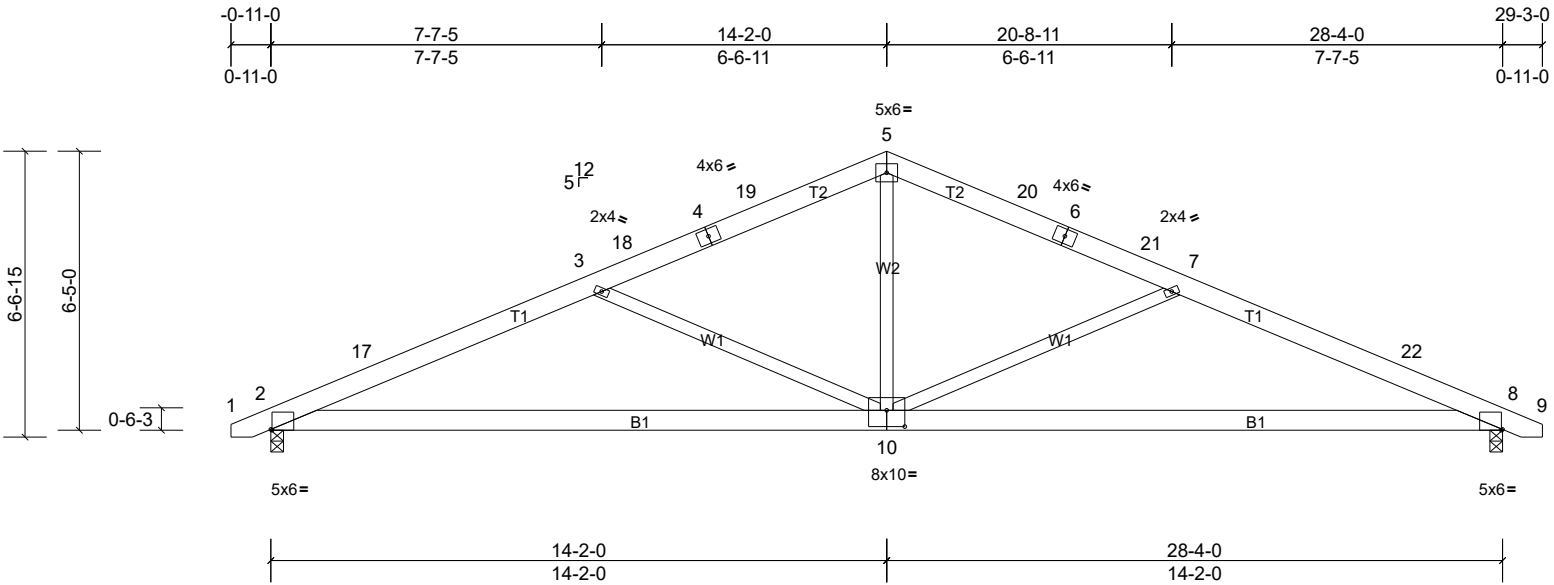
Job 20100130-B	Truss A1	Truss Type Common	Qty 4	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:53

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 20.0)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.17	10-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.39	10-16	>877	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MSH								
											Weight: 172 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 4-4-14 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 2=1174/0-3-8, (min. 0-1-8), 8=1174/0-3-8, (min. 0-1-8)
Max Horiz 2=-98 (LC 13)
Max Uplift 2=-127 (LC 12), 8=-127 (LC 13)
Max Grav 2=1189 (LC 19), 8=1189 (LC 20)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-2269/295, 3-17=-2248/321, 3-18=-1644/195, 4-18=-1581/204, 4-19=-1555/209, 5-19=-1555/223, 5-20=-1555/223,
6-20=-1555/209, 6-21=-1581/204, 7-21=-1644/195, 7-22=-2248/321, 8-22=-2269/295
BOT CHORD 2-10=-256/2075, 8-10=-207/2075
WEBS 5-10=0/864, 7-10=-765/267, 3-10=-765/266

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 2-3-15, Interior (1) 2-3-15 to 11-2-0, Exterior(2R) 11-2-0 to 17-2-0, Interior (1) 17-2-0 to 26-0-1, Exterior(2E) 26-0-1 to 29-0-1 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
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
- 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.

LOAD CASE(S) Standard

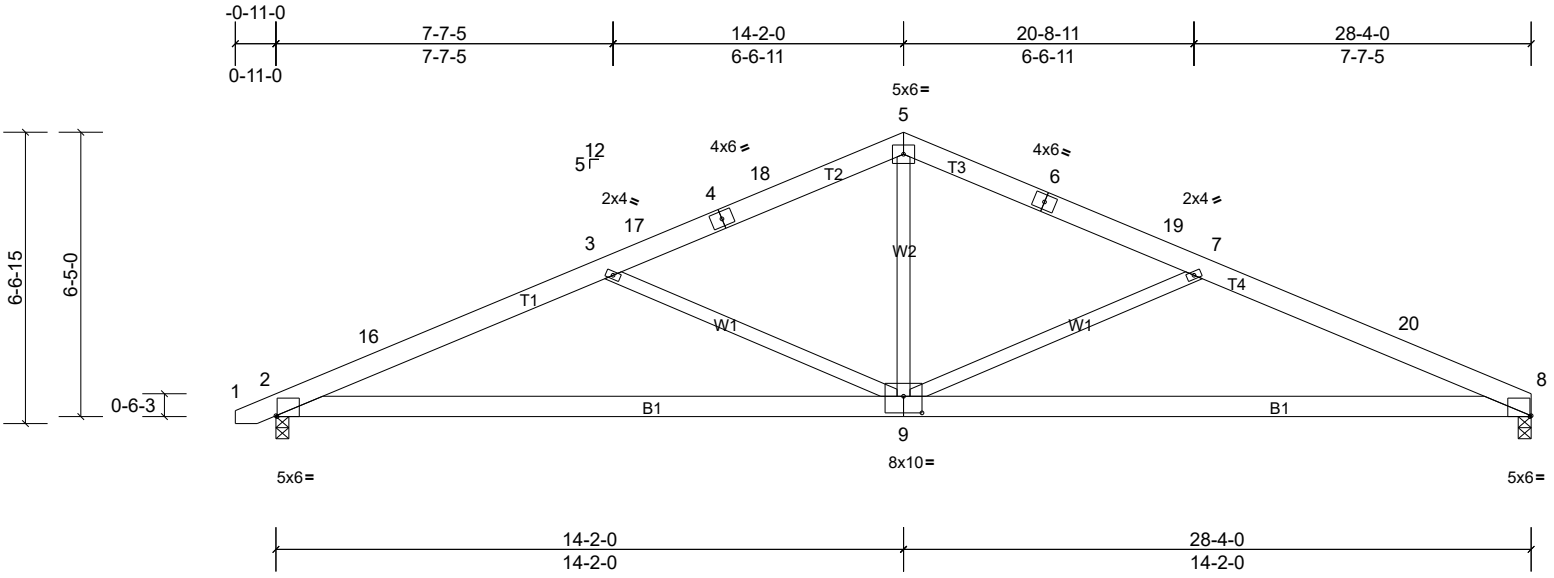
Job 20100130-B	Truss A1A	Truss Type Common	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:52

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.17	9-15	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.39	9-15	>874	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											Weight: 170 lb FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 4-4-5 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1174/0-3-8, (min. 0-1-8), 8=1133/0-3-8, (min. 0-1-8)
 Max Horiz 2=102 (LC 16)
 Max Uplift 2=-127 (LC 12), 8=-114 (LC 13)
 Max Grav 2=1189 (LC 19), 8=1148 (LC 20)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-16=-2270/299, 3-16=-2249/325, 3-17=-1645/200, 4-17=-1582/209, 4-18=-1557/214, 5-18=-1556/228, 5-6=-1556/228,
 6-19=-1561/213, 7-19=-1645/199, 7-20=-2242/330, 8-20=-2273/303
 BOT CHORD 2-9=-261/2076, 8-9=-231/2078
 WEBS 5-9=0/864, 7-9=-768/268, 3-9=-765/266

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 2-3-15, Interior (1) 2-3-15 to 11-2-0, Exterior(2R) 11-2-0 to 17-2-0, Interior (1) 17-2-0 to 25-4-0, Exterior(2E) 25-4-0 to 28-4-0 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
 - 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.

LOAD CASE(S) Standard

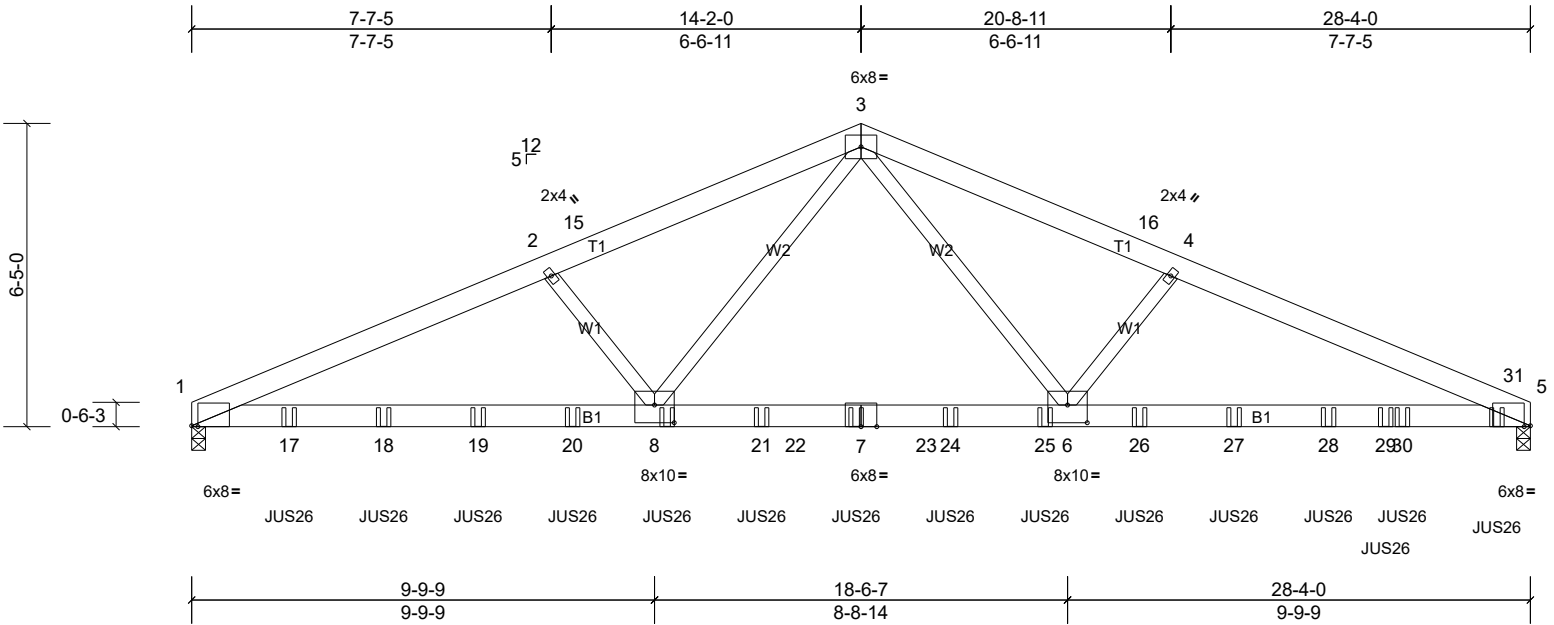
Job 20100130-B	Truss A2	Truss Type Common Girder	Qty 1	Ply 2	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:48.8

Plate Offsets (X, Y): [1:0-1-9,Edge], [5:0-1-9,Edge], [6:0-5-0,0-4-8], [8:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.27	6-14	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.49	6-14	>690	180		
TCDL	10.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.08	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 340 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=5004/0-3-8, (min. 0-2-2), 5=5674/0-3-8, (min. 0-2-6)
Max Horiz 1=-94 (LC 15)
Max Uplift 1=-443 (LC 10), 5=-536 (LC 11)
Max Grav 1=5169 (LC 3), 5=5689 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-10254/890, 2-15=-9957/835, 3-15=-9940/862, 3-16=-10127/901, 4-16=-10143/874, 4-5=-10461/933
BOT CHORD 1-17=-848/9518, 17-18=-848/9518, 18-19=-848/9518, 19-20=-848/9518, 20-21=-848/9518, 21-22=-476/6436, 22-23=-476/6436, 23-24=-476/6436, 24-25=-476/6436, 25-26=-476/6436, 26-27=-799/9735, 27-28=-799/9735, 28-29=-799/9735, 29-30=-799/9735, 30-31=-799/9735, 31-32=-579/6684, 32-33=-579/6684
WEBS 3-8=-384/4545, 3-6=-443/4826, 2-8=-808/241, 4-6=-932/258

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 27-7-8 to connect truss(es) E2 (1 ply 2x6 SP), E3 (1 ply 2x6 SP), E2 (1 ply 2x6 SP), E5 (1 ply 2x6 SP), K1 (1 ply 2x6 SP) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Job	Truss	Truss Type	Qty	Ply	1 SouthPark II-Roof-Miller
20100130-B	A2	Common Girder	1	2	Job Reference (optional)

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Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-5=-60, 9-12=-20

Concentrated Loads (lb)

Vert: 7=-577 (F), 8=-577 (F), 17=-585 (F), 18=-585 (F), 19=-577 (F), 20=-577 (F), 21=-577 (F), 24=-577 (F), 25=-585 (F), 26=-585 (F), 27=-585 (F), 28=-585 (F), 29=-585 (F), 30=-428 (F), 31=-431 (F)

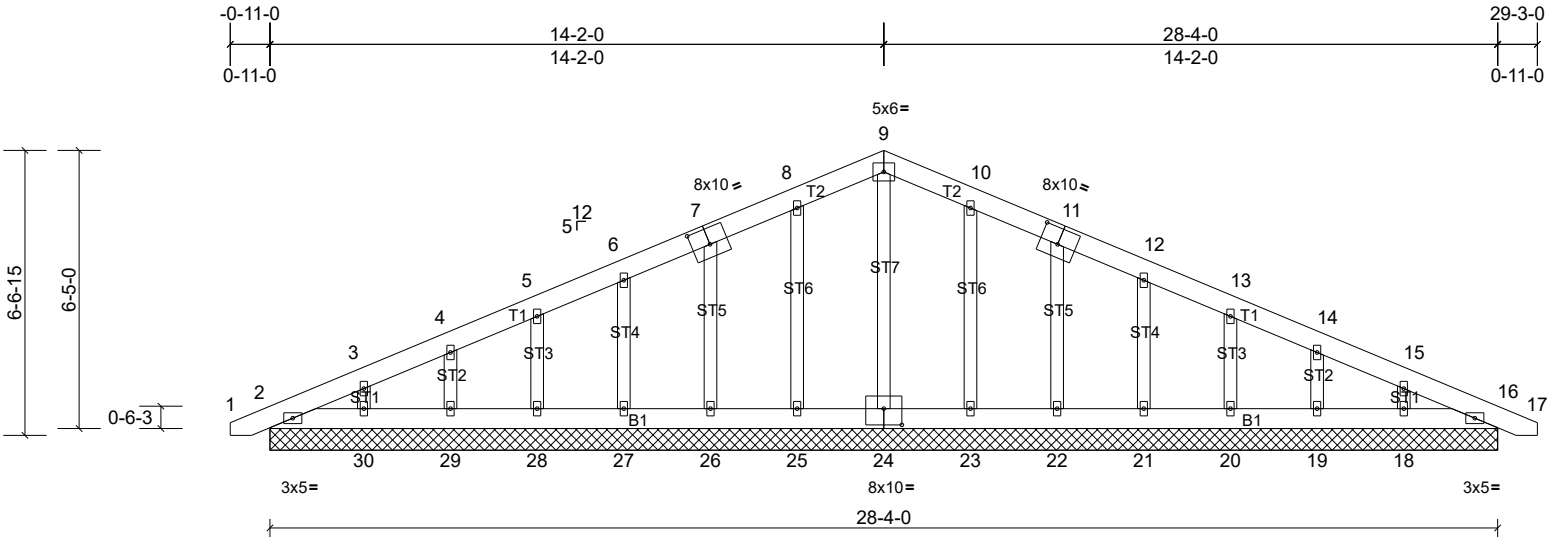
Job 20100130-B	Truss A3	Truss Type Common Supported Gable	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:53.2

Plate Offsets (X, Y): [7:0-5-0,0-4-8], [11:0-5-0,0-4-8], [24:0-5-0,0-4-8]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 198 lb	FT = 20%

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

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.

REACTIONS All bearings 28-4-0.
(lb) - Max Horiz 2=-95 (LC 13), 31=-95 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 16, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 34
Max Grav All reactions 250 (lb) or less at joint(s) 2, 16, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 34

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

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-1 to 2-2-0, Exterior(2N) 2-2-0 to 11-2-0, Corner(3R) 11-2-0 to 17-2-0, Exterior(2N) 17-2-0 to 26-0-1, Corner(3E) 26-0-1 to 29-0-1 zone;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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, and 16. This connection is for uplift only and does not consider lateral forces.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

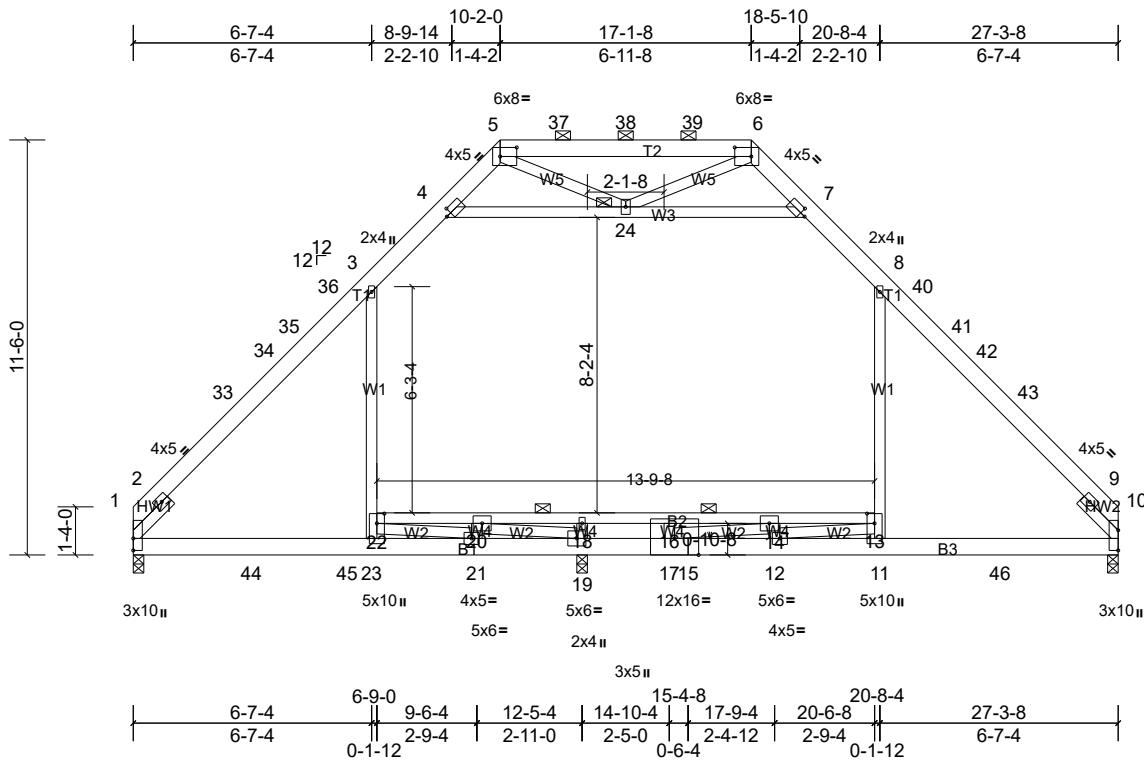
Job 20100130-B	Truss B1	Truss Type Attic	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:63.8

Plate Offsets (X, Y): [4:0-1-13,0-2-0], [5:0-5-8,0-3-0], [6:0-5-8,0-3-0], [7:0-1-13,0-2-0], [11:0-3-4,0-2-8], [23:0-3-4,0-2-8]

Loading	(psf)	Spacing		CSI		DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.87	Vert(LL)	0.31 23-27	>478	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.48 11	>368	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	-0.07 10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.27 13-22	>617	360		
BCDL	10.0									Weight: 239 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E *Except* B2:2x4 SP No.2, B3:2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W1,W3:2x4 SP No.2
SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.2 -- 1-6-0
REACTIONS (lb/size) 1=1045/0-3-8, (min. 0-1-8), 10=1109/0-3-8, (min. 0-1-12), 19=715/0-3-8, (min. 0-1-11)
Max Horiz 1=-241 (LC 10)
Max Grav 1=1293 (LC 43), 10=1465 (LC 47), 19=1622 (LC 18)

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 19-21,17-19.
4-11-0 oc bracing: 13-22
JOINTS
1 Brace at Jt(s): 24
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-501/358, 2-33=-1466/184, 33-34=-1342/194, 34-35=-1303/198, 35-36=-1270/199, 3-36=-1241/209, 3-4=-986/183,
4-5=-563/209, 5-37=-438/221, 37-38=-438/221, 38-39=-438/221, 6-39=-438/221, 6-7=-579/145, 7-8=-948/253,
8-40=-1293/64, 40-41=-1302/58, 41-42=-1355/49, 42-43=-1394/43, 9-43=-1519/15, 9-10=-433/0
BOT CHORD 1-44=-243/894, 44-45=-12/894, 23-45=-12/894, 21-23=-371/844, 19-21=-753/369, 17-19=-380/1351, 15-17=0/2062,
12-15=0/2062, 11-12=0/1133, 11-46=0/921, 10-46=0/921, 20-22=-177/1082, 18-20=-1323/1046, 16-18=-1323/1046,
14-16=-1323/1046, 13-14=-1394/202
WEBS 22-23=-139/530, 3-22=-170/459, 11-13=-250/147, 8-13=0/604, 4-24=-1317/226, 7-24=-1079/375, 18-19=-517/143,
20-21=-412/127, 21-22=-788/93, 12-13=-138/1152, 19-20=-679/2180, 14-17=-1980/0

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-11-1, Exterior(2R) 5-11-1 to 21-4-7, Interior (1) 21-4-7 to 24-3-8, Exterior(2E) 24-3-8 to 27-3-8 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Provide adequate drainage to prevent water ponding.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-24, 7-24; Wall dead load (5.0psf) on member(s).3-22, 8-13
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 20-22, 18-20, 16-18, 14-16, 13-14
 - 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.
 - 11) Attic room checked for L/360 deflection.

Job 20100130-B	Truss B1	Truss Type Attic	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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LOAD CASE(S) Standard

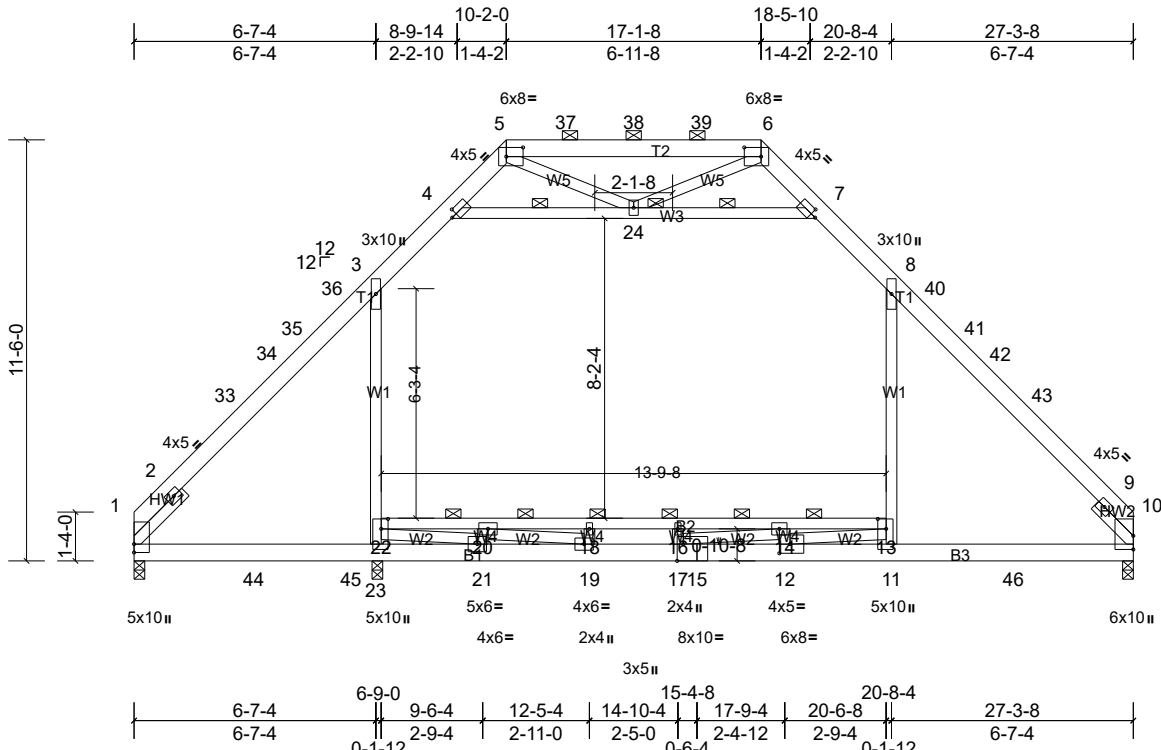
Job 20100130-B	Truss B2	Truss Type Attic	Qty 2	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:62.9

Plate Offsets (X, Y): [4:0-1-13,0-2-0], [5:0-5-8,0-3-0], [6:0-5-8,0-3-0], [7:0-1-13,0-2-0], [12:0-3-8,0-3-0], [13:0-3-4,0-2-12], [15:0-2-0,Edge], [22:0-3-4,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.39	14-16	>639	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.59	14-16	>419	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	-0.03	1	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.26	13-22	>635	360		
BCDL	10.0											
											Weight: 240 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* T2:2x6 SP No.2
 BOT CHORD 2x6 SP 2400F 2.0E *Except* B2:2x4 SP No.2
 WEBS 2x4 SP No.2 *Except* W4,W5:2x4 SP No.3
 SLIDER Left 2x4 SP No.2 -- 2-0-0, Right 2x4 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except
 2-0-0 oc purlins (6-0-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
 2-10-0 oc bracing: 13-22
 WEBS 1 Row at midpt 4-24, 7-24
 JOINTS 1 Brace at Jt(s): 24

REACTIONS

(lb/size) 1=1256/0-3-8, (min. 0-1-9), 10=1378/0-3-8, (min. 0-1-12),
 23=236/0-3-8, (min. 0-1-8)
 Max Horiz 1=241 (LC 9)
 Max Uplift 1=7 (LC 13), 23=-310 (LC 9)
 Max Grav 1=1900 (LC 47), 10=2081 (LC 47), 23=575 (LC 33)

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

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-370/859, 2-33=-2378/18, 33-34=-2266/21, 34-35=-2227/27, 35-36=-2165/33, 3-36=-2164/48, 3-4=-1360/112,
 4-5=-488/397, 5-37=-335/536, 37-38=-335/536, 38-39=-335/536, 6-39=-335/536, 6-7=-509/335, 7-8=-1318/112,
 8-40=-2089/0, 40-41=-2090/0, 41-42=-2152/0, 42-43=-2191/0, 9-43=-2315/0, 9-10=-412/0
 BOT CHORD 1-44=-166/1386, 44-45=0/1386, 23-45=0/1386, 21-23=0/1128, 19-21=0/2960, 17-19=0/4856, 15-17=0/3879,
 12-15=0/3879, 11-12=0/1440, 11-46=0/1415, 10-46=0/1415, 20-22=-1669/0, 18-20=-3564/0, 16-18=-3564/0,
 14-16=-3564/0, 13-14=-2588/0
 WEBS 4-24=-2207/150, 7-24=-2027/94, 22-23=-228/562, 3-22=-100/1170, 11-13=0/334, 8-13=0/1308, 18-19=-329/0,
 16-17=-312/0, 20-21=-912/0, 12-14=-680/0, 21-22=0/2103, 12-13=0/2737, 19-20=0/1964, 14-17=0/1012

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-11-1, Exterior(2R) 5-11-1 to 21-4-7, Interior (1) 21-4-7 to 24-3-8, Exterior(2E) 24-3-8 to 27-3-8 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-24, 7-24; Wall dead load (5.0psf) on member(s).3-22, 8-13
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 20-22, 18-20, 16-18, 14-16, 13-14
- 9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 23. This connection is for uplift only and does not consider lateral forces.
- 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.

Job 20100130-B	Truss B2	Truss Type Attic	Qty 2	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

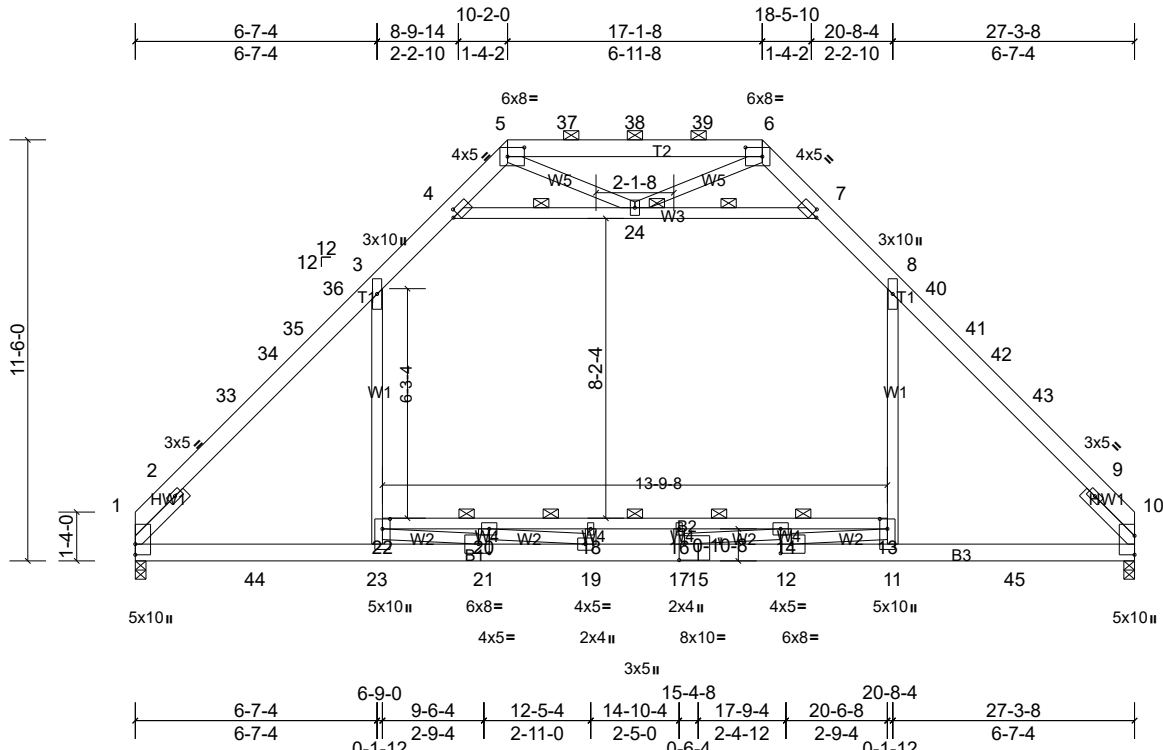
Job 20100130-B	Truss B3	Truss Type Attic	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:62.9

Plate Offsets (X, Y): [4:0-1-13,0-2-0], [5:0-5-8,0-3-0], [6:0-5-8,0-3-0], [7:0-1-13,0-2-0], [12:0-3-8,0-3-0], [13:0-3-4,0-2-8], [15:0-1-12,0-5-4], [21:0-3-8,0-3-0], [22:0-3-4,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.38	16-18	>854	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.58	16-18	>562	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.05	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.24	13-22	>679	360		
BCDL	10.0											
											Weight: 241 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* T2:2x6 SP No.2
 BOT CHORD 2x6 SP 2400F 2.0E *Except* B2:2x4 SP No.2
 WEBS 2x4 SP No.2 *Except* W4,W5:2x4 SP No.3
 SLIDER Left 2x4 SP No.2 -- 2-0-0, Right 2x4 SP No.2 -- 2-0-0
REACTIONS (lb/size) 1=1435/0-3-8, (min. 0-1-12), 10=1435/0-3-8, (min. 0-1-13)
 Max Horiz 1=241 (LC 9)
 Max Grav 1=2118 (LC 43), 10=2153 (LC 43)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except
 2-0-0 oc purlins (6-0-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
 3-3-0 oc bracing: 13-22
 WEBS 1 Row at midpt 4-24, 7-24
 JOINTS 1 Brace at Jt(s): 24

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

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-351/694, 2-33=-2489/0, 33-34=-2377/0, 34-35=-2338/0, 35-36=-2276/0, 3-36=-2275/0, 3-4=-1448/89, 4-5=-466/413, 5-37=-289/570, 37-38=-289/570, 38-39=-289/570, 6-39=-289/570, 6-7=-466/404, 7-8=-1441/89, 8-40=-2289/0, 40-41=-2290/0, 41-42=-2352/0, 42-43=-2391/0, 9-43=-2503/0, 9-10=-372/0
 BOT CHORD 1-44=-187/1593, 23-44=0/1593, 21-23=-48/1531, 19-21=0/3544, 17-19=0/4997, 15-17=0/3699, 12-15=0/3699, 11-12=0/1433, 11-45=0/1573, 10-45=0/1573, 20-22=-1995/0, 18-20=-3566/0, 16-18=-3566/0, 14-16=-3566/0, 13-14=-2267/0
 WEBS 4-24=-2276/27, 7-24=-2253/27, 22-23=-61/611, 3-22=0/1383, 11-13=-66/565, 8-13=0/1418, 18-19=-327/0, 16-17=-315/0, 20-21=-817/0, 12-14=-773/0, 21-22=0/2347, 12-13=0/2556, 19-20=-72/1628, 14-17=-79/1380

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-11-1, Exterior(2R) 5-11-1 to 21-4-7, Interior (1) 21-4-7 to 24-3-8, Exterior(2E) 24-3-8 to 27-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-24, 7-24; Wall dead load (5.0psf) on member(s).3-22, 8-13
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 20-22, 18-20, 16-18, 14-16, 13-14
- 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.
- 11) Attic room checked for L/360 deflection.

Job 20100130-B	Truss B3	Truss Type Attic	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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LOAD CASE(S) Standard

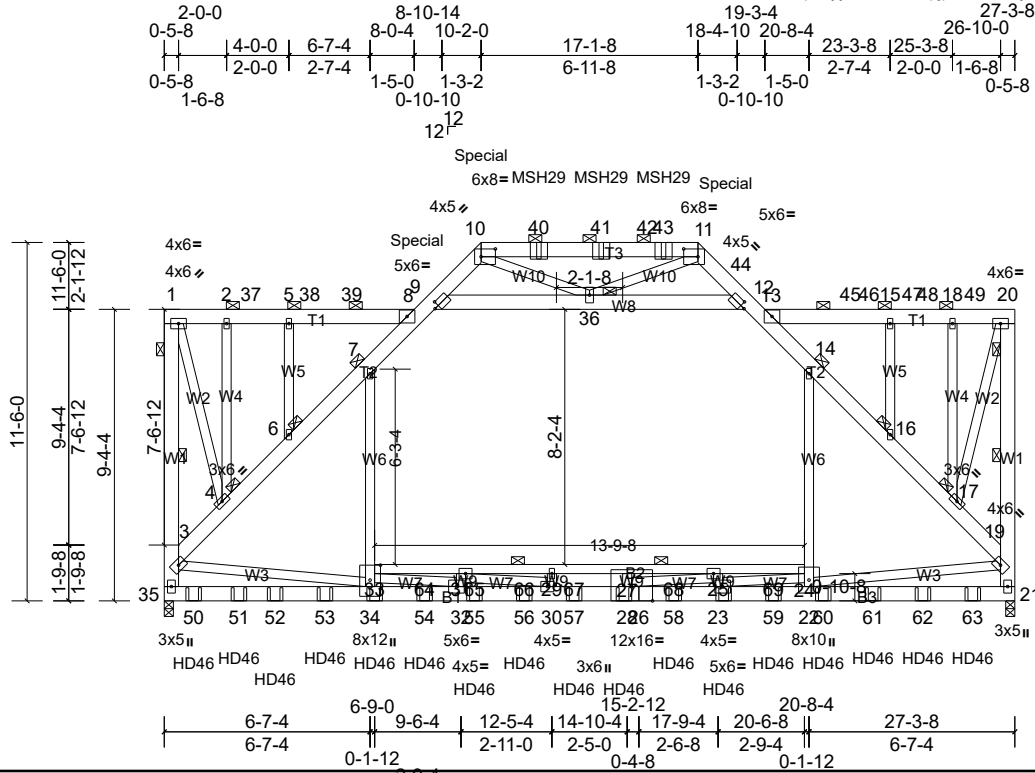
Job 20100130-B	Truss B4	Truss Type Attic Girder	Qty 1	Ply 3	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:73.9

Plate Offsets (X, Y): [9:0-1-11,0-2-0], [10:0-5-8,0-3-0], [11:0-5-8,0-3-0], [12:0-1-11,0-2-0], [33:0-5-12,0-4-0]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.22	29-31	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.32	29-31	>995	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.02	21	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.14	24-33	>999	360		
BCDL	10.0											Weight: 1141 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP 2400F 2.0E *Except* B2:2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* W8,W1:2x6 SP No.2

REACTIONS (lb/size) 21=5770/0-3-8, (min. 0-2-0), 35=5406/0-3-8, (min. 0-2-1)
 Max Horiz 35=-269 (LC 8)
 Max Grav 21=7292 (LC 48), 35=7394 (LC 50)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-8, 3-8, 10-11, 13-19, 13-20.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 34-35, 6-0-0 oc bracing: 24-33
 WEBS 1 Row at midpt 1-35, 20-21
 JOINTS 1 Brace at Jt(s): 7, 14, 36, 4, 17, 6, 16, 1, 20

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-771/40, 2-37=-771/40, 5-37=-771/40, 5-38=-771/39, 38-39=-771/39, 8-39=-771/39, 3-4=-6020/0, 4-6=-5740/0, 6-7=-5628/0, 7-8=-4613/81, 8-9=-4366/0, 9-10=-2108/267, 10-40=-1440/239, 40-41=-1440/239, 41-42=-1440/239, 42-43=-1440/239, 11-43=-1440/239, 11-44=-1814/279, 12-44=-2251/286, 12-13=-4594/8, 13-14=-4895/86, 14-16=-5716/0, 16-17=-5867/0, 17-19=-6170/0, 13-45=-588/0, 45-46=-588/0, 15-46=-588/0, 15-47=-589/0, 47-48=-589/0, 18-48=-589/0, 18-49=-589/0, 20-49=-589/0, 3-35=-6867/0, 1-3=-2213/8, 19-21=-7198/0, 19-20=-1827/14
 BOT CHORD 35-50=-270/694, 50-51=-270/694, 51-52=-270/694, 52-53=-270/694, 34-53=-270/694, 34-54=0/4450, 32-55=0/7724, 55-56=0/7724, 30-56=0/7724, 30-57=0/9292, 28-57=0/9292, 26-28=0/6710, 26-58=0/6710, 23-58=0/6710, 23-59=0/4191, 22-59=0/4191, 22-60=-37/383, 60-61=-37/383, 61-62=-37/383, 62-63=-37/383, 21-63=-37/383, 33-64=-3732/0, 31-64=-3732/0, 31-65=-5550/0, 65-66=-5550/0, 29-66=-5550/0, 29-67=-5550/0, 27-67=-5550/0, 27-68=-5550/0, 25-68=-5550/0, 25-69=-2517/0, 24-69=-2517/0
 WEBS 33-34=-207/722, 7-33=0/2033, 22-24=-231/731, 14-24=0/1713, 9-36=-3416/0, 12-36=-3731/0, 29-30=-257/0, 27-28=-267/0, 31-32=-835/0, 23-25=-1181/0, 32-33=0/4082, 23-24=0/3123, 30-31=0/1883, 25-28=0/3142, 11-36=-32/266, 3-34=0/4121, 19-22=0/4213, 2-4=-2122/0, 17-18=-1873/0, 5-6=-466/205, 15-16=-451/156, 1-4=0/2538, 17-20=0/2123

NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.

Job 20100130-B	Truss B4	Truss Type Attic Girder	Qty 1	Ply 3	1 SouthPark II-Roof-Miller Job Reference (optional)
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- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 9-36, 12-36; Wall dead load (5.0psf) on member(s).7-33, 14-24
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 31-33, 29-31, 27-29, 25-27, 24-25
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use USP HD46 (With 8-16d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 1-7-4 oc max. starting at 0-11-5 from the left end to 25-11-5 to connect truss(es) F01 (1 ply 2x4 SP), F02 (1 ply 2x4 SP), F03 (1 ply 2x4 SP), F06 (1 ply 2x4 SP) to back face of bottom chord.
- 15) Use USP MSH29 (With 10d nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 12-0-4 from the left end to 16-0-4 to connect truss(es) E3 (1 ply 2x6 SP) to back face of top chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 298 lb down and 16 lb up at 0-2-12, 624 lb down and 34 lb up at 2-0-4, 624 lb down and 34 lb up at 4-0-4, 624 lb down and 34 lb up at 6-0-4, 597 lb down and 32 lb up at 8-1-6, 597 lb down and 34 lb up at 10-2-0, 615 lb down and 48 lb up at 18-0-4, 604 lb down and 34 lb up at 19-2-2, 624 lb down and 34 lb up at 22-0-4, 624 lb down and 34 lb up at 24-0-4, and 624 lb down and 34 lb up at 26-0-4, and 585 lb down and 36 lb up at 27-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-8=-58, 8-10=-58, 10-11=-58, 11-13=-58, 13-20=-58, 21-35=-19, 24-33=-29, 9-36=-10, 12-36=-10

Drag: 7-33=-10, 14-24=-10

Concentrated Loads (lb)

Vert: 8=-533 (B), 10=-533 (B), 19=-574, 13=-540, 34=-63 (B), 28=-63 (B), 23=-21 (B), 2=-540, 5=-540, 1=-262, 39=-540, 40=-533 (B), 41=-533 (B), 43=-533 (B), 44=-533 (B), 45=-540, 47=-540, 49=-540, 50=-67 (B), 51=-66 (B), 54=-63 (B), 55=-63 (B), 56=-63 (B), 57=-63 (B), 58=-21 (B), 59=-21 (B), 60=-21 (B), 61=-21 (B), 62=-21 (B), 63=-21 (B)

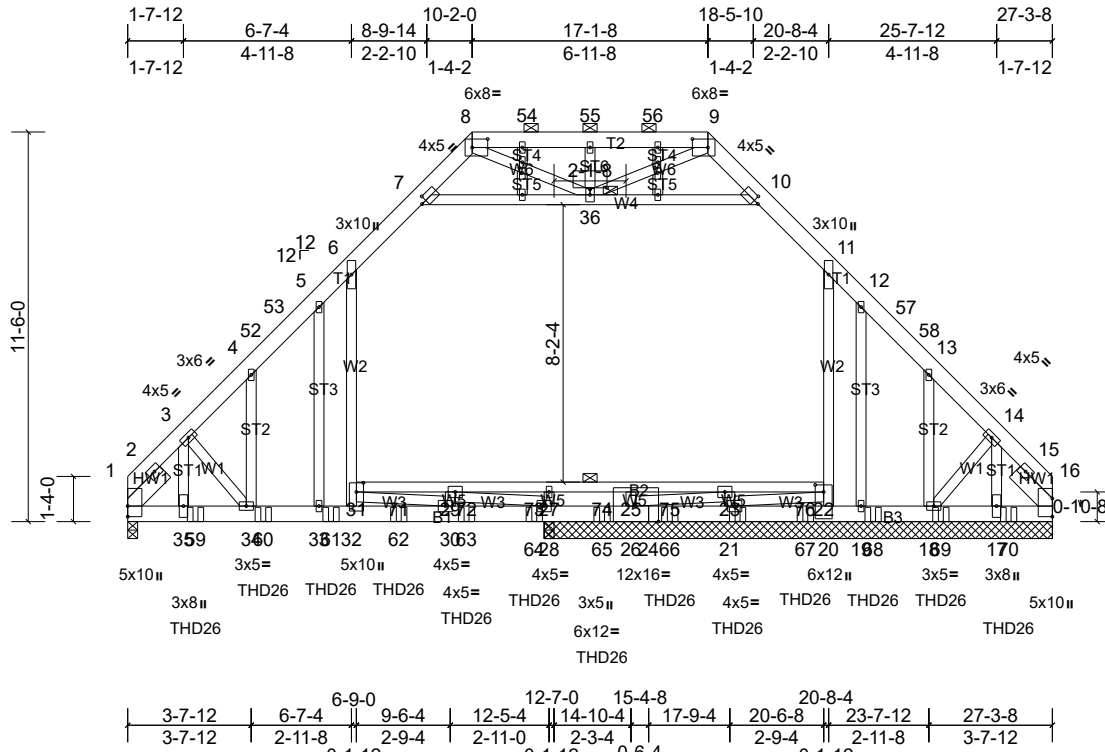
Job 20100130-B	Truss B5	Truss Type Attic Girder	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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ID:P3fpxCANV1ch4l0z388e1xy3TnH-4lp4zs53OM6WT1B9RAE1ckP8qeVuY4hs9FnsXKy3R9Y



Scale = 1:68

Plate Offsets (X, Y): [7:0-1-13,0-2-0], [8:0-5-8,0-3-0], [9:0-5-8,0-3-0], [10:0-1-13,0-2-0], [22:0-2-8,0-3-0], [31:0-3-4,0-2-8], [36:0-6-0,0-0-10], [40:0-1-13,0-1-0], [41:0-1-13,0-1-0]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	0.21	33-34	>699	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.36	33-34	>416	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.06	1	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	0.10	22-31	>999	360		
BCDL	10.0											
											Weight: 291 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E *Except* B2:2x4 SP No.1
WEBS 2x4 SP No.3 *Except* W4,W2:2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 26-28.
10-0-0 oc bracing: 22-31
JOINTS 1 Brace at Jt(s): 36

REACTIONS All bearings 15-0-0. except 1=0-3-8
(lb) - Max Horiz 1=-233 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s) 21, 26 except 1=-324 (LC 10), 16=-254 (LC 7), 17=-166 (LC 10), 18=-281 (LC 11), 19=-234 (LC 10), 20=-1059 (LC 33), 28=-396 (LC 10), 48=-254 (LC 7)
Max Grav All reactions 250 (lb) or less at joint(s) except 1=2025 (LC 31), 16=1230 (LC 31), 17=775 (LC 31), 18=298 (LC 41), 19=719 (LC 31), 20=477 (LC 10), 21=743 (LC 4), 26=337 (LC 40), 28=2061 (LC 27), 48=1230 (LC 31)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1193/224, 2-3=-2087/378, 3-4=-1774/244, 4-52=-1719/251, 52-53=-1659/255, 5-53=-1618/262, 5-6=-1654/300, 6-7=-1177/267, 7-8=-393/217, 9-10=-390/241, 10-11=-1168/270, 11-12=-1911/525, 12-57=-1597/394, 57-58=-1622/388, 13-58=-1691/379, 13-14=-1532/357, 14-15=-1213/276, 15-16=-567/127
BOT CHORD 1-35=-427/1307, 35-59=-427/1307, 34-59=-427/1307, 34-60=-282/1140, 33-60=-282/1140, 33-61=-282/1140, 32-61=-282/1140, 32-62=-303/1235, 30-62=-303/1235, 30-63=-13/725, 63-64=-13/725, 28-64=-13/725, 28-65=-1239/495, 26-65=-1239/495, 21-67=-163/863, 20-67=-163/863, 19-20=-265/1099, 19-68=-265/1100, 18-68=-265/1100, 18-69=-161/715, 17-69=-161/715, 17-70=-161/715, 16-70=-161/715, 31-71=-352/699, 29-71=-352/699, 29-72=-663/2298, 72-73=-663/2298, 27-73=-663/2298, 27-74=-663/2298, 25-74=-663/2298, 25-75=-663/2298, 23-75=-663/2298, 23-76=-271/980, 22-76=-271/980
WEBS 7-36=-1343/413, 10-36=-1373/476, 31-32=-256/680, 6-31=-193/663, 20-22=-543/1354, 11-22=-463/1219, 27-28=-404/0, 29-30=-163/447, 30-31=-840/405, 21-22=-739/162, 28-29=-1760/327, 23-26=-1366/406, 12-19=-496/174, 13-18=-341/133, 14-17=-593/113, 3-35=-256/420, 3-34=-296/320, 14-18=-165/616

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; porch left 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) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.

Job 20100130-B	Truss B5	Truss Type Attic Girder	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 6-7, 10-11, 7-36, 10-36; Wall dead load (5.0psf) on member(s).6-31, 11-22
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 29-31, 27-29, 25-27, 23-25, 22-23
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=1059.
- 13) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 16, 28, 26, 21, 19, 18, and 17. This connection is for uplift only and does not consider lateral forces.
- 14) 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.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 17) Use USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-0 from the left end to 26-0-0 to connect truss(es) J05 (1 ply 2x6 SP) to front face of bottom chord.
- 18) Fill all nail holes where hanger is in contact with lumber.
- 19) Attic room checked for L/360 deflection.
- 20) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-6=-58, 6-7=-68, 7-8=-58, 8-9=-58, 9-10=-58, 10-11=-68, 11-16=-58, 44-48=-19, 22-31=-29, 7-36=-10, 10-36=-10

Drag: 6-31=-10, 11-22=-10

Concentrated Loads (lb)

Vert: 21=-298 (F), 59=-298 (F), 60=-298 (F), 61=-298 (F), 62=-298 (F), 63=-298 (F), 64=-298 (F), 65=-298 (F), 66=-298 (F), 67=-298 (F), 68=-298 (F), 69=-298 (F), 70=-298 (F)

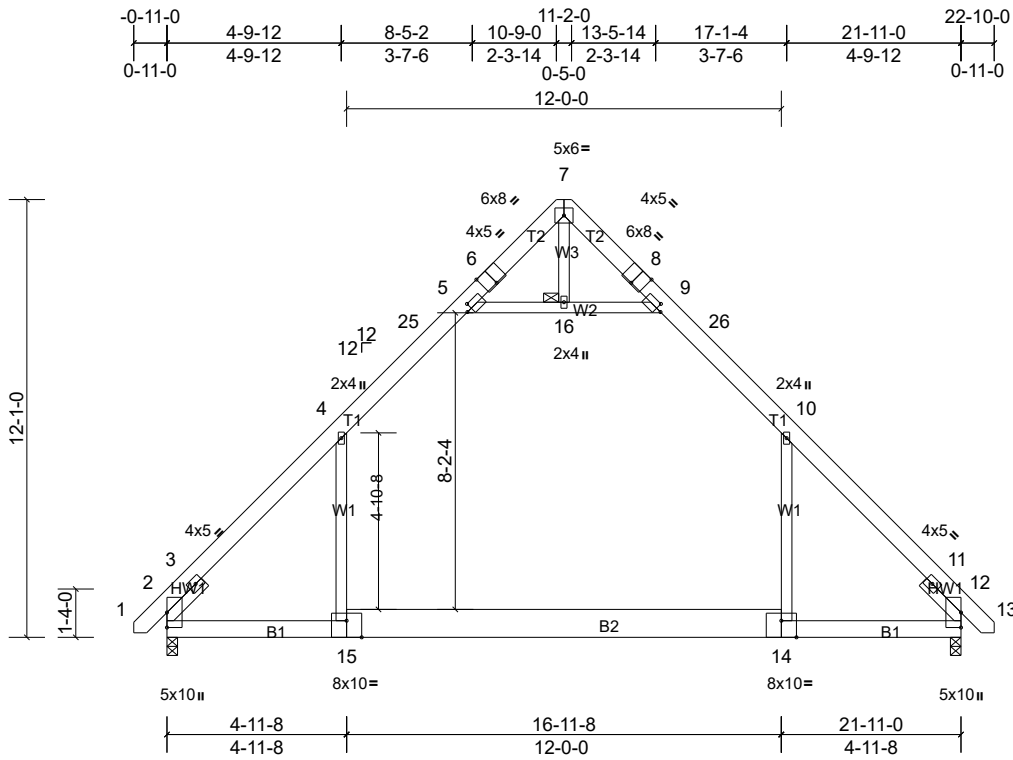
Job 20100130-B	Truss C1	Truss Type Attic	Qty 6	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:63.6

Plate Offsets (X, Y): [5:0-1-13,0-2-0], [6:0-4-0,Edge], [8:0-4-0,Edge], [9:0-1-13,0-2-0], [14:0-5-0,Edge], [15:0-5-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.30	14-15	>878	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.47	14-15	>562	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.05	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.16	14-15	>890	360		
BCDL	10.0											
											Weight: 180 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T1:2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.2 *Except* B2:2x10 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except* W2:2x4 SP No.2
 SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3 -- 1-6-0

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.
 JOINTS 1 Brace at Jt(s): 16

REACTIONS (lb/size) 2=1098/0-3-8, (min. 0-1-10), 12=1098/0-3-8, (min. 0-1-10)
 Max Horiz 2=-272 (LC 10)
 Max Grav 2=1367 (LC 3), 12=1367 (LC 4)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-404/150, 3-4=-1572/10, 4-25=-906/115, 5-25=-778/127, 9-26=-778/127, 10-26=-906/115, 10-11=-1571/10, 11-12=-404/0
 BOT CHORD 2-15=-134/927, 14-15=0/943, 12-14=0/922
 WEBS 10-14=0/805, 4-15=0/805, 5-16=-1152/147, 9-16=-1152/147

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 7-11-8, Exterior(2R) 7-11-8 to 13-9-7, Interior (1) 13-9-7 to 19-7-14, Exterior(2E) 19-7-14 to 22-7-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-16, 9-16; Wall dead load (5.0psf) on member(s).10-14, 4-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 14-15
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

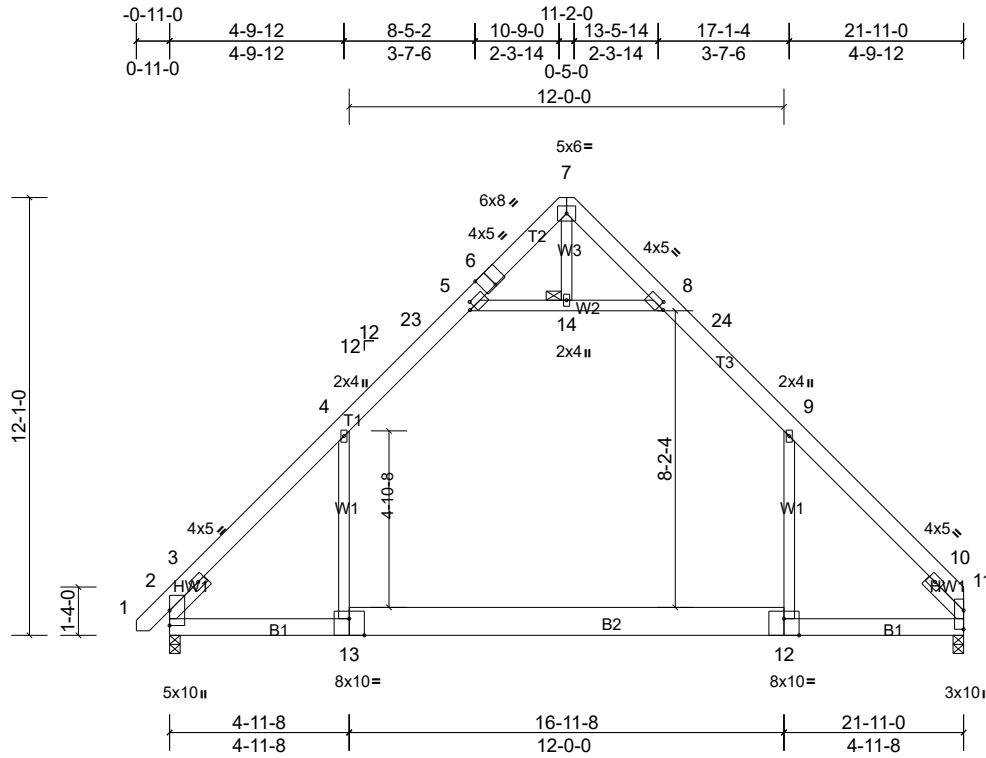
Job 20100130-B	Truss C2	Truss Type Attic	Qty 7	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:63.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.30	12-13	>881	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.47	12-13	>564	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.05	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.16	12-13	>891	360		
BCDL	10.0										Weight: 178 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* T2:2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B2:2x10 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except* W2:2x4 SP No.2
SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3 -- 1-6-0

BRACING
TOP CHORD
BOT CHORD
JOINTS

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
1 Brace at Jt(s): 14

REACTIONS (lb/size) 2=1099/0-3-8, (min. 0-1-10), 11=1053/0-3-8, (min. 0-1-9)
Max Horiz 2=266 (LC 9)
Max Grav 2=1368 (LC 3), 11=1330 (LC 4)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-403/154, 3-4=-1575/9, 4-23=-907/114, 5-23=-779/126, 8-24=-781/127, 9-24=-908/115, 9-10=-1570/9, 10-11=-269/12
BOT CHORD 2-13=-145/921, 12-13=0/937, 11-12=0/916
WEBS 9-12=0/800, 4-13=0/808, 5-14=-1162/176, 8-14=-1162/176

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 7-11-8, Exterior(2R) 7-11-8 to 13-9-7, Interior (1) 13-9-7 to 18-11-0, Exterior(2E) 18-11-0 to 21-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 7) Ceiling dead load (5.0 psf) on member(s). 4-5, 8-9, 5-14, 8-14; Wall dead load (5.0psf) on member(s).9-12, 4-13
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-13
 - 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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

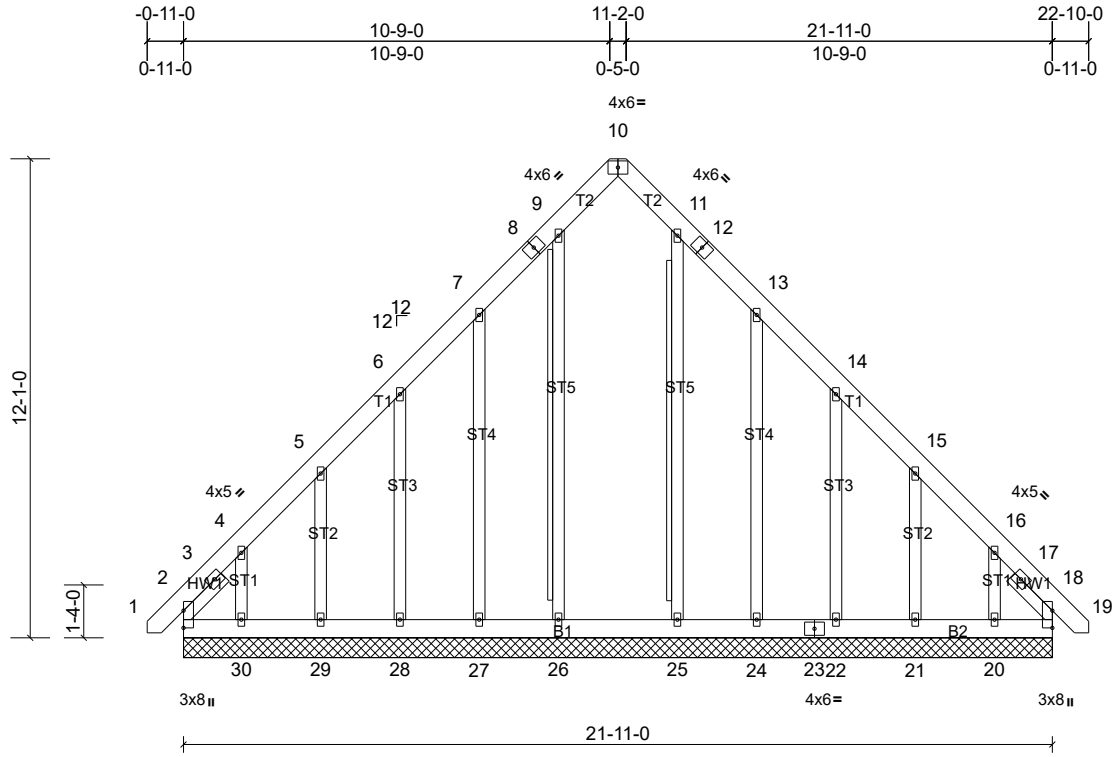
Job 20100130-B	Truss C3	Truss Type Common Supported Gable	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:58.1

Loading	(psf)	Spacing	1-11-4		
TCLL	20.0	Plate Grip DOL	1.00		
(Roof Snow = 20.0)		Lumber DOL	1.00		
TCDL	10.0	Rep Stress Incr	YES		
BCLL	0.0*	Code	IRC2018/TP12014	Matrix-MSH	
BCDL	10.0				

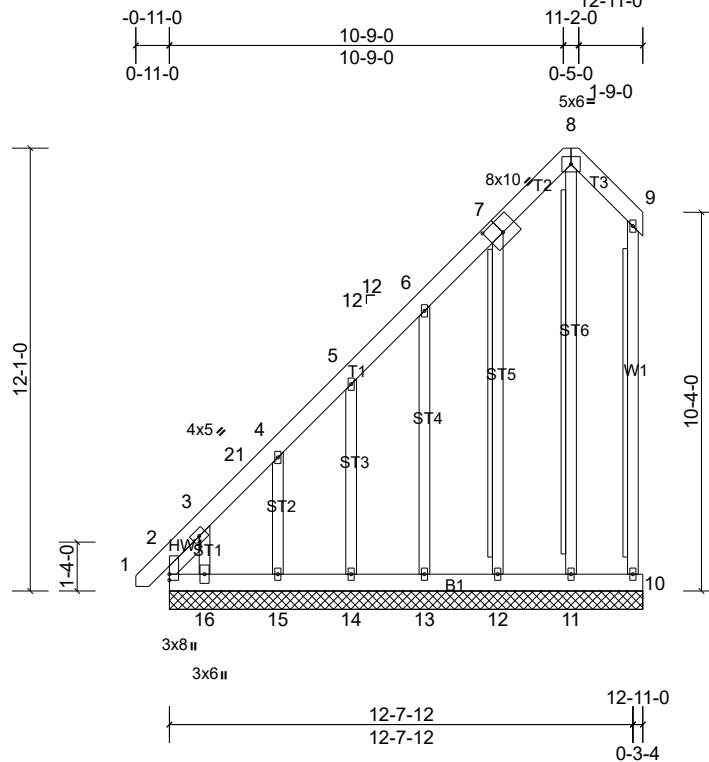
Job 20100130-B	Truss C4	Truss Type Common Supported Gable	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:62.9

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

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 149 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3 *Except* ST6:2x4 SP No.2
SLIDER	Left 2x4 SP No.3 -- 1-3-11

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 9-10, 8-11, 7-12 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS

All bearings	12-11-0.
(lb) - Max Horiz	2=378 (LC 12), 17=378 (LC 12)
Max Uplift	All uplift 100 (lb) or less at joint(s) 10, 12, 13, 14, 15 except 2=-248 (LC 10), 16=-387 (LC 12), 17=-248 (LC 10)
Max Grav	All reactions 250 (lb) or less at joint(s) 10, 11, 12, 13, 14, 15, 16 except 2=631 (LC 12), 17=631 (LC 12)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces	250 (lb) or less except when shown.
TOP CHORD	2-3=-286/158, 3-21=-467/230, 4-21=-453/245, 4-5=-327/179
WEBS	3-16=-224/413

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-14 to 2-3-2, Exterior(2N) 2-3-2 to 7-11-8, Corner(3R) 7-11-8 to 10-11-8, Corner(3E) 10-11-8 to 12-7-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10, 2, 12, 13, 14, 15, and 16. This connection is for uplift only and does not consider lateral forces.
- 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.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

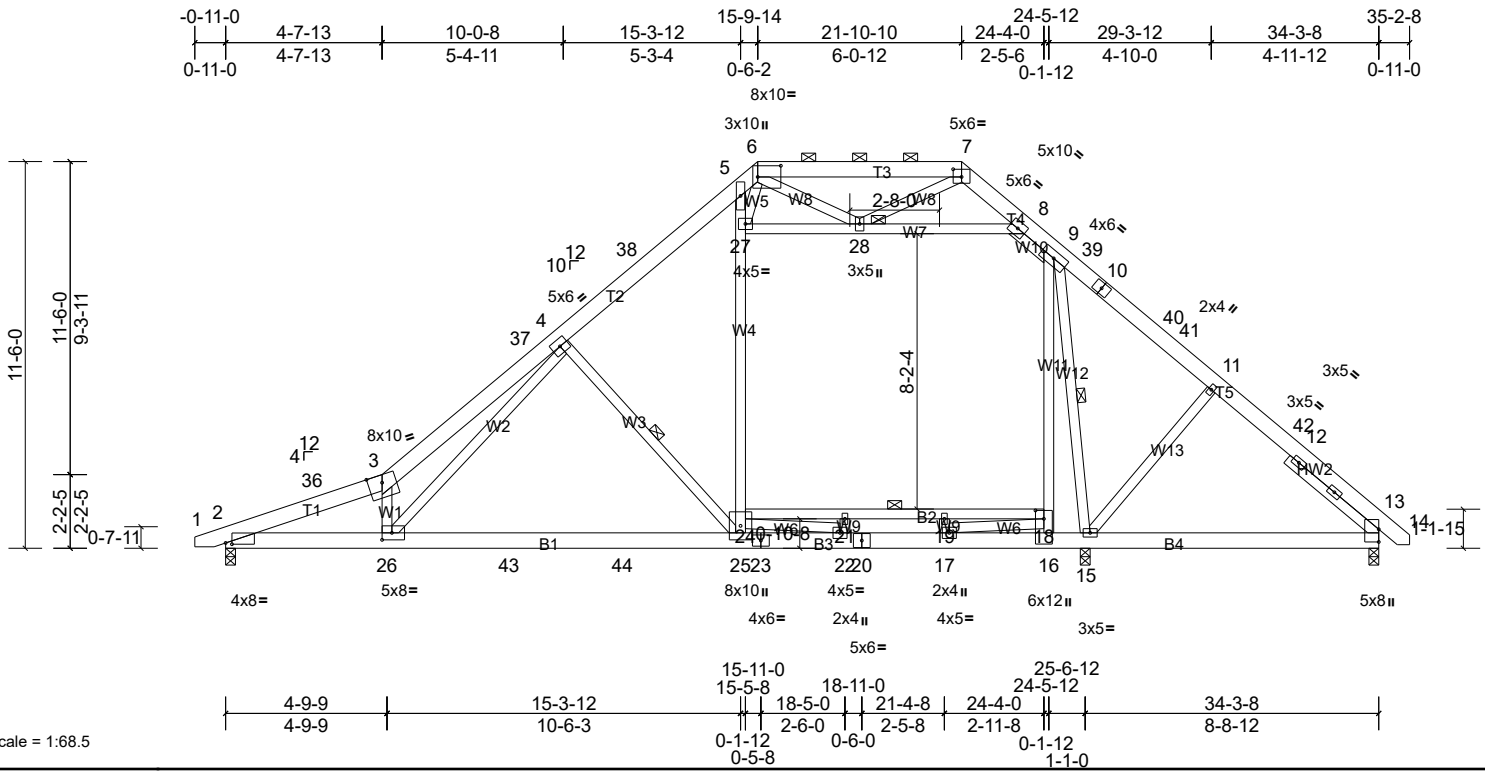
Job 20100130-B	Truss D1	Truss Type Attic	Qty 3	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:68.5

Plate Offsets (X, Y): [2:0-2-4,0-0-7], [6:0-8-4,0-4-0], [7:0-3-0,0-2-12], [16:0-3-0,0-3-0], [26:0-3-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.38	25-26	>810	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.70	25-26	>441	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.09	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TP12014	Matrix-MSH		Attic	0.12	18-24	>887	360		
BCDL	10.0										Weight: 311 lb	FT = 20%

LUMBER	TOP CHORD	2x6 SP No.2	BOT CHORD	2x6 SP No.2 *Except* B2:2x4 SP No.3	WEBS	2x4 SP No.3 *Except* W2,W4,W11,W7:2x4 SP No.2	SLIDER	Right 2x4 SP No.3 -- 3-6-0	REACTIONS (lb/size)	2=1536/0-3-8, (min. 0-2-4), 13=1446/0-3-8, (min. 0-2-3), 15=366/0-3-8, (min. 0-1-8)	Max Horiz	2=265 (LC 11)	Max Uplift	2=-3 (LC 12), 15=-164 (LC 13)	Max Grav	2=1899 (LC 3), 13=1841 (LC 50), 15=799 (LC 52)	BRACING	TOP CHORD	Structural wood sheathing directly applied or 2-8-12 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 4-11-0 oc bracing: 18-24	WEBS	1 Row at midpt	4-25, 9-15	JOINTS	1 Brace at Jt(s): 28
<div style="border: 1px solid black; padding: 5px;"> <p>MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</p> </div>																										

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-36=-4679/105, 3-36=-4625/113, 3-37=-5440/222, 4-37=-5305/245, 4-38=-2456/106, 5-38=-2272/128, 5-6=-2131/312, 6-7=-1011/130, 7-8=-744/172, 8-9=-1786/167, 9-39=-1997/64, 10-39=-2020/54, 10-40=-2103/48, 40-41=-2103/41, 11-41=-2152/31, 11-42=-2236/28, 12-42=-2248/8, 12-13=-925/42
BOT CHORD	2-26=-74/4436, 26-43=0/2533, 43-44=0/2533, 25-44=0/1760, 22-23=0/1760, 20-22=0/2324, 17-20=0/2324, 16-17=0/1438, 15-16=0/1744, 13-15=0/1672, 21-24=-782/3, 19-21=-782/3, 18-19=-782/3
WEBS	3-26=-1983/216, 4-26=-149/2863, 4-25=-1044/248, 24-25=-52/1214, 24-27=0/1579, 5-27=0/708, 16-18=0/901, 9-18=0/1293, 9-15=-914/0, 27-28=-305/44, 8-28=-1683/28, 6-28=-725/24, 7-28=0/870, 21-22=-362/0, 17-19=-430/0, 22-24=0/884, 17-18=0/1169, 6-27=-166/1493

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-7-9 to 2-9-10, Interior (1) 2-9-10 to 12-4-12, Exterior(2R) 12-4-12 to 25-3-12, Interior (1) 25-3-12 to 31-7-2, Exterior(2E) 31-7-2 to 35-0-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Ceiling dead load (5.0 psf) on member(s). 8-9, 27-28, 8-28; Wall dead load (5.0psf) on member(s).24-27, 9-18
 - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-24, 19-21, 18-19
 - 10) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 15. This connection is for uplift only and does not consider lateral forces.

Job 20100130-B	Truss D1	Truss Type Attic	Qty 3	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

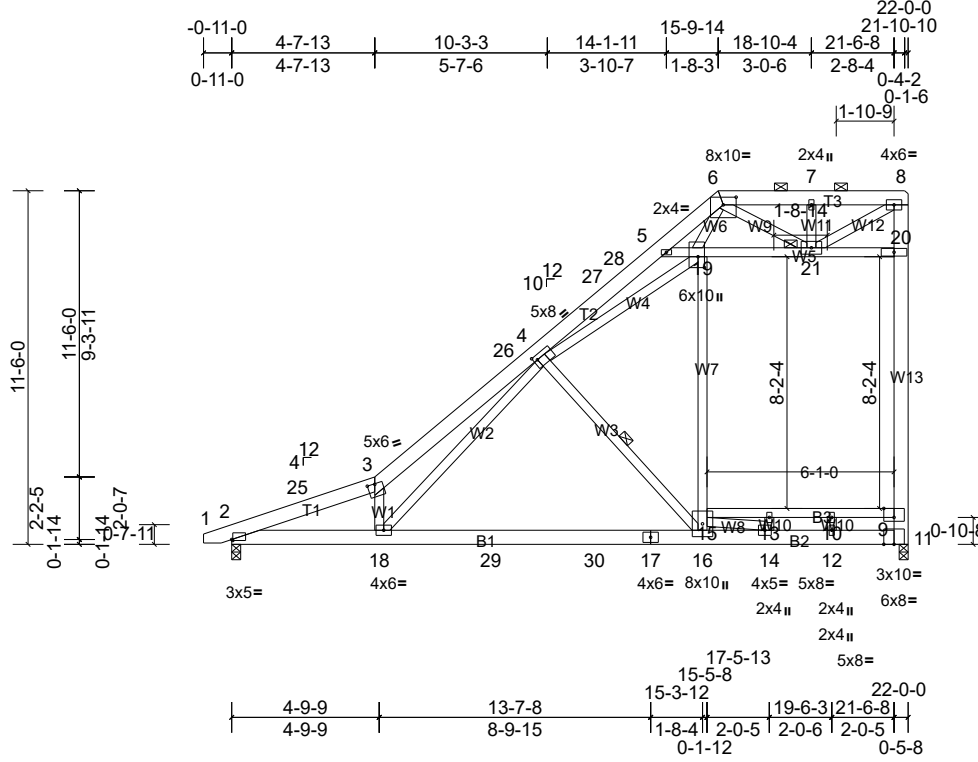
Job 20100130-B	Truss D2	Truss Type Attic	Qty 2	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:74.9

Plate Offsets (X, Y): [2:0-0-7,0-0-6], [3:0-3-0,0-0-4], [4:0-1-8,0-1-12], [6:0-5-0,0-3-0], [9:0-4-0,Edge], [19:0-4-4,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.33	16-18	>798	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.60	16-18	>432	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.02	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.13	9-15	>597	360		
BCDL	10.0											
											Weight: 224 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T2:2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E *Except* B3:2x4 SP No.2, B2:2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W13:2x6 SP No.2, W7,W5,W4,W6:2x4 SP No.2

REACTIONS (lb/size) 2=967/0-3-8, (min. 0-1-8), 11=1103/0-3-8, (min. 0-1-8)
Max Horiz 2=405 (LC 12)
Max Grav 2=1124 (LC 3), 11=1475 (LC 44)

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-16
JOINTS 1 Brace at Jt(s): 21

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

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

TOP CHORD 2-25=-2610/0, 3-25=-2557/0, 3-26=-3010/0, 4-26=-2872/0, 4-27=-4355/591, 27-28=-4207/597, 5-28=-4181/601, 5-6=-4398/569, 6-7=-1127/239, 7-8=-1127/239, 9-11=-1212/184, 9-20=-1023/180, 8-20=-1014/186

BOT CHORD 2-18=-362/2420, 18-29=-372/1163, 29-30=-372/1163, 17-30=-372/1163, 16-17=-372/1163, 12-14=-271/168, 11-12=-271/168, 13-15=-307/452, 10-13=-307/452, 9-10=-307/452

WEBS 3-18=-1128/119, 15-16=-141/1485, 15-19=-28/1567, 4-16=-1486/345, 4-18=-34/1914, 5-19=0/491, 19-21=-518/2229, 20-21=-646/35, 8-21=-295/1781, 14-15=-403/329, 4-19=-802/3470, 7-21=-293/82, 6-21=-1594/177, 6-19=-346/3469

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-7-9 to 2-4-7, Interior (1) 2-4-7 to 12-10-14, Exterior(2R) 12-10-14 to 18-10-4, Interior (1) 18-10-4 to 21-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Ceiling dead load (5.0 psf) on member(s). 5-19, 19-21, 20-21; Wall dead load (5.0psf) on member(s).15-19
 - 9) Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15, 10-13, 9-10
 - 10) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

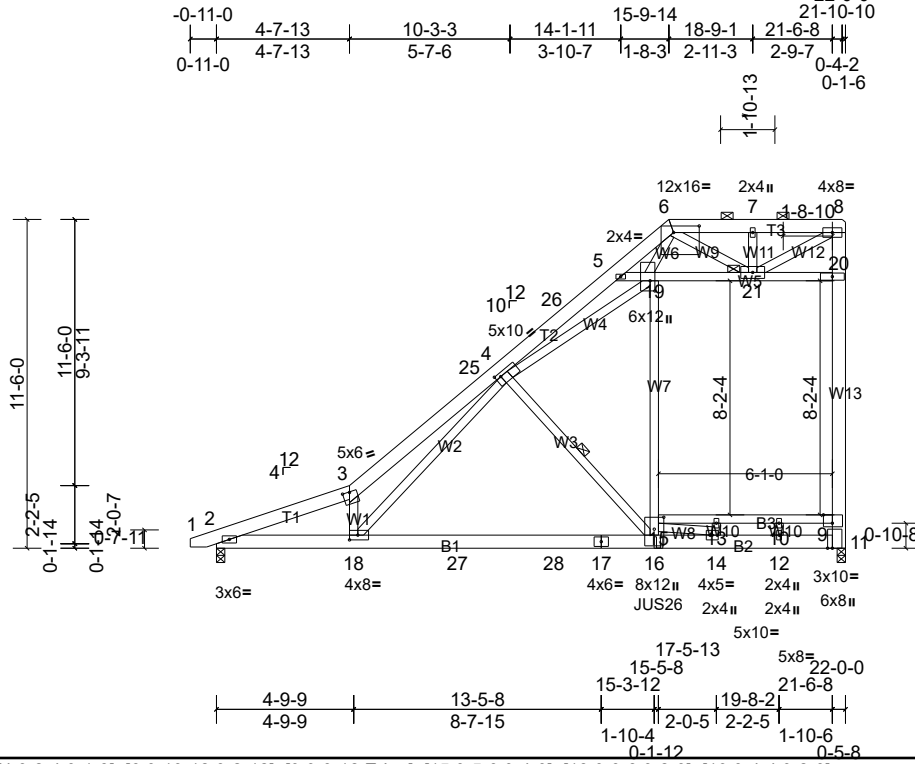
Job 20100130-B	Truss D3	Truss Type Attic Girder	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:80.6

Plate Offsets (X, Y): [3:0-3-0,0-0-4], [4:0-2-4,0-1-8], [6:0-10-12,0-2-12], [9:0-3-12,Edge], [15:0-5-0,0-4-0], [18:0-3-8,0-2-0], [19:0-4-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.37	16-18	>698	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.69	16-18	>378	180		
TCDL	10.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.02	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.15	9-15	>506	360		
BCDL	10.0											
										Weight: 224 lb	FT = 20%	

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T2:2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP No.2 *Except* B3:2x4 SP No.2, B1:2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except* W13:2x6 SP 2400F 2.0E, W7,W5,W4,W6:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 4-16
 JOINTS 1 Brace at Jt(s): 21

REACTIONS

(lb/size) 2=1089/0-3-8, (min. 0-1-8), 11=1393/0-3-8, (min. 0-1-8)
 Max Horiz 2=405 (LC 10)
 Max Uplift 2=-19 (LC 10), 11=-64 (LC 10)
 Max Grav 2=1249 (LC 3), 11=1770 (LC 38)

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

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2948/0, 3-25=-3407/10, 4-25=-3260/32, 4-26=-5164/399, 5-26=-4990/423, 5-6=-5288/375, 6-7=-1289/96, 7-8=-1289/96, 9-11=-1450/89, 9-20=-1242/101, 8-20=-1234/108
 BOT CHORD 2-18=-294/2736, 18-27=-235/1379, 27-28=-235/1379, 17-28=-235/1379, 16-17=-235/1379, 12-14=-528/114, 11-12=-528/114, 13-15=-142/779, 10-13=-142/779, 9-10=-142/779
 WEBS 3-18=-1250/146, 15-16=-196/2076, 15-19=-144/2045, 4-18=-71/2069, 5-19=0/608, 19-21=-213/2583, 20-21=-1028/94, 14-15=-648/135, 4-16=-1653/312, 4-19=-450/4045, 8-21=-189/2243, 7-21=-283/80, 6-21=-1975/169, 6-19=-282/4259

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Ceiling dead load (5.0 psf) on member(s). 5-19, 19-21, 20-21; Wall dead load (5.0psf) on member(s). 15-19
- 9) Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15, 10-13, 9-10
- 10) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 15-5-8 from the left end to connect truss(es) GR1 (1 ply 2x6 SP) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) Attic room checked for L/360 deflection.

Job 20100130-B	Truss D3	Truss Type Attic Girder	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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17) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-6=-60, 6-8=-60, 11-22=-20, 9-15=-20, 5-19=-10, 19-21=-10, 20-21=-10

Drag: 15-19=-10

Concentrated Loads (lb)

Vert: 16=-413 (B)

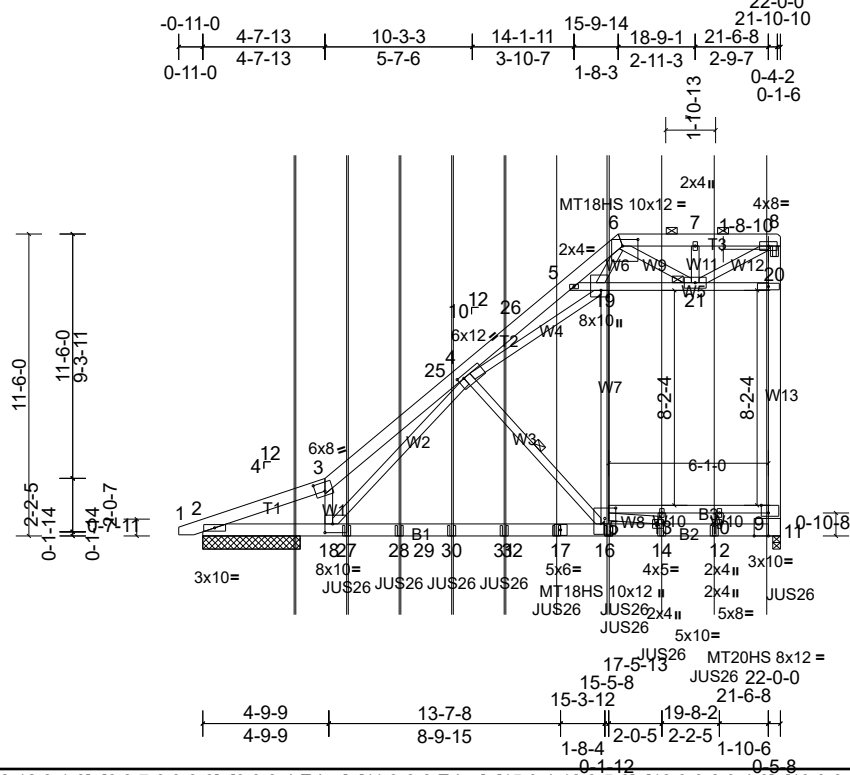
Job 20100130-B	Truss D4	Truss Type Attic Girder	Qty 1	Ply 2	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:87.8

Plate Offsets (X, Y): [3:0-4-5,0-4-0], [4:0-2-12,0-1-8], [6:0-7-0,0-3-0], [9:0-3-4,Edge], [11:0-6-8,Edge], [15:0-4-12,0-5-0], [18:0-3-8,0-4-0], [19:0-3-0,0-3-4]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.65	16-18	>403	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.91	Vert(CT)	-1.06	16-18	>246	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.02	11	n/a	n/a	MT20HS	187/143
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.20	9-15	>384	360		
BCDL	10.0											
											Weight: 447 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T2:2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP 2400F 2.0E *Except* B3:2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* W13:2x6 SP 2400F 2.0E, W7,W5,W4,W6:2x4 SP No.1, W2,W12,W9:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 4-16
 JOINTS 1 Brace at Jt(s): 21

REACTIONS (lb/size) 2=2807/3-8-8, (min. 0-1-8), 11=4244/0-3-8, (min. 0-1-8)
 Max Horiz 2=393 (LC 10)
 Max Uplift 2=-740 (LC 10), 11=-1246 (LC 10)
 Max Grav 2=2913 (LC 24), 11=4686 (LC 40)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-8556/2252, 3-25=-9845/2682, 4-25=-9698/2686, 4-26=-13158/3600, 5-26=-12989/3612, 5-6=-14071/3890, 6-7=-3194/868, 7-8=-3194/868, 9-11=-3380/887, 9-20=-2997/819, 8-20=-3002/831
 BOT CHORD 2-18=-2443/8039, 18-27=-1054/3409, 27-28=-1054/3409, 28-29=-1054/3409, 29-30=-1054/3409, 30-31=-1054/3409, 31-32=-1054/3409, 17-32=-1054/3409, 16-17=-1054/3409, 12-14=-1721/610, 11-12=-1721/610, 13-15=-827/2472, 10-13=-827/2472, 9-10=-827/2472
 WEBS 3-18=-3080/912, 15-16=-1968/6505, 15-19=-1724/5977, 4-18=-2032/6813, 5-19=-446/1772, 19-21=-1914/6835, 20-21=-2607/740, 14-15=-1914/658, 4-16=-4055/1279, 4-19=-2979/10422, 7-21=-264/85, 8-21=-1614/5781, 6-21=-5247/1487, 6-19=-3227/11621

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 16 = 12%
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s) 5-19, 19-21, 20-21; Wall dead load (5.0psf) on member(s) 15-19

Job 20100130-B	Truss D4	Truss Type Attic Girder	Qty 1	Ply 2	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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- 13) Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15, 10-13, 9-10
- 14) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 15) One RT8A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 16) One LUGT2 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 17) 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.
- 18) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 19) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 15-5-8 from the left end to connect truss(es) GR1 (1 ply 2x6 SP) to front face of bottom chord.
- 20) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-3-8 oc max. starting at 5-5-12 from the left end to 21-9-4 to connect truss(es) J09 (1 ply 2x6 SP) to back face of bottom chord.
- 21) Fill all nail holes where hanger is in contact with lumber.
- 22) Minimum of a double stud required directly beneath this truss to attach LUGT2 tiedown.
- 23) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-58, 3-6=-58, 6-8=-58, 11-22=-19, 9-15=-19, 5-19=-10, 19-21=-10, 20-21=-10
Drag: 15-19=-10
Concentrated Loads (lb)
Vert: 17=-510 (B), 16=-959 (F=-449, B=-510), 14=-510 (B), 12=-510 (B), 11=-517 (B), 27=-510 (B), 28=-510 (B), 30=-510 (B), 31=-510 (B)

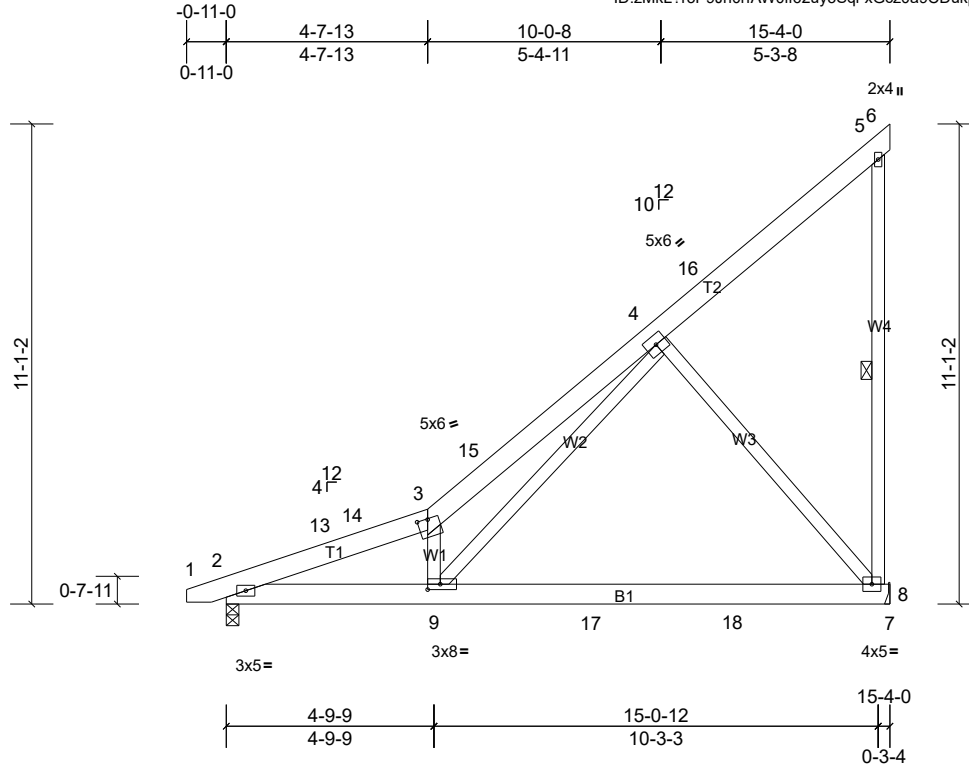
Job 20100130-B	Truss D5	Truss Type Jack-Closed	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:53.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.17	8-9	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.30	8-9	>609	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 122 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-5-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-8

REACTIONS (lb/size) 2=641/0-3-8, (min. 0-1-8), 8=624/ Mechanical, (min. 0-1-8)
 Max Horiz 2=300 (LC 12)
 Max Uplift 8=120 (LC 12)
 Max Grav 2=694 (LC 3), 8=784 (LC 27)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-13=-1487/0, 13-14=-1452/0, 3-14=-1440/0, 3-15=-1721/0, 4-15=-1687/0
 BOT CHORD 2-9=-219/1366, 9-17=-187/401, 17-18=-187/401, 8-18=-187/401
 WEBS 3-9=-746/93, 4-8=-598/284, 4-9=0/1469

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-7-9 to 2-4-7, Interior (1) 2-4-7 to 11-1-1, Exterior(2R) 11-1-1 to 15-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 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 120 lb uplift at joint 8.
- 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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

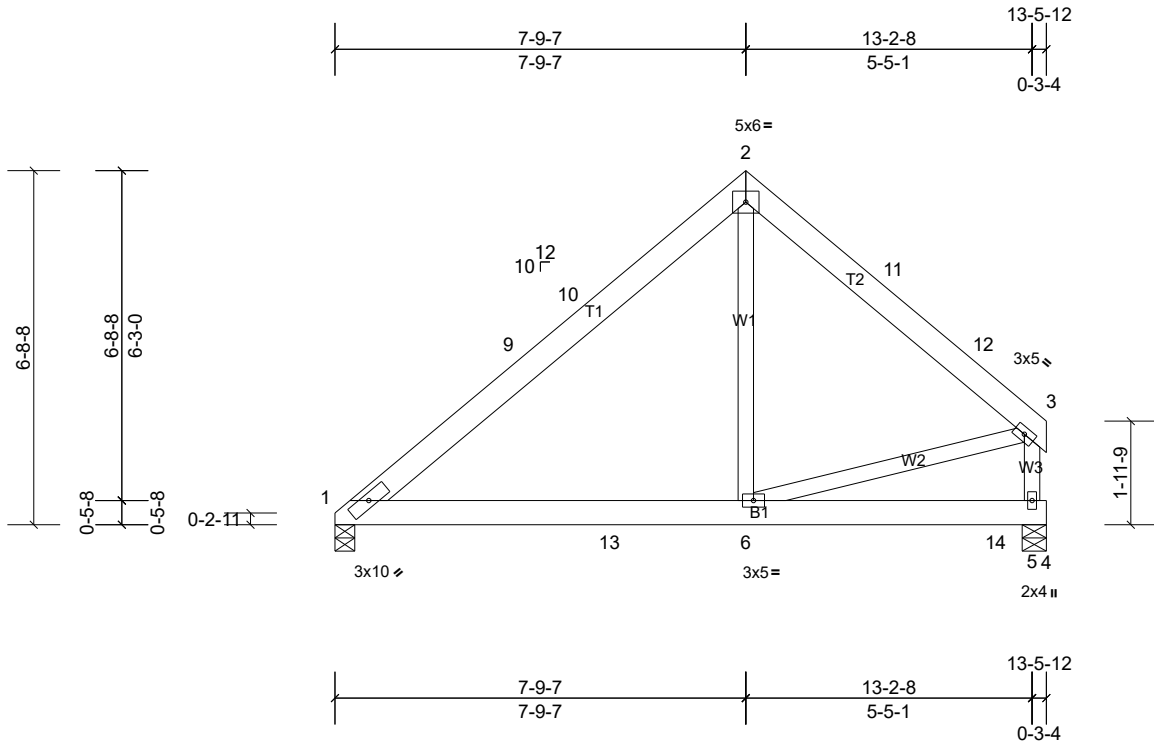
Job 20100130-B	Truss E1	Truss Type Common	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:43.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.10	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 91 lb	FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

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

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

REACTIONS (lb/size) 1=521/0-4-8, (min. 0-1-8), 5=526/0-5-8, (min. 0-1-8)
 Max Horiz 1=144 (LC 9)
 Max Uplift 1=-38 (LC 12), 5=-38 (LC 12)
 Max Grav 1=631 (LC 3), 5=626 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-9=-629/91, 9-10=-512/97, 2-10=-488/123, 2-11=-452/133, 11-12=-522/109, 3-12=-566/101
 BOT CHORD 1-13=-89/446, 6-13=-27/413
 WEBS 2-6=0/293, 3-6=-28/432, 3-5=-575/129

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-4 to 3-2-4, Interior (1) 3-2-4 to 4-9-7, Exterior(2R) 4-9-7 to 10-2-8, Exterior(2E) 10-2-8 to 13-2-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
 - 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.

LOAD CASE(S) Standard

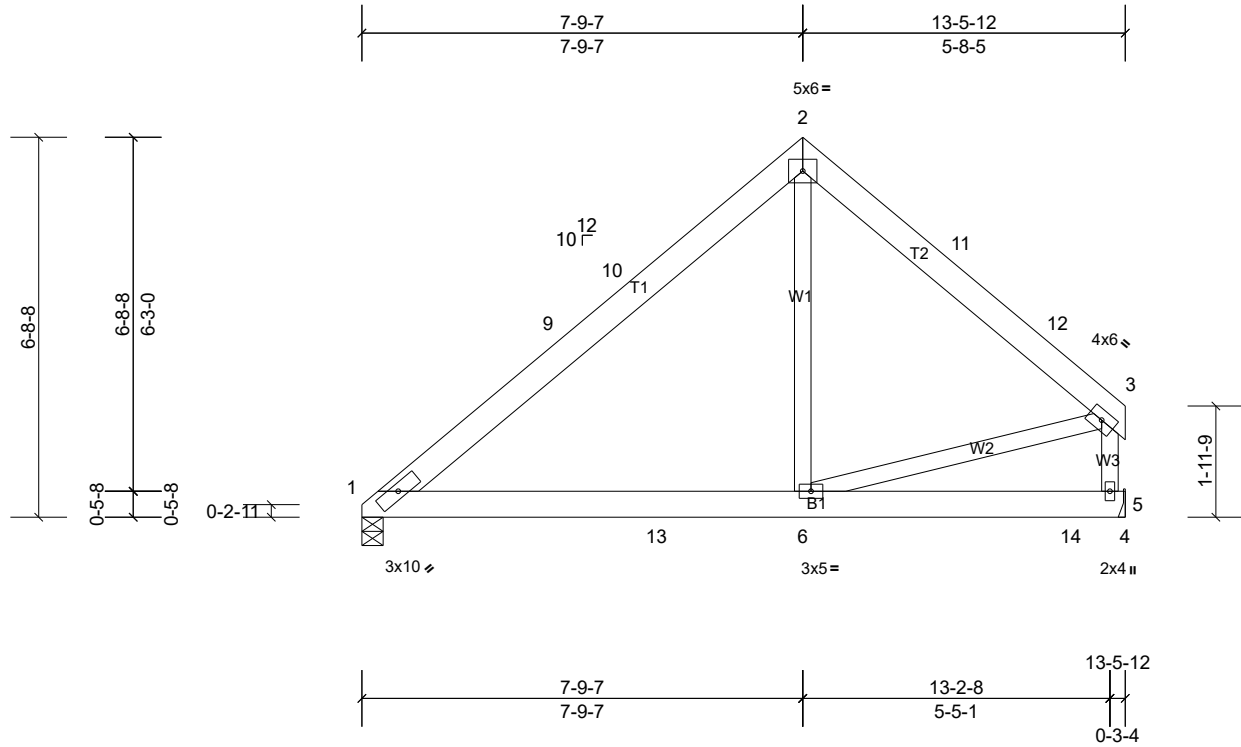
Job 20100130-B	Truss E2	Truss Type Common	Qty 6	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:40.7

Loading	(psf)	Spacing	2-0-0	CSI	0.47	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.10	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 91 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING

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

REACTIONS (lb/size) 1=521/0-4-8, (min. 0-1-8), 5=526/ Mechanical, (min. 0-1-8)
 Max Horiz 1=144 (LC 9)
 Max Uplift 1=-38 (LC 12), 5=-38 (LC 12)
 Max Grav 1=631 (LC 3), 5=626 (LC 4)

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

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-9=-628/91, 9-10=-512/98, 2-10=-488/123, 2-11=-453/137, 11-12=-520/115, 3-12=-585/106, 3-5=-569/130
 BOT CHORD 1-13=-89/445, 6-13=-27/413
 WEBS 2-6=0/295, 3-6=-30/413

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-4 to 3-2-4, Interior (1) 3-2-4 to 4-9-7, Exterior(2R) 4-9-7 to 10-2-8, Exterior(2E) 10-2-8 to 13-2-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 5.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- 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.

LOAD CASE(S) Standard

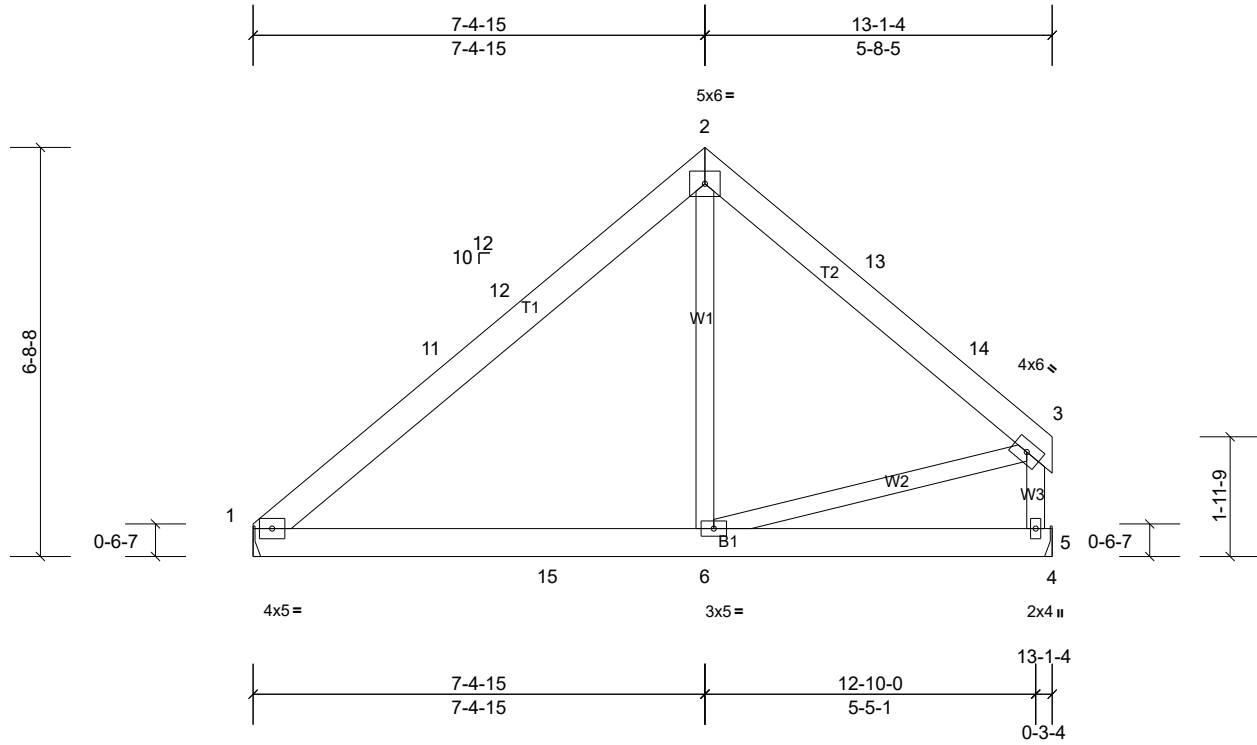
Job 20100130-B	Truss E3	Truss Type Common	Qty 6	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:37.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.05	6-8	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.08	6-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 90 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
 Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS (lb/size) 1=512/ Mechanical, (min. 0-1-8), 5=516/ Mechanical, (min. 0-1-8)

Max Horiz 1=140 (LC 9)
 Max Uplift 1=-36 (LC 12), 5=-36 (LC 12)
 Max Grav 1=624 (LC 3), 5=631 (LC 4)

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

FORCES

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

TOP CHORD 1-11=-619/92, 11-12=-491/99, 2-12=-473/124, 2-13=-434/138, 13-14=-498/115, 3-14=-566/106, 3-5=-555/132
 BOT CHORD 1-15=-74/396, 6-15=-24/396
 WEBS 2-6=0/285, 3-6=-26/391

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-4-15, Exterior(2R) 4-4-15 to 9-10-0, Exterior(2E) 9-10-0 to 12-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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'-06"-00 tall by 2'-00"-00 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 36 lb uplift at joint 1 and 36 lb uplift at joint 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

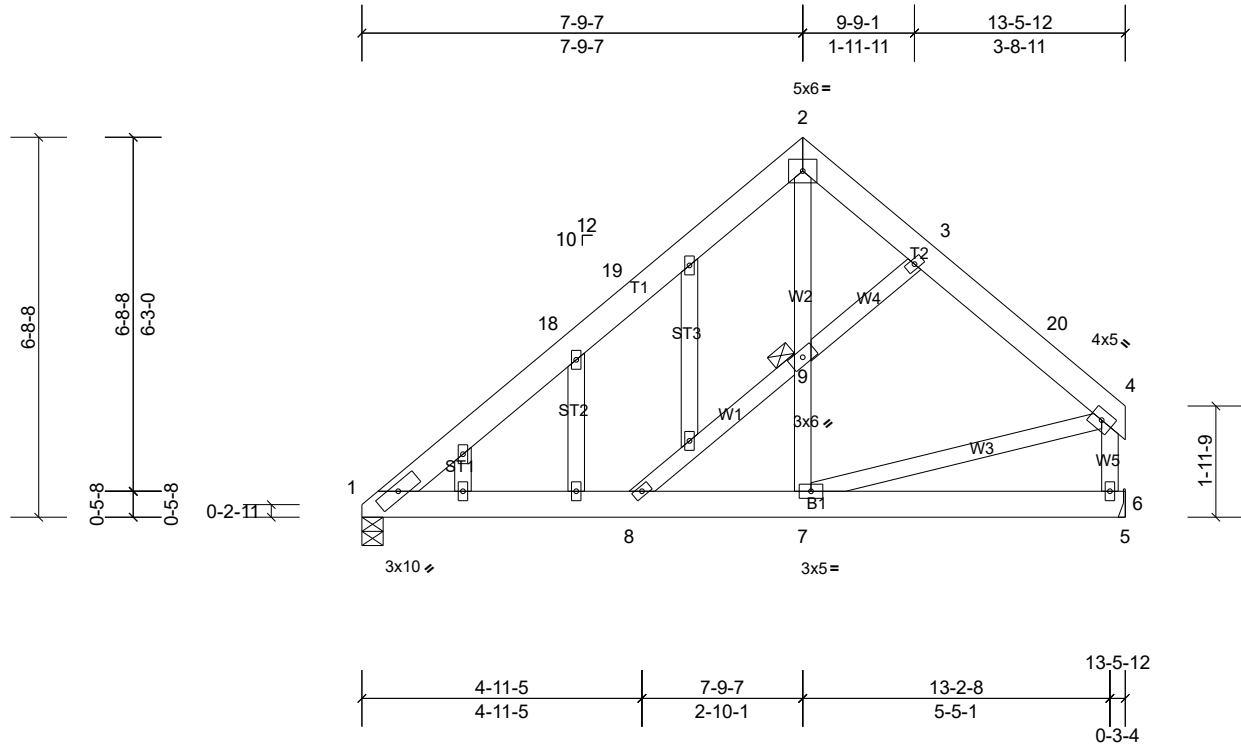
Job 20100130-B	Truss E5	Truss Type Common Structural Gable	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:40.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	0.04	8-16	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.07	8-16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 110 lb	FT = 20%

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

BRACING
 TOP CHORD Structural wood sheathing directly applied 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): 9

REACTIONS (lb/size) 1=521/0-4-8, (min. 0-1-8), 6=526/ Mechanical, (min. 0-1-8)
 Max Horiz 1=144 (LC 9)
 Max Uplift 1=-38 (LC 12), 6=-38 (LC 12)
 Max Grav 1=598 (LC 18), 6=605 (LC 19)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-18=-687/85, 18-19=-532/91, 2-19=-508/117, 2-3=-422/140, 3-20=-472/127, 4-20=-581/114, 4-6=-569/131
 BOT CHORD 1-8=-93/408, 7-8=-25/343
 WEBS 4-7=-25/329

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-4 to 3-2-4, Interior (1) 3-2-4 to 4-9-7, Exterior(2R) 4-9-7 to 9-11-4, Exterior(2E) 9-11-4 to 13-2-8 zone;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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 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'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 6.
 - 11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

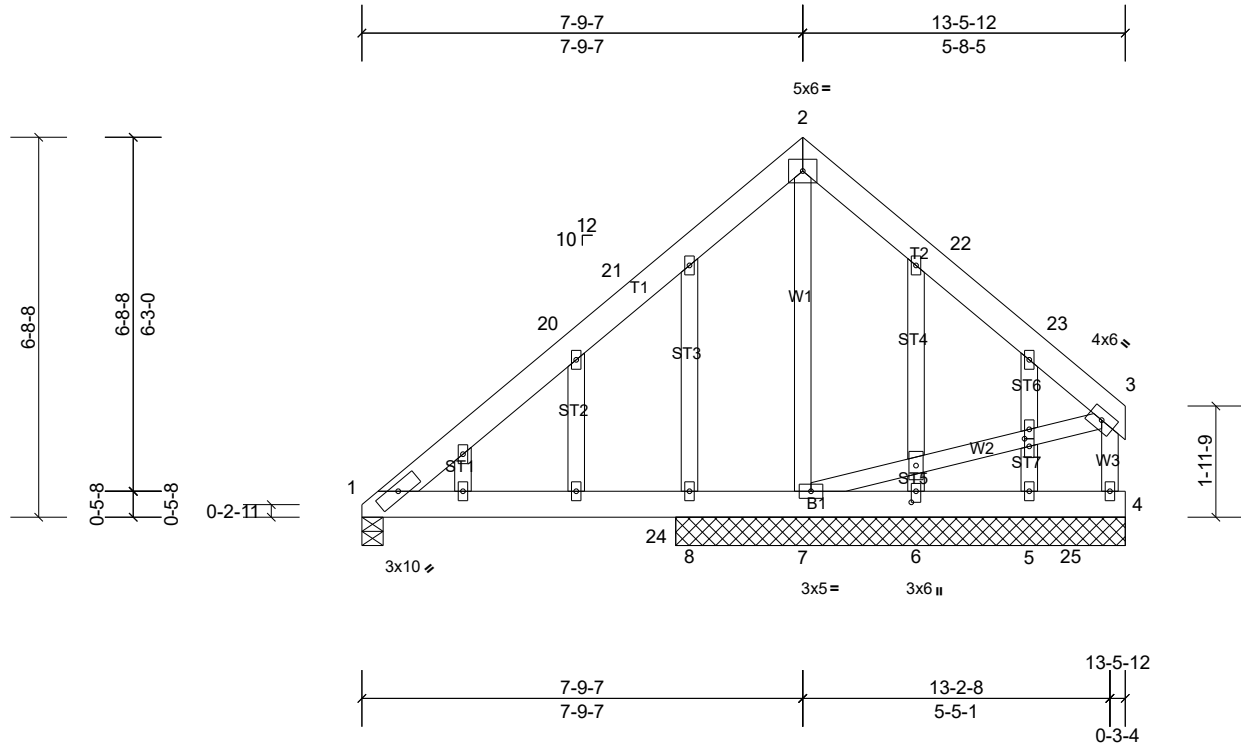
Job 20100130-B	Truss E6	Truss Type Common Structural Gable	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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ID:16DhBF_yvxBUN6hL2BRMa0y3WIK-PSALEwAqzCsgByeloRLRs?fJC3dNyuokXBEAl_y3R9S



Scale = 1:40.7

Plate Offsets (X, Y): [6:0-2-5,0-1-0], [17:0-1-10,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.03	8-18	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.04	8-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 111 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS All bearings 7-11-4. except 1=0-4-8
(lb) - Max Horiz 1=169 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 4, 7, 8
Max Grav All reactions 250 (lb) or less at joint(s) 5, 6 except 1=287 (LC 18), 4=315 (LC 19), 7=251 (LC 19), 8=401 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-285/76
WEBS 2-7=-373/99

- NOTES**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-4 to 3-2-4, Interior (1) 3-2-4 to 4-9-7, Exterior(2R) 4-9-7 to 10-2-8, Exterior(2E) 10-2-8 to 13-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at j(s) 1, 4, 7, and 8. This connection is for uplift only and does not consider lateral forces.
 - 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.

LOAD CASE(S) Standard

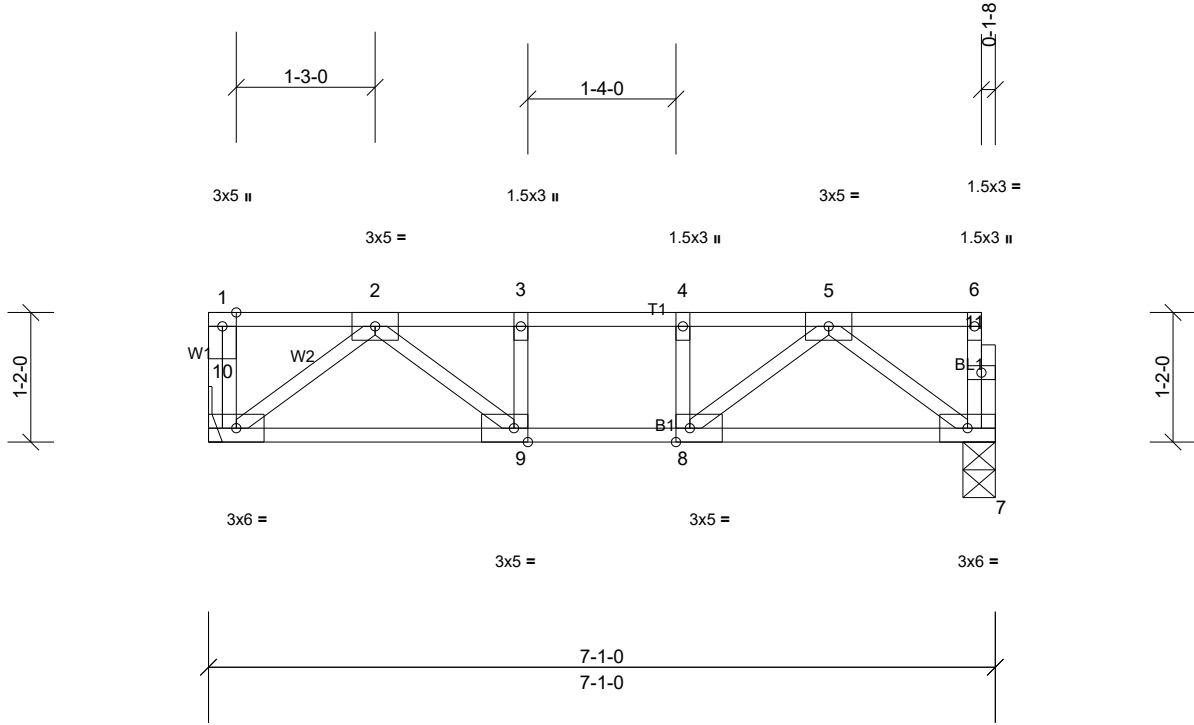
Job 20100130-B	Truss F01	Truss Type Floor	Qty 2	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:20.7

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.02	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.02	7-8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 38 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING

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

REACTIONS (lb/size) 7=295/0-3-8, (min. 0-1-8), 10=300/ Mechanical, (min. 0-1-8)

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

TOP CHORD 2-3=-483/0, 3-4=-483/0, 4-5=-483/0
 BOT CHORD 9-10=0/324, 8-9=0/483, 7-8=0/323
 WEBS 5-7=-402/0, 2-10=-407/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

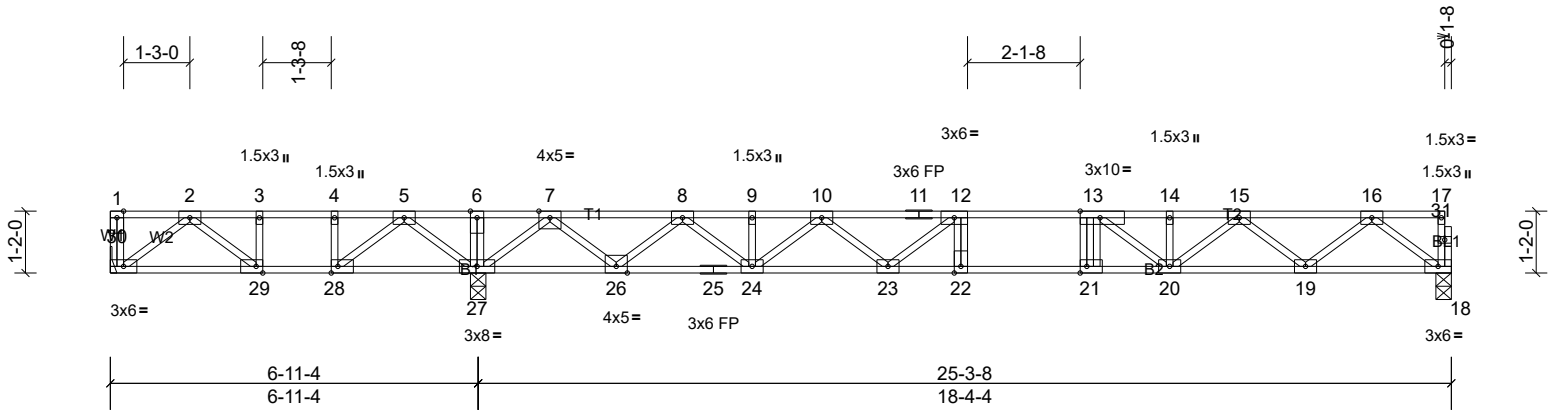
Job 20100130-B	Truss F02	Truss Type Floor	Qty 2	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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ID:9lgEy3KeRk?X7laPQ0gl1y3VXI-PSALEwAqzCsgByeloRLRs?fa83VRyqnkXBEAl_y3R9S



Scale = 1:43.5

Plate Offsets (X, Y): [13:0-4-8,Edge], [21:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.23	22	>971	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.31	22	>715	240	
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.04	18	n/a	n/a	
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 132 lb FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) 18=693/0-3-8, (min. 0-1-8), 27=1486/0-3-8, (min. 0-1-8),
30=18/ Mechanical, (min. 0-1-8)
Max Uplift 30=-190 (LC 4)
Max Grav 18=698 (LC 7), 27=1486 (LC 1), 30=214 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-203/747, 3-4=-203/747, 4-5=-203/747, 5-6=0/1850, 6-7=0/1850, 8-9=-1605/0, 9-10=-1605/0, 10-11=-2397/0,
11-12=-2397/0, 12-13=-2660/0, 13-14=-2353/0, 14-15=-2353/0, 15-16=-1452/0
BOT CHORD 29-30=-279/209, 28-29=-747/203, 27-28=-1325/0, 26-27=-727/0, 25-26=0/1008, 24-25=0/1008, 23-24=0/2125,
22-23=0/2660, 21-22=0/2660, 20-21=0/2658, 19-20=0/2002, 18-19=0/873
WEBS 5-27=-845/0, 2-30=-262/351, 5-28=0/897, 2-29=-597/0, 3-29=-16/265, 4-28=-408/0, 7-27=-1409/0, 16-18=-1093/0,
7-26=0/1084, 16-19=0/754, 8-26=-1041/0, 15-19=-715/0, 8-24=0/776, 15-20=0/449, 10-24=-673/0, 10-23=0/414,
12-23=-509/0, 13-20=-575/0

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x5 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 30.
 - 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) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

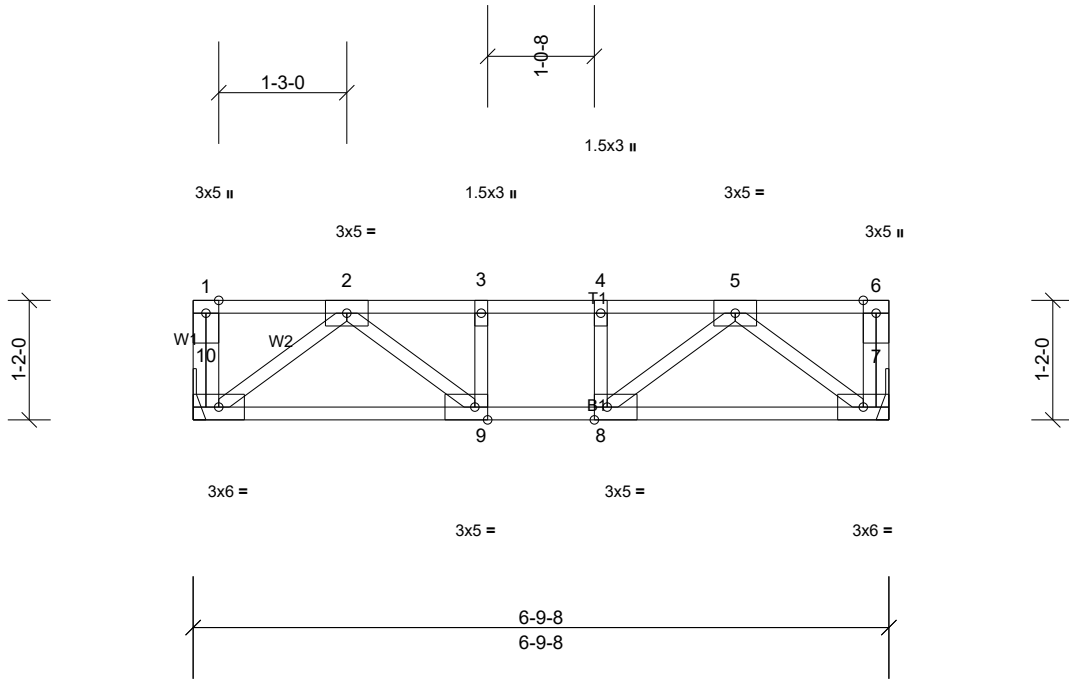
Job 20100130-B	Truss F03	Truss Type Floor	Qty 6	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:22.5

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.01	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.02	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 38 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING

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

REACTIONS (lb/size) 7=288/ Mechanical, (min. 0-1-8), 10=288/ Mechanical, (min. 0-1-8)

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

TOP CHORD 2-3=-447/0, 3-4=-447/0, 4-5=-447/0
 BOT CHORD 9-10=0/308, 8-9=0/447, 7-8=0/308
 WEBS 5-7=-387/0, 2-10=-387/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

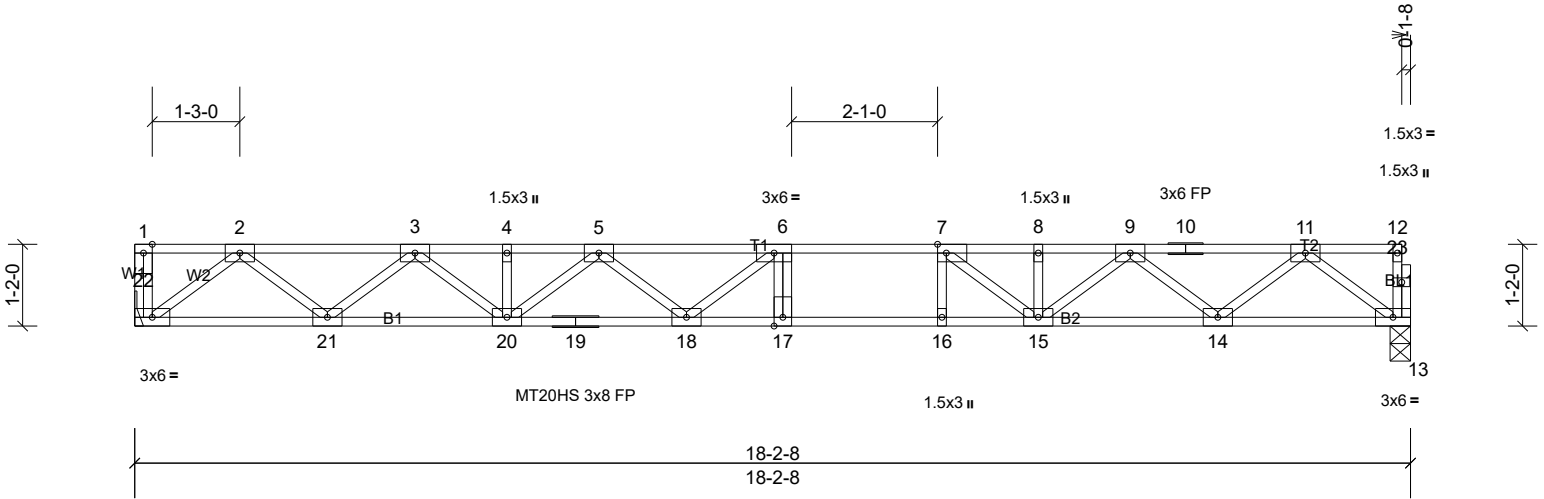
Job 20100130-B	Truss F04	Truss Type Floor	Qty 4	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:32.9

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.30	17-18	>721	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.41	17-18	>525	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 94 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* B2:2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING

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

REACTIONS (lb/size) 13=785/0-3-8, (min. 0-1-8), 22=790/ Mechanical, (min. 0-1-8)

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

TOP CHORD 2-3=-1670/0, 3-4=-2779/0, 4-5=-2779/0, 5-6=-3298/0, 6-7=-3304/0, 7-8=-2756/0, 8-9=-2756/0, 9-10=-1674/0, 10-11=-1674/0
 BOT CHORD 21-22=0/987, 20-21=0/2324, 19-20=0/3181, 18-19=0/3181, 17-18=0/3304, 16-17=0/3304, 15-16=0/3304, 14-15=0/2320, 13-14=0/988
 WEBS 11-13=-1237/0, 2-22=-1239/0, 11-14=0/893, 2-21=0/889, 9-14=-842/0, 3-21=-851/0, 9-15=0/557, 3-20=0/581, 5-20=-514/0, 5-18=0/295, 6-18=-333/224, 7-15=-875/0, 7-16=-33/260

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

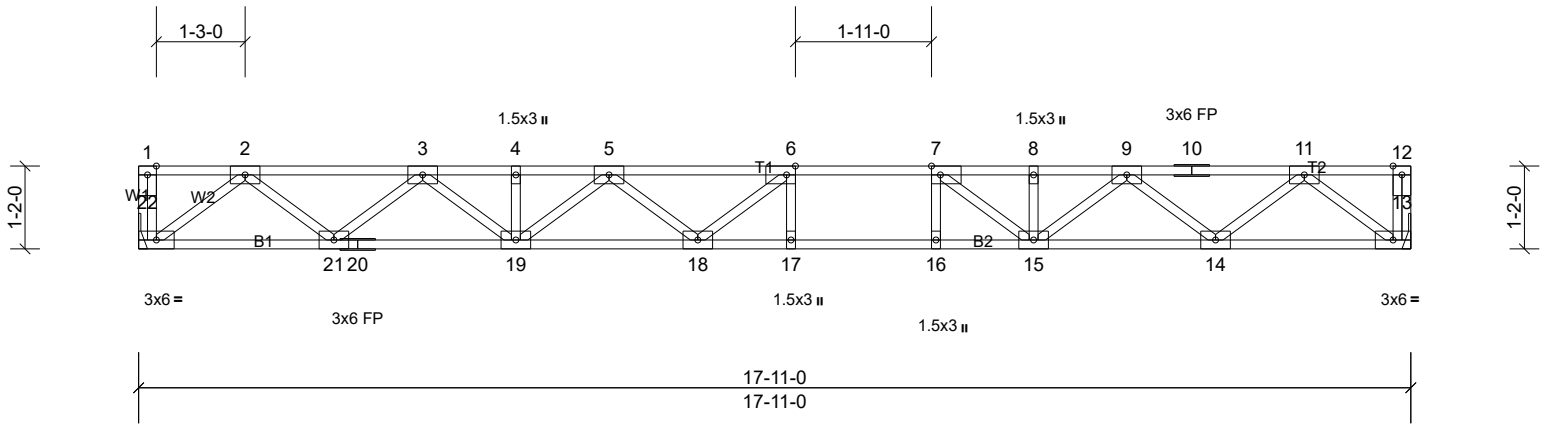
Job 20100130-B	Truss F05	Truss Type Floor	Qty 3	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:32.4

Plate Offsets (X, Y): [6:0-1-8,Edge], [7:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.26	17-18	>801	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.36	17-18	>583	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 92 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* B2:2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 13=777/ Mechanical, (min. 0-1-8), 22=777/ Mechanical, (min. 0-1-8)

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

TOP CHORD 2-3=-1638/0, 3-4=-2713/0, 4-5=-2713/0, 5-6=-3204/0, 6-7=-3202/0, 7-8=-2698/0, 8-9=-2698/0, 9-10=-1641/0, 10-11=-1641/0
 BOT CHORD 21-22=0/970, 20-21=0/2277, 19-20=0/2277, 18-19=0/3098, 17-18=0/3202, 16-17=0/3202, 15-16=0/3202, 14-15=0/2273, 13-14=0/971
 WEBS 11-13=-1219/0, 2-22=-1217/0, 11-14=0/872, 2-21=0/870, 9-14=-822/0, 3-21=-831/0, 9-15=0/542, 3-19=0/557, 5-19=-492/0, 5-18=0/280, 6-18=-307/225, 7-15=-811/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

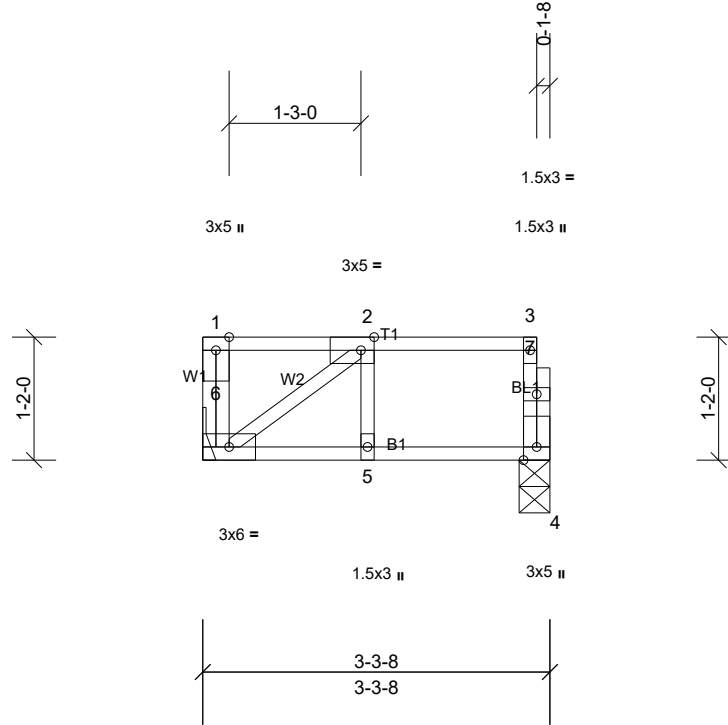
Job 20100130-B	Truss F06	Truss Type Floor	Qty 7	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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ID:J7SP2PW5W?eZDw1LbndWL8y3VTI-HfkkRGASKV_Xp6DVL9sgODCWvT_zhPtumr_kHQy3R9R



Scale = 1:21.8

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.04	5	>893	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.35	Vert(CT)	-0.06	4-5	>647	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 18 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=129/0-3-8, (min. 0-1-8), 6=134/ Mechanical, (min. 0-1-8)

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

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

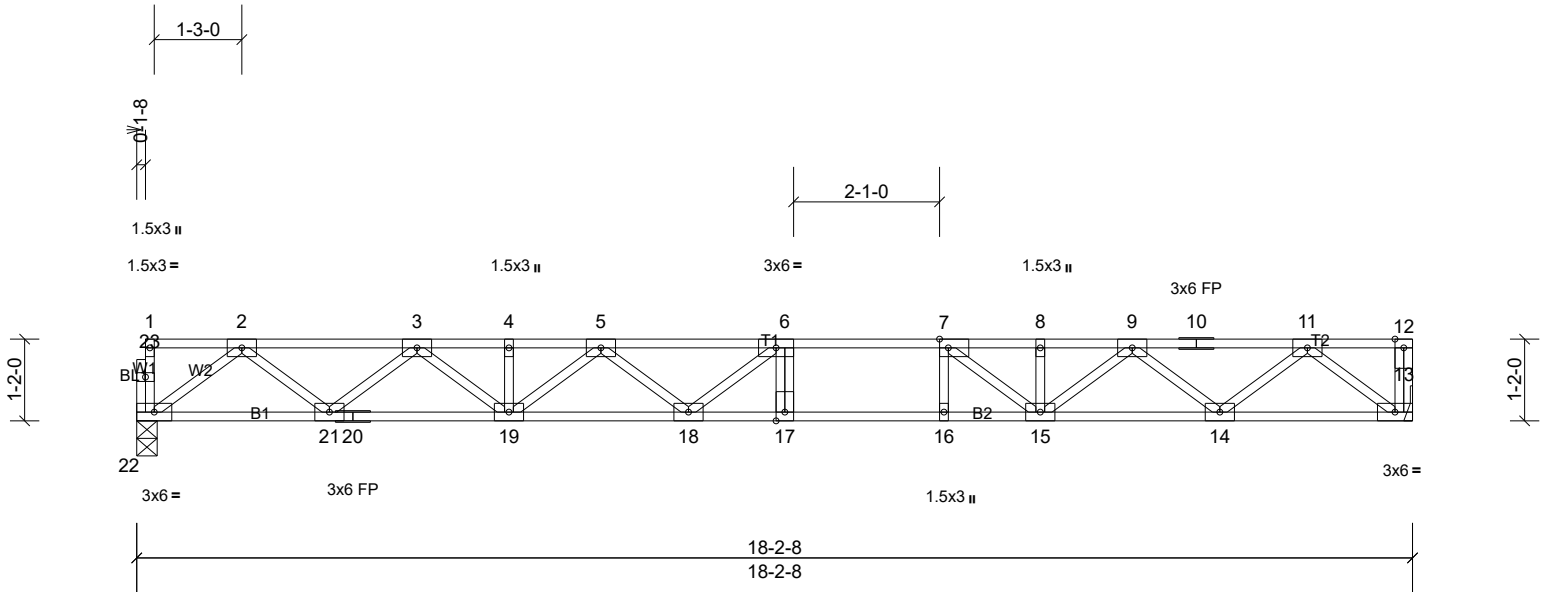
Job 20100130-B	Truss F07	Truss Type Floor	Qty 5	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:32.9

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.29	17-18	>739	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.40	17-18	>538	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 94 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* B2:2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 13=790/ Mechanical, (min. 0-1-8), 22=785/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-1670/0, 3-4=-2775/0, 4-5=-2775/0, 5-6=-3300/0, 6-7=-3304/0, 7-8=-2757/0, 8-9=-2757/0, 9-10=-1674/0, 10-11=-1674/0
 BOT CHORD 21-22=0/986, 20-21=0/2324, 19-20=0/2324, 18-19=0/3181, 17-18=0/3304, 16-17=0/3304, 15-16=0/3304, 14-15=0/2320, 13-14=0/988
 WEBS 11-13=-1240/0, 2-22=-1235/0, 11-14=0/892, 2-21=0/891, 9-14=-841/0, 3-21=-851/0, 9-15=0/557, 3-19=0/575, 5-19=-519/0, 5-18=0/295, 6-18=-332/226, 7-15=-874/0, 7-16=-34/260

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x5 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

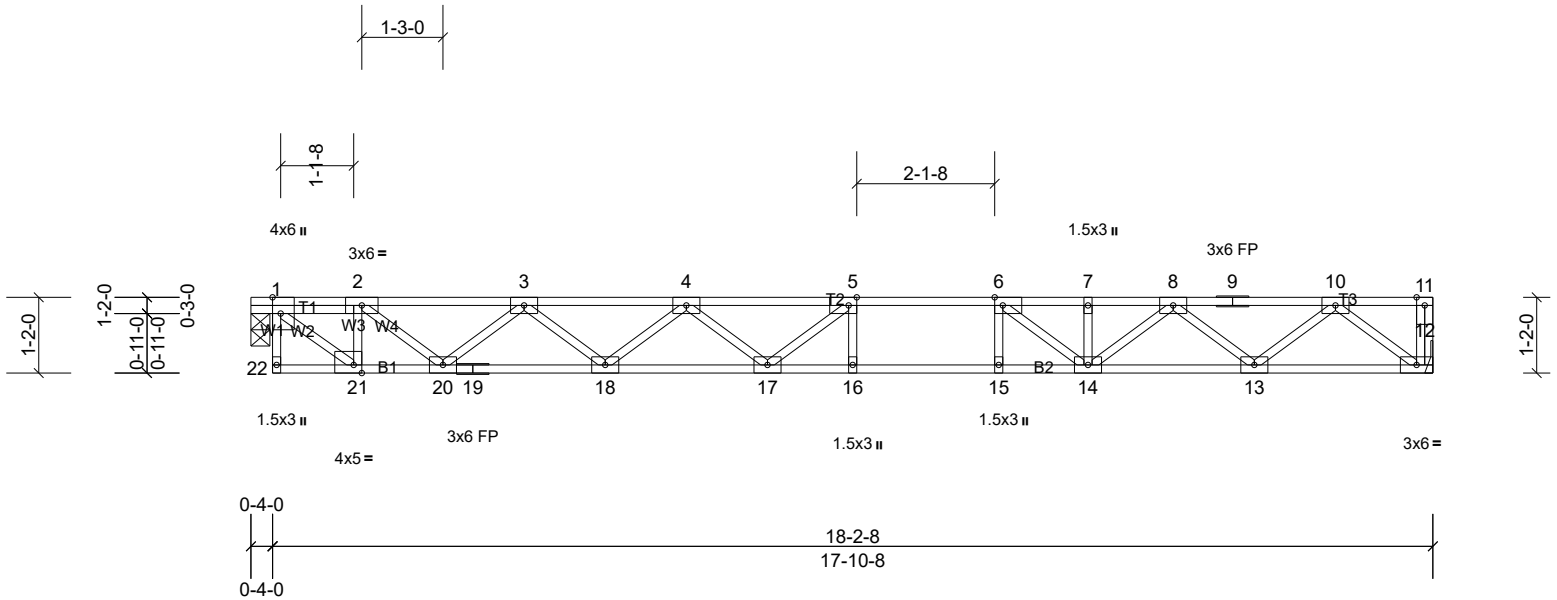
Job 20100130-B	Truss F08	Truss Type Floor	Qty 3	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:35.5

Plate Offsets (X, Y): [1:0-3-0,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [21:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.27	16-17	>786	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.37	16-17	>573	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	-0.02	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 93 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* B2:2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=778/0-3-8, (min. 0-1-8), 12=778/ Mechanical, (min. 0-1-8)

FORCES

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

TOP CHORD 1-2=-906/0, 2-3=-1607/0, 3-4=-2670/0, 4-5=-3194/0, 5-6=-3214/0, 6-7=-2701/0, 7-8=-2701/0, 8-9=-1643/0, 9-10=-1643/0
 BOT CHORD 20-21=0/904, 19-20=0/2256, 18-19=0/2256, 17-18=0/3069, 16-17=0/3214, 15-16=0/3214, 14-15=0/3214, 13-14=0/2277, 12-13=0/973
 WEBS 2-21=-697/0, 1-21=0/1149, 10-12=-1220/0, 2-20=0/896, 10-13=0/873, 3-20=-845/0, 8-13=-824/0, 3-18=0/539, 8-14=0/542, 4-18=-519/0, 4-17=0/298, 5-17=-335/206, 6-14=-834/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x5 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) 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.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

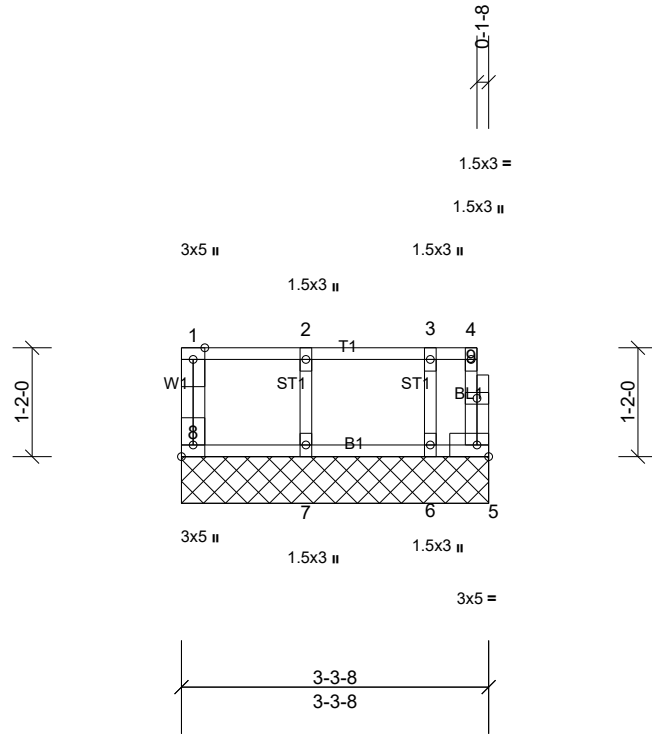
Job 20100130-B	Truss FW03	Truss Type Floor Supported Gable	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:24.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 18 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 3-3-8.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 5, 6, 7, 8

FORCES

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

NOTES

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

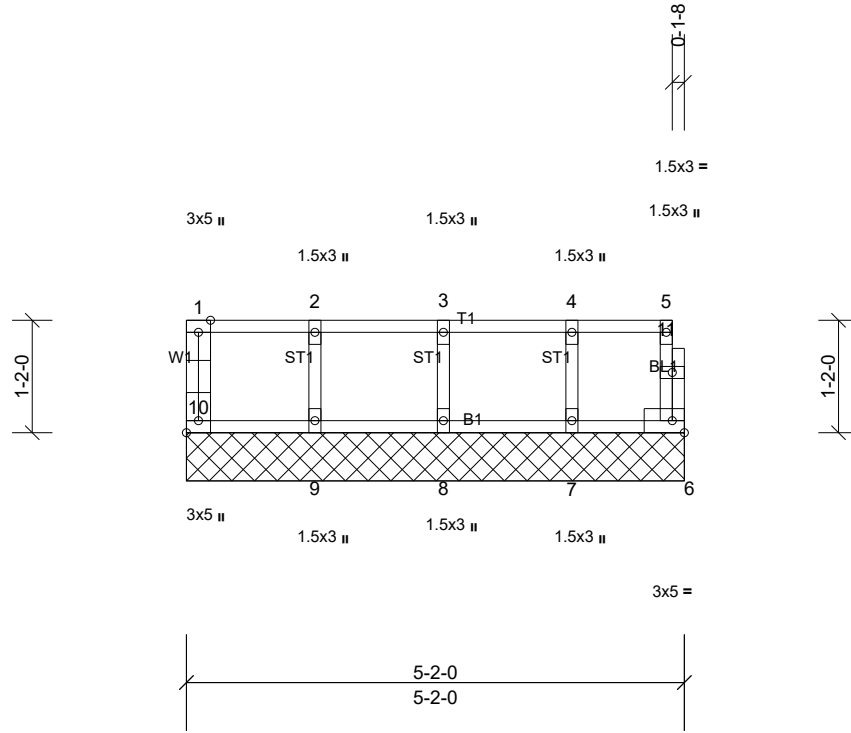
Job 20100130-B	Truss FW05	Truss Type Floor Supported Gable	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:23.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 24 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 5-2-0.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 6, 7, 8, 9, 10

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

NOTES

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

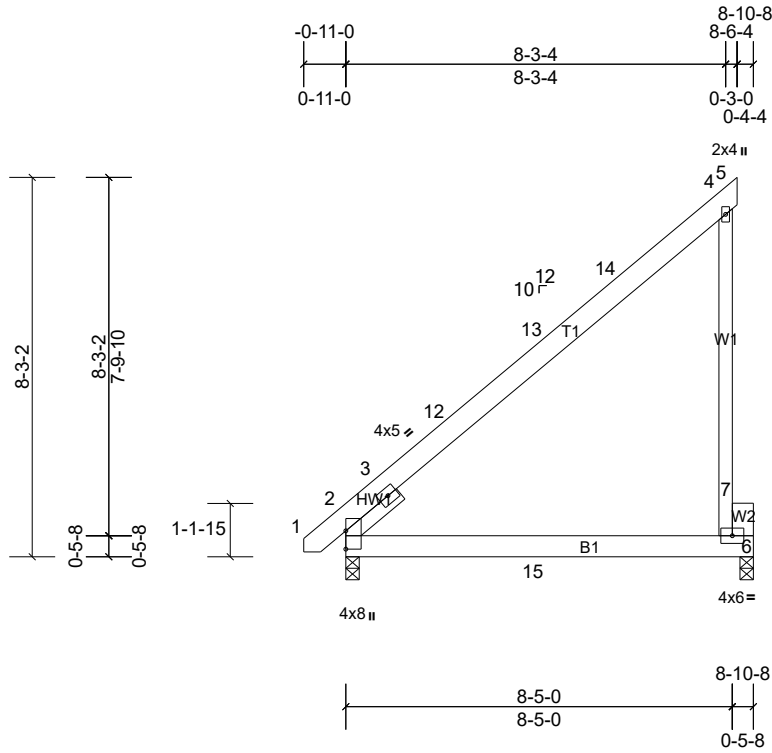
Job 20100130-B	Truss G1	Truss Type Roof Special	Qty 2	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:50.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.12	6-10	>828	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.20	6-10	>495	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 64 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except* W2:2x6 SP No.2
 SLIDER Left 2x4 SP No.3 -- 1-6-0

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=383/0-3-8, (min. 0-1-8), 6=341/0-3-8, (min. 0-1-8)
 Max Horiz 2=276 (LC 11)
 Max Uplift 6=-107 (LC 9)
 Max Grav 2=464 (LC 23), 6=519 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-715/441, 6-7=-362/137, 4-7=-366/139

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-13 to 2-3-3, Interior (1) 2-3-3 to 4-3-5, Exterior(2R) 4-3-5 to 8-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- 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.

LOAD CASE(S) Standard

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

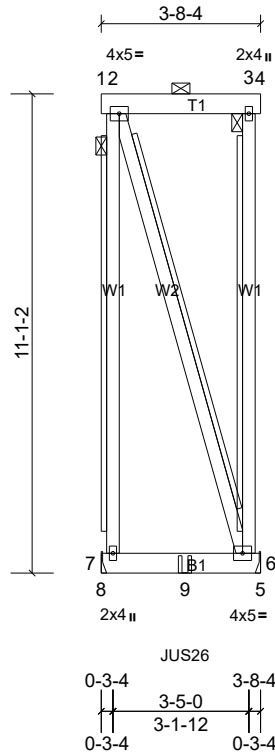
Job 20100130-B	Truss GR1	Truss Type Flat Girder	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:53.3

Loading	(psf)	Spacing	2-0-0	CSI	0.08	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.01	6-7	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.03	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 63 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD
 WEBS

2-0-0 oc purlins: 1-4, except end verticals.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 T-Brace: 2x4 SPF No.2 - 2-7, 3-6, 2-6
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS (lb/size) 6=469/ Mechanical, (min. 0-1-8), 7=433/ Mechanical, (min. 0-1-8)

Max Uplift 6=-92 (LC 7), 7=-84 (LC 6)
 Max Grav 6=501 (LC 20), 7=452 (LC 21)

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

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

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Provide adequate drainage to prevent water ponding.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 7 and 92 lb uplift at joint 6.
- 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.
- 11) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 1-11-4 from the left end to connect truss(es) D5 (1 ply 2x6 SP) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 14) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-8=-20
 Concentrated Loads (lb)
 Vert: 9=-606 (B)

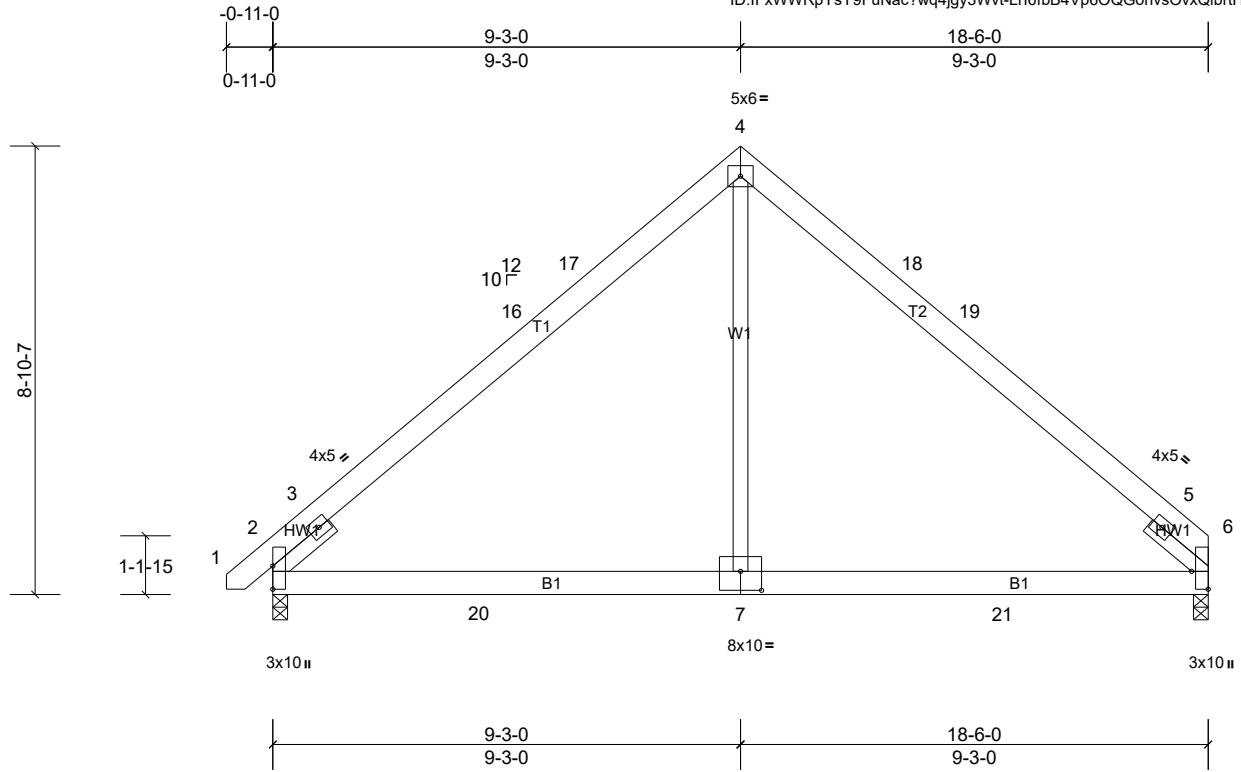
Job 20100130-B	Truss H1	Truss Type Common	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:45.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.08	7-10	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.12	7-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.03	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
												Weight: 120 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3 -- 1-6-0

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-6-4 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 2=785/0-3-8, (min. 0-1-8), 6=739/0-3-8, (min. 0-1-8)
 Max Horiz 2=190 (LC 9)
 Max Uplift 2=-65 (LC 12), 6=-51 (LC 13)
 Max Grav 2=940 (LC 3), 6=902 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-600/267, 3-16=-931/111, 16-17=-792/115, 4-17=-755/146, 4-18=-755/146, 18-19=-791/114, 5-19=-930/111, 5-6=-470/52
 BOT CHORD 2-20=-241/648, 7-20=-5/648, 7-21=-5/648, 6-21=-5/648
 WEBS 4-7=0/574

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-13 to 2-3-3, Interior (1) 2-3-3 to 6-3-0, Exterior(2R) 6-3-0 to 12-3-0, Interior (1) 12-3-0 to 15-6-0, Exterior(2E) 15-6-0 to 18-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 2. This connection is for uplift only and does not consider lateral forces.
- 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.

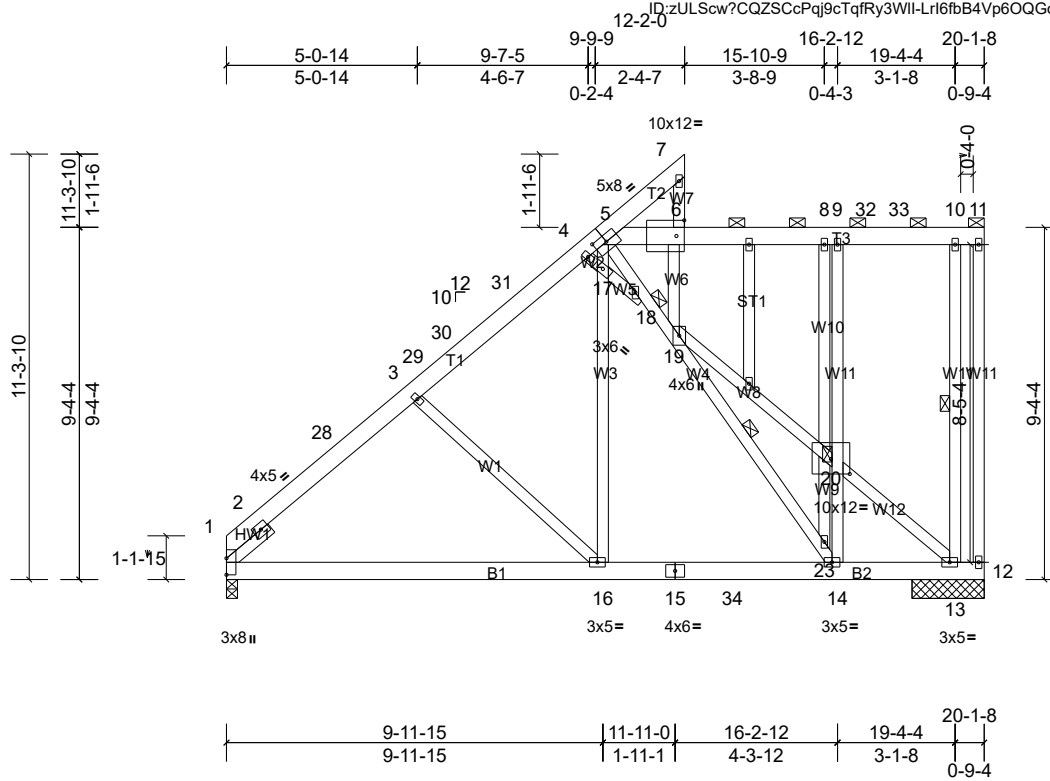
LOAD CASE(S) Standard

Job 20100130-B	Truss H2	Truss Type Half Hip	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:61.2

Plate Offsets (X, Y): [5:0-4-0,0-2-4], [6:0-2-8,0-5-0], [20:0-6-0,0-4-12]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.05	14-16	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.10	16-26	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.01	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 226 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* W4:2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 10-13, 14-18
JOINTS 1 Brace at Jt(s): 11, 18, 20

REACTIONS (lb/size) 1=732/0-3-8, (min. 0-1-8), 12=-585/1-11-0, (min. 0-1-8), 13=1406/1-11-0, (min. 0-1-8)
Max Horiz 1=356 (LC 12)
Max Uplift 12=-714 (LC 32), 13=-236 (LC 9)
Max Grav 1=907 (LC 33), 12=103 (LC 9), 13=1733 (LC 32)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-628/0, 2-28=-964/0, 3-28=-895/15, 3-29=-808/0, 29-30=-755/0, 30-31=-735/9, 4-31=-621/26, 4-5=-518/5
BOT CHORD 1-16=-352/768, 15-16=-151/611, 15-34=-151/611, 14-34=-151/611, 13-14=-121/678
WEBS 14-20=-453/120, 9-20=-50/341, 10-13=-398/77, 16-17=-30/511, 5-17=-43/526, 5-18=-382/78, 18-19=-839/206, 19-23=-32/327, 14-23=-42/386, 4-17=-448/140, 17-18=-492/138, 19-20=-825/149, 13-20=-910/162, 8-20=-747/148

- NOTES**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-9-5, Exterior(2E) 7-9-5 to 12-0-4, Interior (1) 11-11-7 to 16-11-12, Exterior(2E) 16-11-12 to 19-11-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One RT8A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

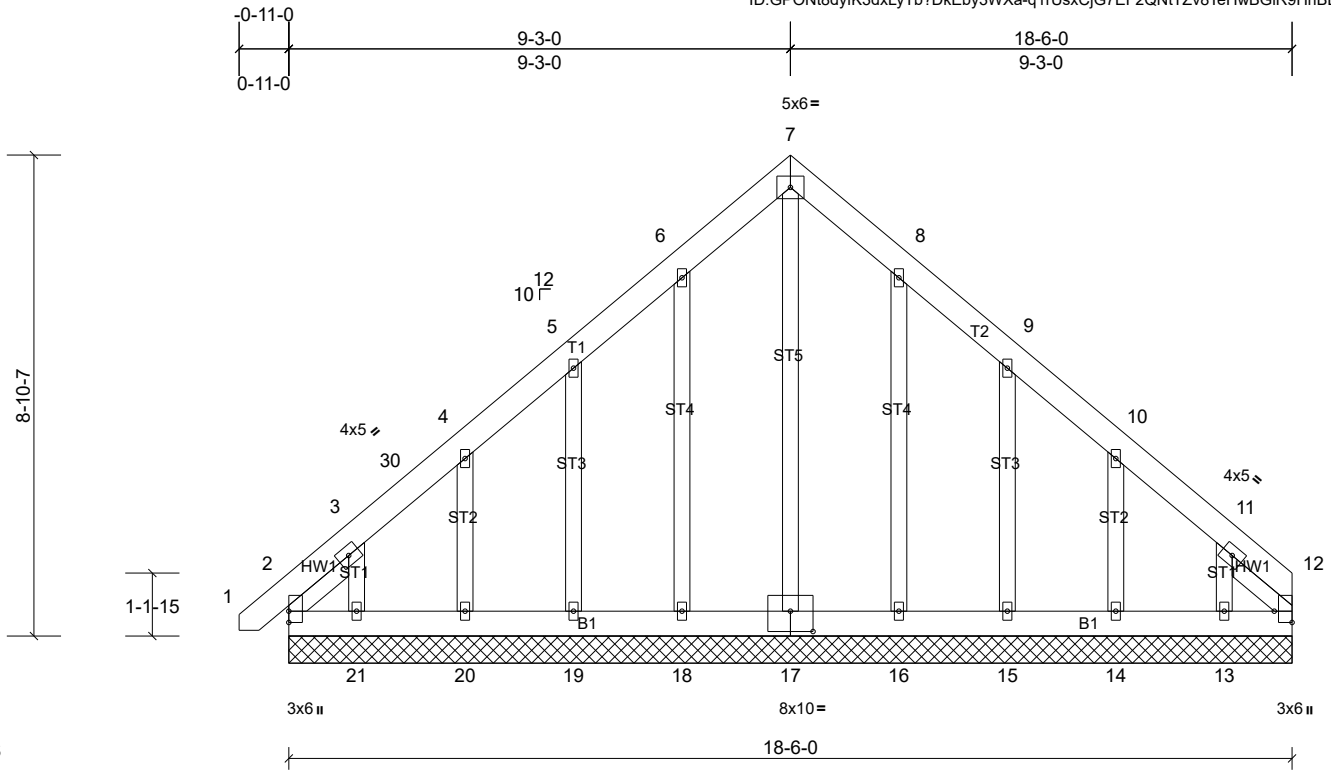
Job 20100130-B	Truss H3	Truss Type Common Supported Gable	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:42.5

Plate Offsets (X, Y): [12:Edge,0-3-15], [17:0-5-0,0-4-8]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 165 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 1-6-1, Right 2x4 SP No.3 -- 1-6-1

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

REACTIONS All bearings 18'-6-0.
(lb) - Max Horiz 2=185 (LC 9), 26=185 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 12, 14, 15, 16, 18, 19, 20, 22, 26 except 13=-150 (LC 13), 21=-164 (LC 12)
Max Grav All reactions 250 (lb) or less at joint(s) 2, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 26

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

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-13 to 2-3-3, Exterior(2N) 2-3-3 to 6-3-0, Corner(3R) 6-3-0 to 12-3-0, Exterior(2N) 12-3-0 to 15-3-0, Corner(3E) 15-3-0 to 18-6-0 zone; 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2'-0" oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
 - 11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12, 2, 18, 19, 20, 21, 16, 15, 14, and 13. This connection is for uplift only and does not consider lateral forces.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

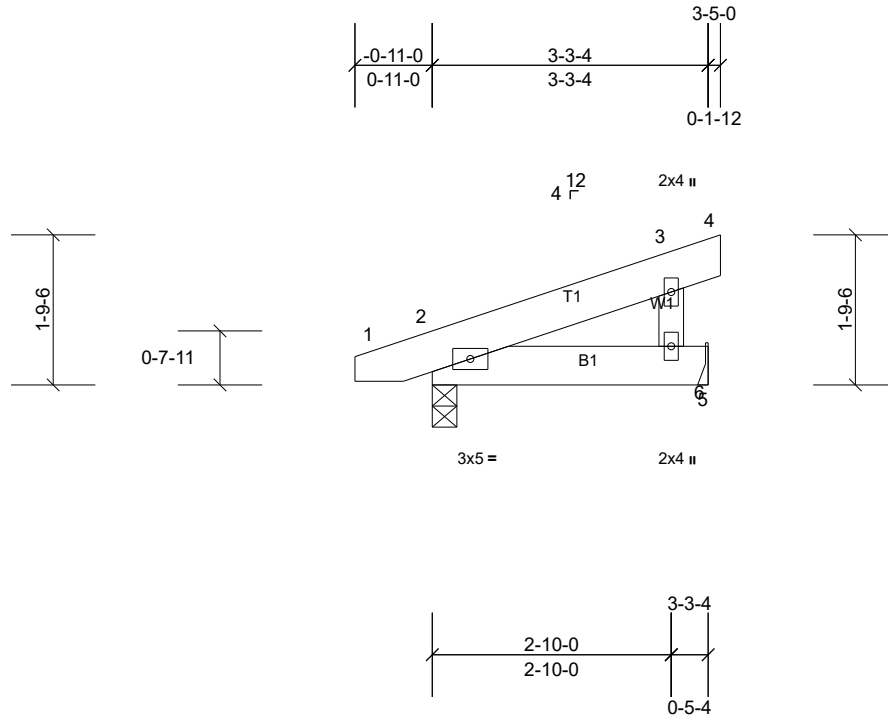
Job 20100130-B	Truss J03	Truss Type Jack-Closed	Qty 9	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:27.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	6-9	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 20 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 3-3-4 oc purlins, except end verticals.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=169/0-3-8, (min. 0-1-8), 5=138/ Mechanical, (min. 0-1-8)
 Max Horiz 2=51 (LC 8)
 Max Uplift 2=-36 (LC 8), 5=-31 (LC 12)
 Max Grav 2=230 (LC 19), 5=184 (LC 19)

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

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

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at jt(s) 5.
- 9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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.

LOAD CASE(S) Standard

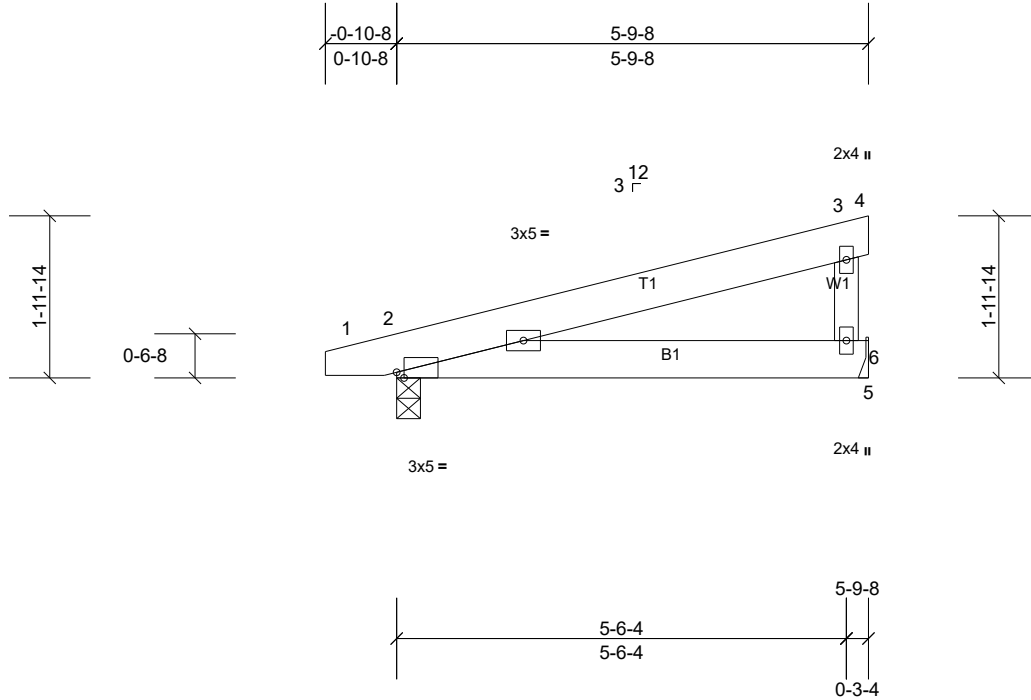
Job 20100130-B	Truss J05	Truss Type Jack-Closed	Qty 13	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:28.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 20.0)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.04	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	0.03	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP								
											Weight: 31 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=253/0-3-8, (min. 0-1-8), 6=242/ Mechanical, (min. 0-1-8)
 Max Horiz 2=59 (LC 8)
 Max Uplift 2=-95 (LC 8), 6=-92 (LC 8)
 Max Grav 2=335 (LC 19), 6=317 (LC 19)

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

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

TOP CHORD 2-3=-223/270
 BOT CHORD 2-6=-307/198

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; porch 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at jt(s) 2.
- 9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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.

LOAD CASE(S) Standard

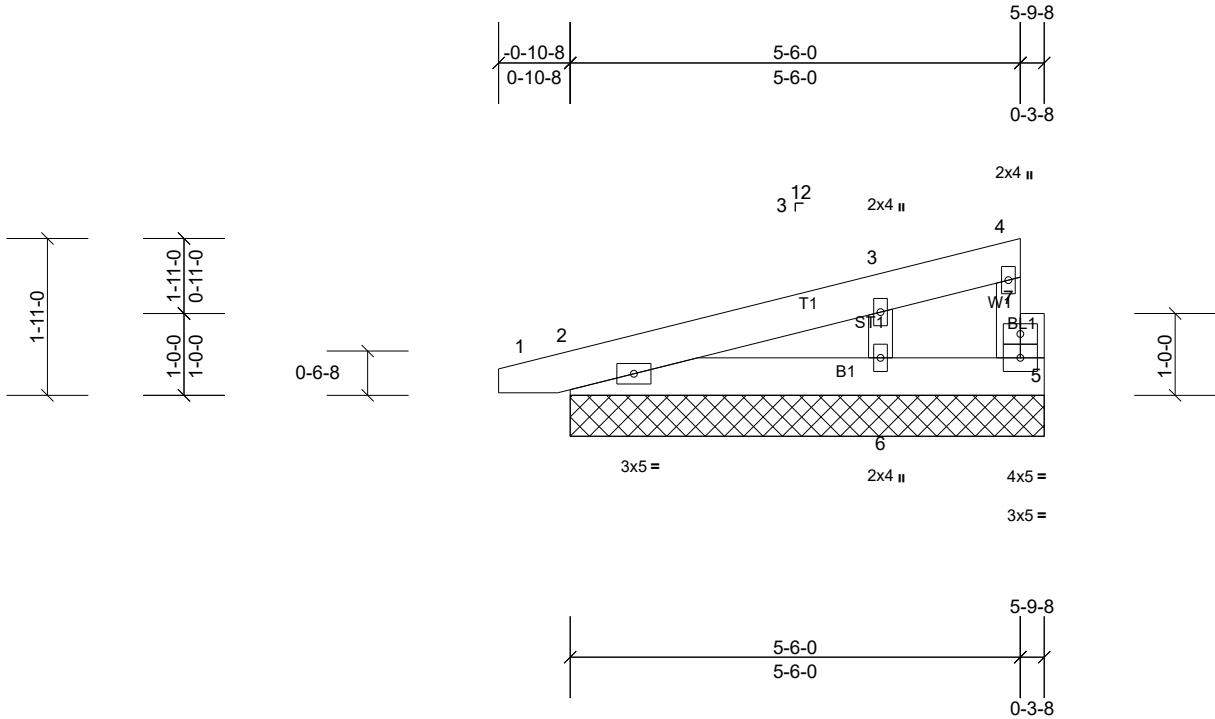
Job 20100130-B	Truss J05A	Truss Type Jack-Closed Structural Gable	Qty 2	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:28.2

Plate Offsets (X, Y): [2:0-6-13,0-0-13]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 20.0)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP								
											Weight: 32 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.

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 5-9-8.
(lb) - Max Horiz 2=55 (LC 8), 8=55 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 8
Max Grav All reactions 250 (lb) or less at joint(s) 2, 5, 8 except 6=395 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6--321/247

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone;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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 10) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

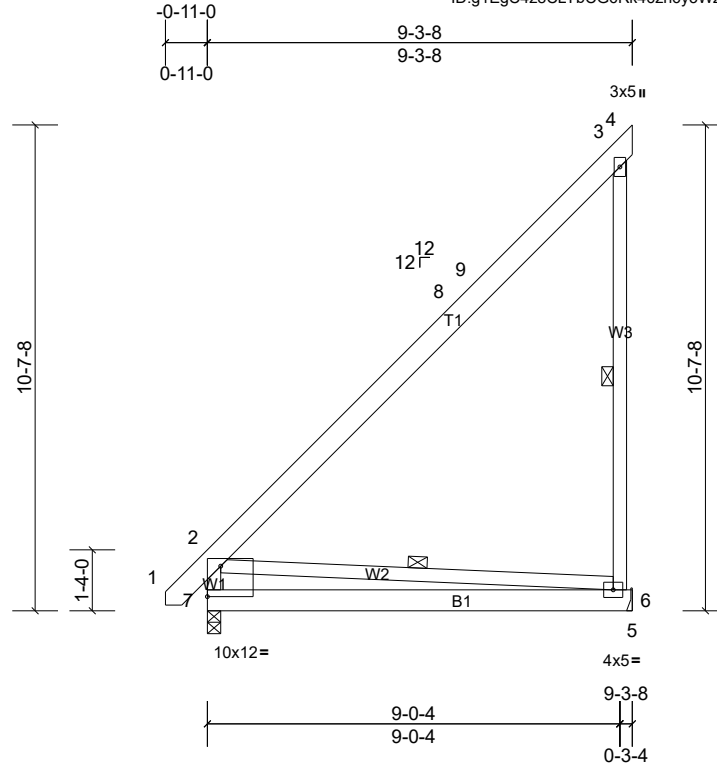
Job 20100130-B	Truss J09	Truss Type Jack-Closed	Qty 9	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:50.4

Plate Offsets (X, Y): [7:Edge,0-8-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.07	6-7	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.14	6-7	>778	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	-0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 83 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except* W1:2x4 SP No.2

REACTIONS (lb/size) 6=374/ Mechanical, (min. 0-1-8), 7=410/0-3-8, (min. 0-1-8)
 Max Horiz 7=325 (LC 12)
 Max Uplift 6=-199 (LC 12)
 Max Grav 6=529 (LC 19), 7=445 (LC 19)

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

TOP CHORD 2-7=-353/0, 2-8=-268/159, 3-6=-385/219
 BOT CHORD 6-7=-599/839
 WEBS 2-6=-829/595

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-14 to 2-3-2, Interior (1) 2-3-2 to 5-0-9, Exterior(2R) 5-0-9 to 9-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 6.
- 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.

LOAD CASE(S) Standard

BRACING

TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 9-3-8 oc bracing.
 1 Row at midpt

3-6, 2-6

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

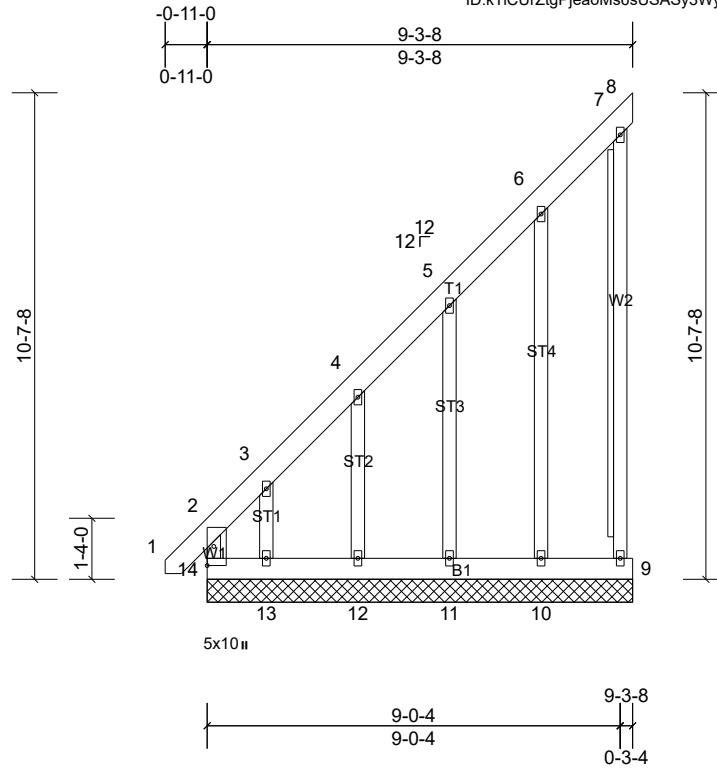
Job 20100130-B	Truss J09A	Truss Type Jack-Closed Supported Gable	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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ID:kTICUrZtgPjeaoMs6sUSA5y3Wyn-IEPs4HDL1QM6gay41HQN0rq_kg29uikKSpCOuly3R90



Scale = 1:50.3

Loading	(psf)	Spacing	2-0-0	CSI	0.50	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	-0.03	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 98 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
 Rigid ceiling directly applied or 10'-0-0 oc bracing.
 T-Brace: 2x4 SPF No.2 - 7-9
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS

All bearings 9-3-8.
 (lb) - Max Horiz 14=363 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9, 10, 12 except 11=-111 (LC 12), 13=-425 (LC 12), 14=-175 (LC 10)
 Max Grav All reactions 250 (lb) or less at joint(s) 8, 9, 11, 12, 13 except 10=262 (LC 19), 14=612 (LC 12)

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

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-14=-488/395, 2-3=-626/496, 3-4=-416/330, 4-5=-302/241
 WEBS 3-13=-277/286

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-14 to 2-3-2, Exterior(2N) 2-3-2 to 9-3-8 zone; 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2'-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 12) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14, 8, 9, 10, 11, 12, and 13. This connection is for uplift only and does not consider lateral forces.
- 13) 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.
- 14) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

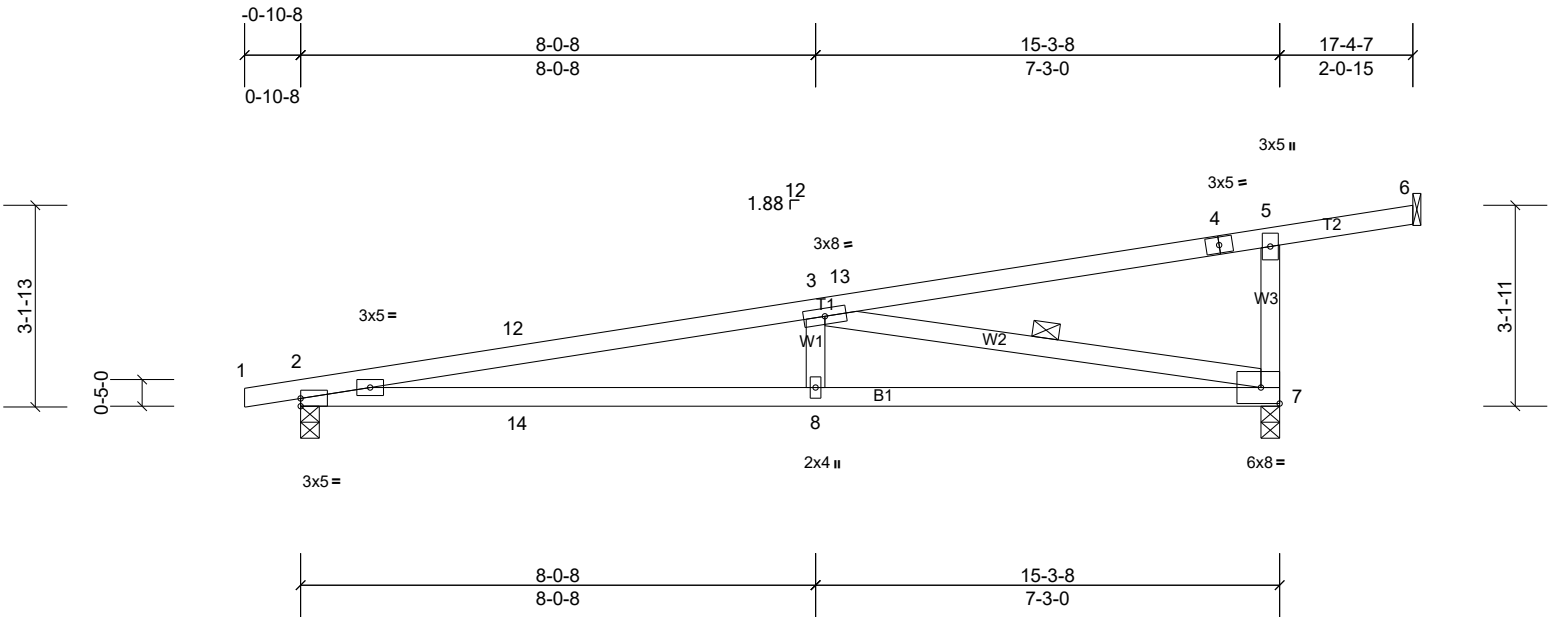
Job 20100130-B	Truss J13	Truss Type Jack-Closed	Qty 2	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:36

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.39	8-11	>469	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.32	8-11	>575	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	-0.05	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 65 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 3-1-2 oc purlins, except end verticals.

Rigid ceiling directly applied or 2-11-6 oc bracing.
 1 Row at midpt

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

REACTIONS (lb/size) 2=645/0-3-8, (min. 0-1-8), 6=-33/ Mechanical, (min. 0-1-8), 7=781/0-3-8, (min. 0-1-8)
 Max Horiz 2=91 (LC 8)
 Max Uplift 2=-234 (LC 8), 6=-45 (LC 19), 7=-215 (LC 8)
 Max Grav 2=673 (LC 19), 6=6 (LC 8), 7=949 (LC 19)

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

TOP CHORD 2-12=-2047/2344, 3-12=-2020/2352, 5-7=-503/276
 BOT CHORD 2-14=-2430/1995, 8-14=-2430/1995, 7-8=-2430/1995
 WEBS 3-8=-502/325, 3-7=-1988/2419

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-10-6 to 3-4-9, Exterior(2R) 3-4-9 to 17-3-11 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- One RT16A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.
- 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.

LOAD CASE(S) Standard

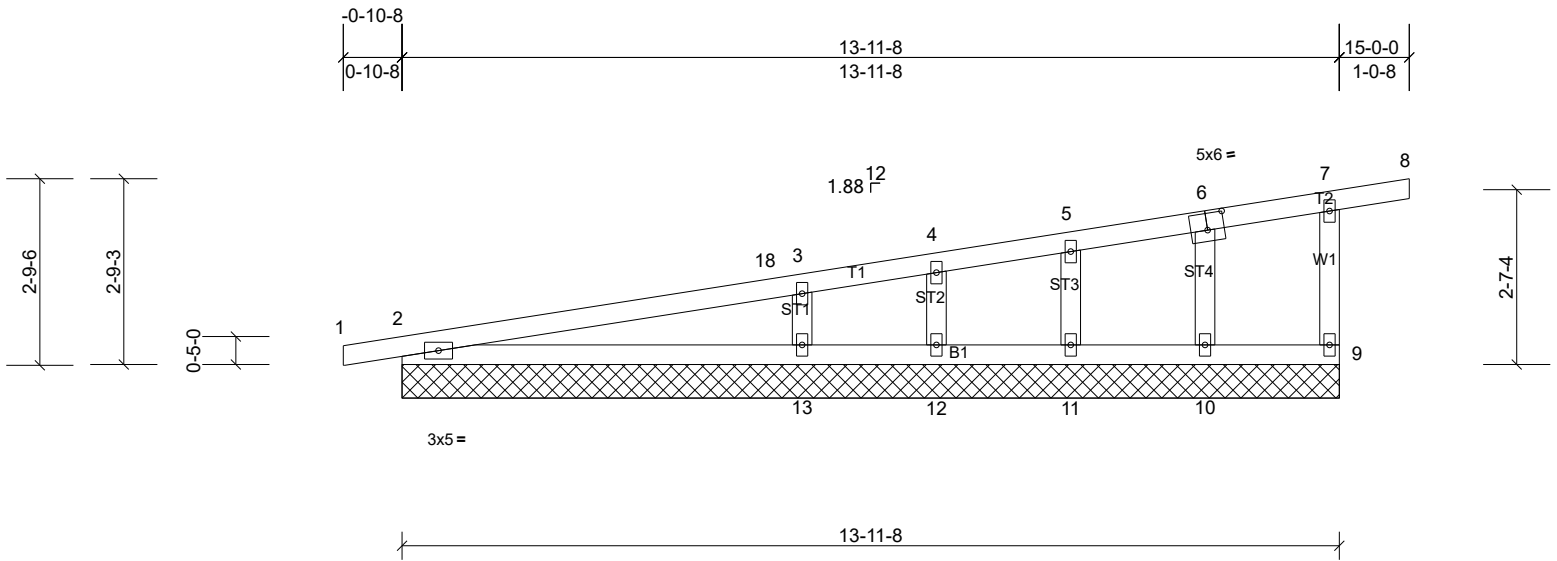
Job 20100130-B	Truss J13A	Truss Type Jack-Closed Supported Gable	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:34.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.31	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 55 lb	FT = 20%

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

REACTIONS All bearings 13-11-8.
(lb) - Max Horiz 2=92 (LC 8), 14=92 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 9, 10, 11, 12, 13, 14
Max Grav All reactions 250 (lb) or less at joint(s) 2, 9, 10, 12, 14 except
11=257 (LC 19), 13=541 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-13=-363/240

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-6 to 2-1-10, Exterior(2N) 2-1-10 to 11-11-11, Corner(3E) 11-11-11 to 15-0-0 zone;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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 9, 10, 11, 12, and 13. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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.

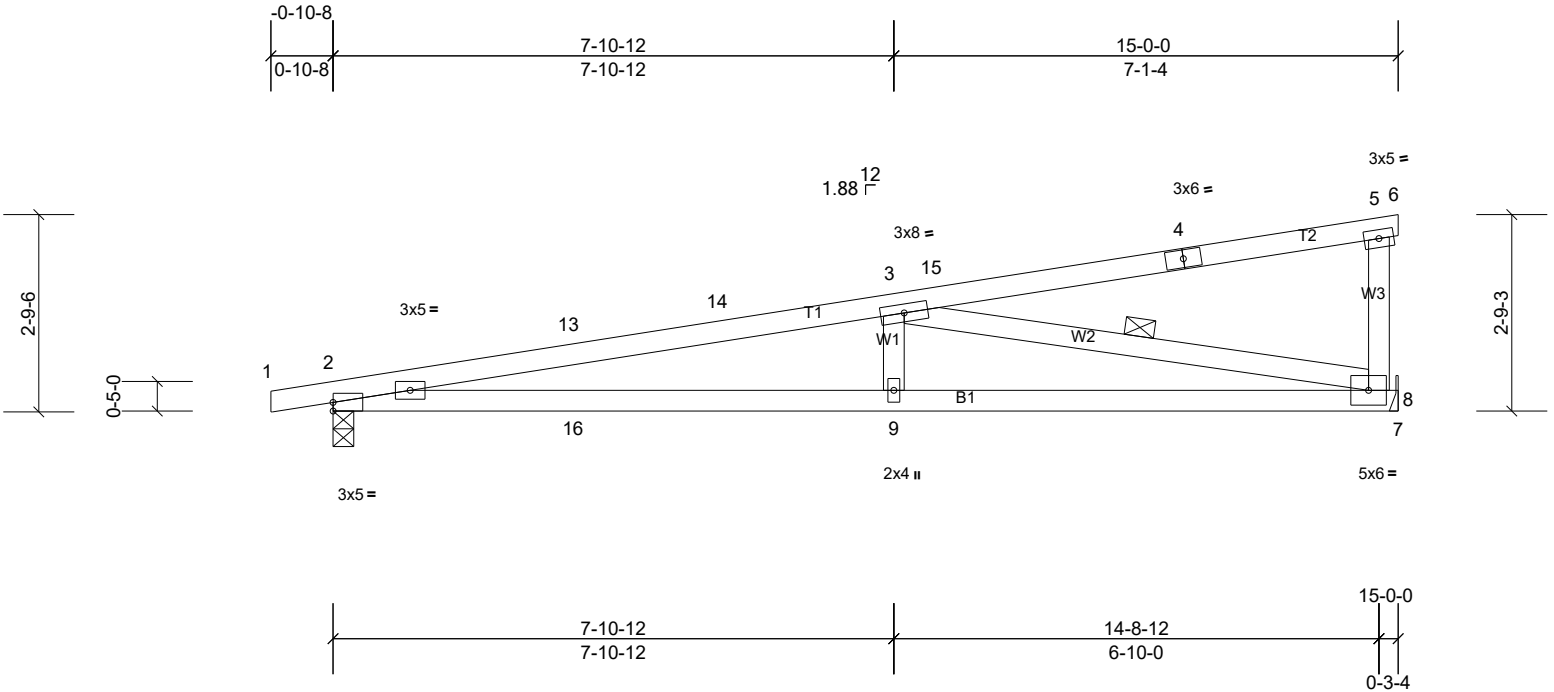
Job 20100130-B	Truss J15	Truss Type Jack-Closed	Qty 5	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:32.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	0.37	9-12	>475	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.32	9-12	>555	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 61 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 3-0-15 oc purlins, except end verticals.

Rigid ceiling directly applied or 2-10-13 oc bracing.
 1 Row at midpt

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

REACTIONS (lb/size) 2=642/0-3-8, (min. 0-1-8), 8=610/ Mechanical, (min. 0-1-8)

Max Horiz 2=81 (LC 8)
 Max Uplift 2=-234 (LC 8), 8=-171 (LC 8)
 Max Grav 2=700 (LC 19), 8=741 (LC 19)

FORCES

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

TOP CHORD 2-13=-2193/2345, 13-14=-2166/2346, 3-14=-2152/2354, 5-8=-261/117
 BOT CHORD 2-16=-2412/2140, 9-16=-2412/2140, 8-9=-2412/2140
 WEBS 3-9=-473/305, 3-8=-2058/2337

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-6 to 3-4-9, Exterior(2R) 3-4-9 to 15-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 8.
- 9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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.

LOAD CASE(S) Standard

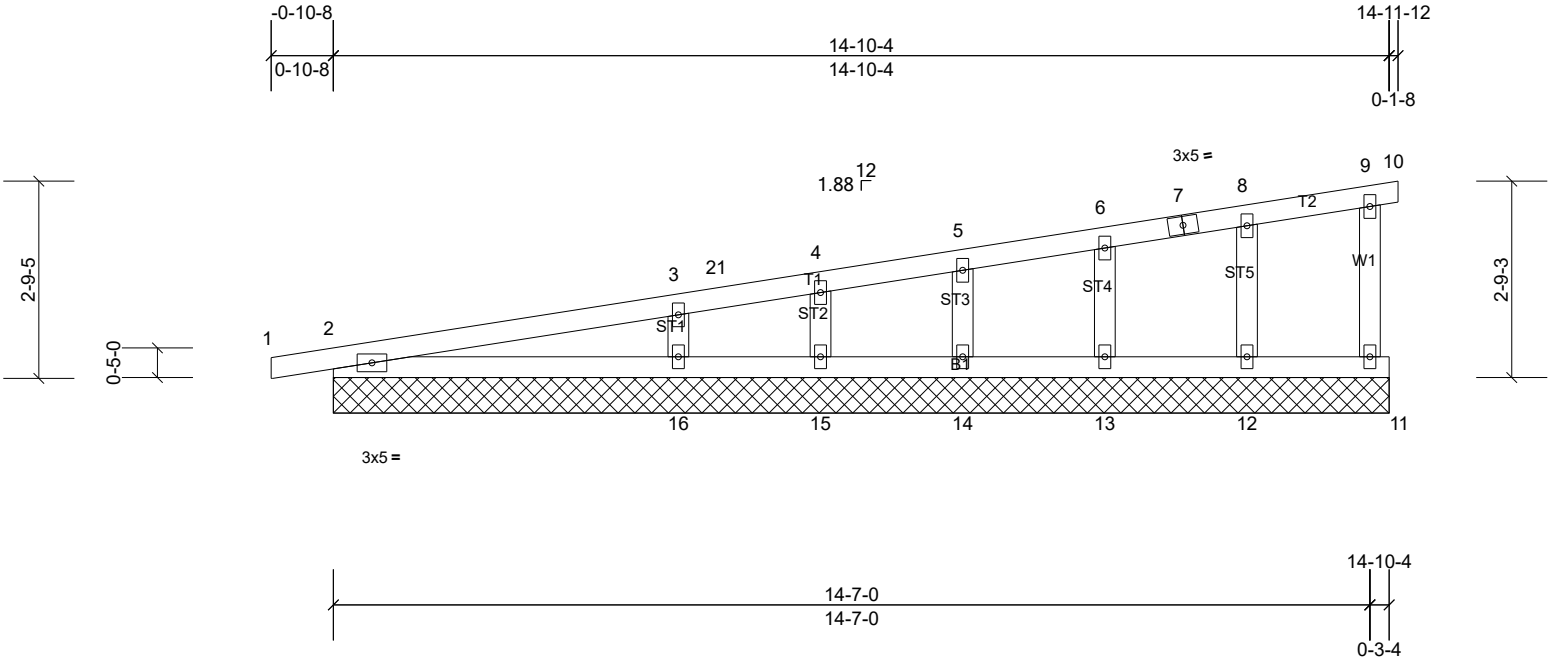
Job 20100130-B	Truss J15A	Truss Type Jack-Closed Structural Gable	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:32.4

Loading	(psf)	Spacing	2-0-0	CSI	0.22	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 58 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS All bearings 14-10-4.
(lb) - Max Horiz 2=91 (LC 11), 17=91 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 11, 12, 13, 14, 15, 16, 17
Max Grav All reactions 250 (lb) or less at joint(s) 2, 11, 12, 13, 14, 15, 17 except 16=401 (LC 19)

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-16=-266/175

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-6 to 2-1-10, Exterior(2N) 2-1-10 to 11-11-12, Corner(3E) 11-11-12 to 14-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2'-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
 - 11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 11, 12, 13, 14, 15, and 16. This connection is for uplift only and does not consider lateral forces.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

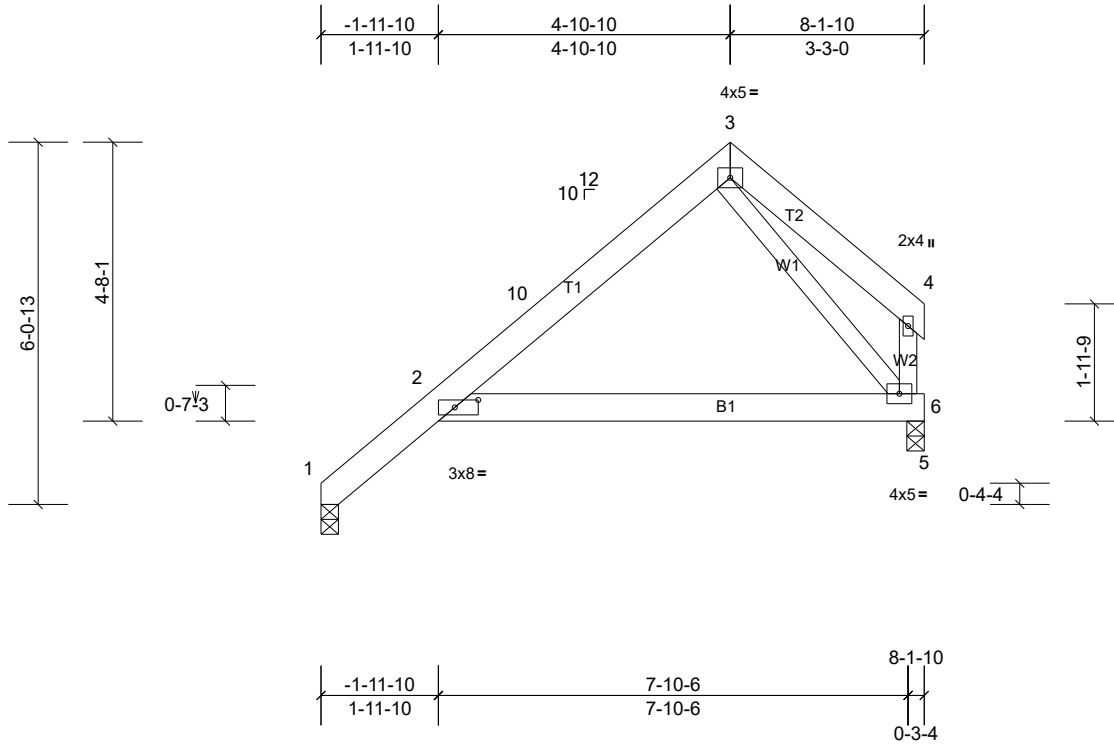
Job 20100130-B	Truss K1	Truss Type Roof Special	Qty 2	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:38.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.11	6-9	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.23	6-9	>512	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.13	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 60 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS (lb/size) 1=409/0-3-8, (min. 0-1-8), 6=397/0-3-8, (min. 0-1-8)

Max Horiz 1=148 (LC 9)
Max Uplift 1=-13 (LC 12), 6=-45 (LC 12)
Max Grav 1=450 (LC 19), 6=448 (LC 20)

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

FORCES

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

TOP CHORD 1-2=-299/47, 2-10=-620/104
BOT CHORD 2-6=-246/703
WEBS 3-6=-264/39

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 3-10-4, Exterior(2R) 3-10-4 to 6-10-4, Exterior(2E) 6-10-4 to 9-10-0 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
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 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.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 6. This connection is for uplift only and does not consider lateral forces.
- 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.

LOAD CASE(S) Standard

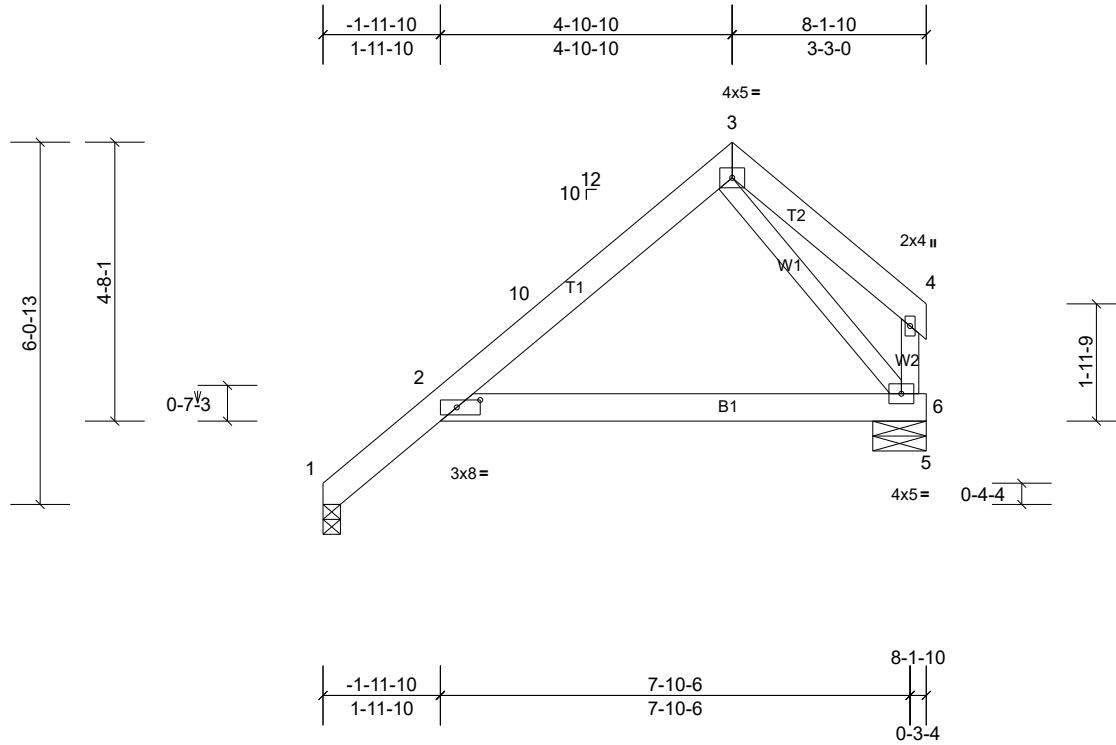
Job 20100130-B	Truss K2	Truss Type Roof Special	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:38.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.11	6-9	>999	240	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.23	6-9	>512	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.13	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 60 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.

Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS (lb/size) 1=409/0-3-8, (min. 0-1-8), 6=397/0-10-12, (min. 0-1-8)
 Max Horiz 1=148 (LC 9)
 Max Uplift 1=-13 (LC 12), 6=-45 (LC 12)
 Max Grav 1=450 (LC 19), 6=448 (LC 20)

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

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

TOP CHORD 1-2=-299/47, 2-10=-620/104
 BOT CHORD 2-6=-246/703
 WEBS 3-6=-264/39

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 3-10-4, Exterior(2R) 3-10-4 to 6-10-4, Exterior(2E) 6-10-4 to 9-10-0 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 6) 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.
- 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 6. This connection is for uplift only and does not consider lateral forces.
- 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.

LOAD CASE(S) Standard

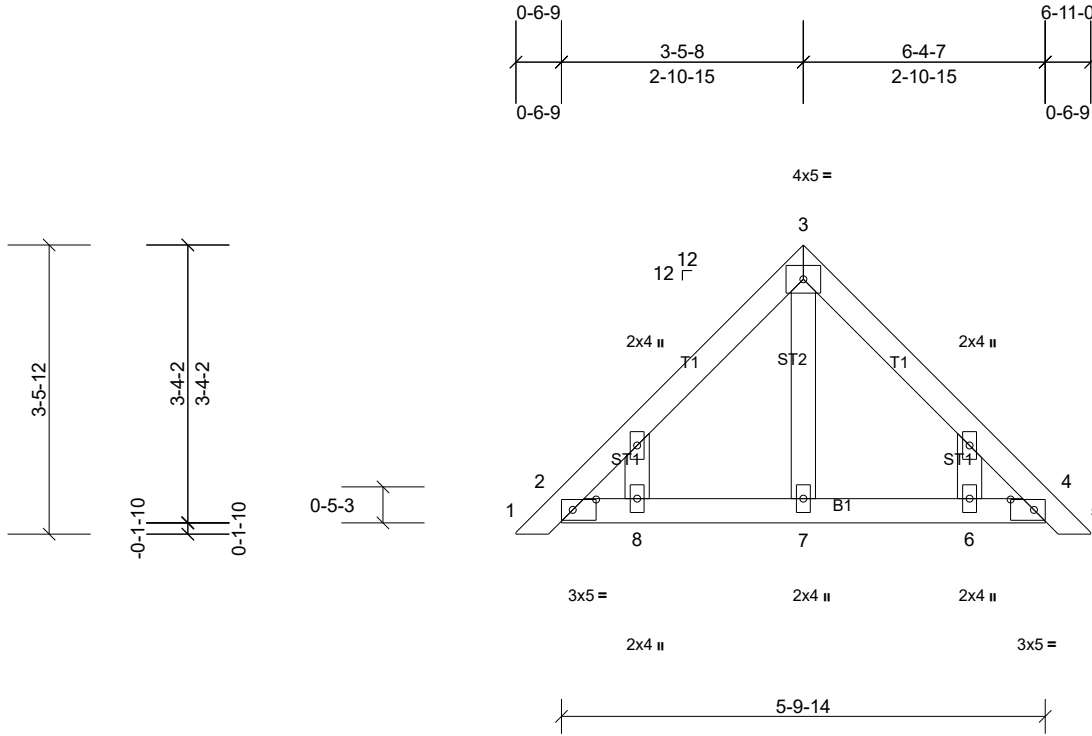
Job 20100130-B	Truss PB06	Truss Type Piggyback	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:27.7

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

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 20.0)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 30 lb	FT = 20%

LUMBER

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

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.

REACTIONS All bearings 5-9-14.
 (lb) - Max Horiz 2=-74 (LC 10), 11=-74 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 6, 8, 11, 14
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 8, 11, 14

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

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 10) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 4, 8, and 6. This connection is for uplift only and does not consider lateral forces.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

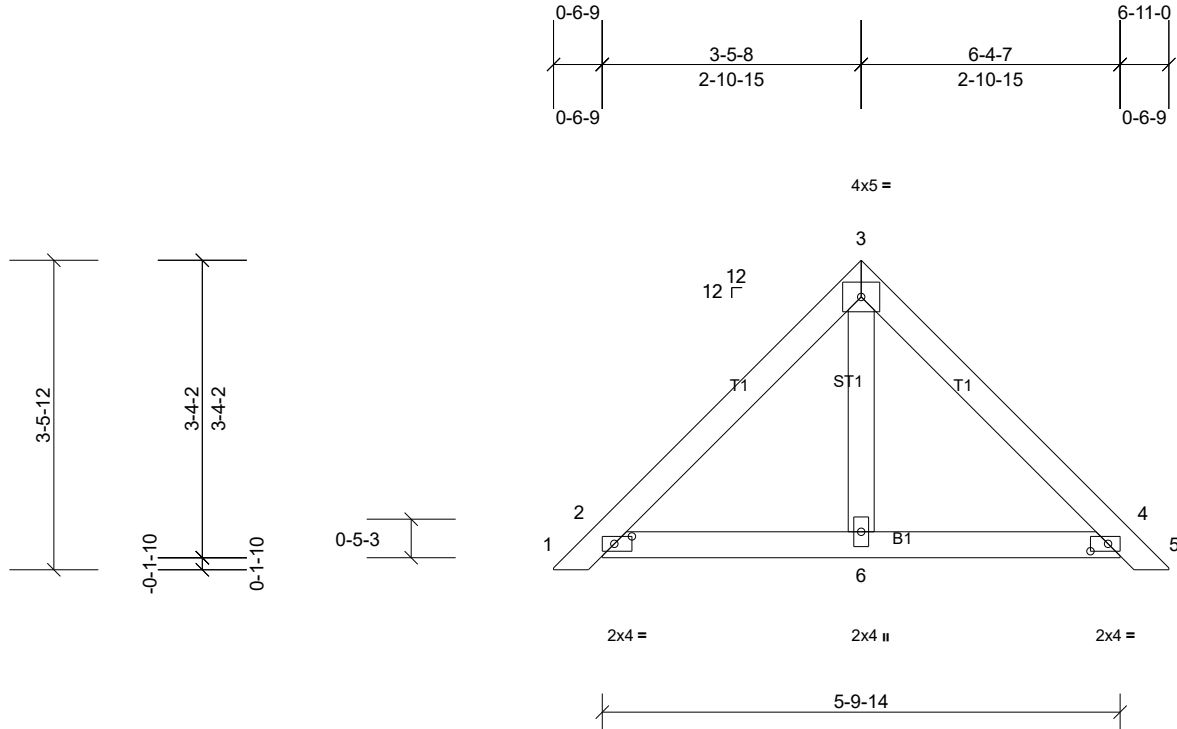
Job 20100130-B	Truss PB06A	Truss Type Piggyback	Qty 4	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:25.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 20.0)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 27 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

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

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

REACTIONS All bearings 5-9-14.

- (lb) - Max Horiz 2=77 (LC 11), 7=77 (LC 11)
- Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10
- Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 10

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

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

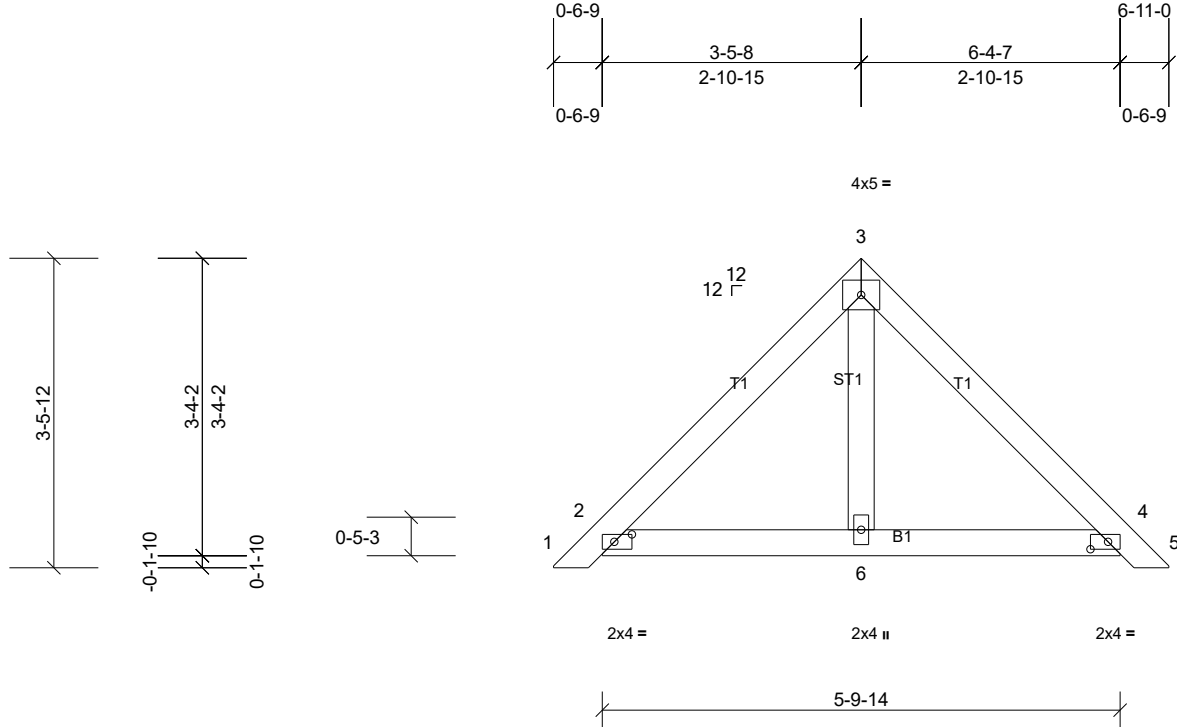
Job 20100130-B	Truss PB06B	Truss Type Piggyback	Qty 1	Ply 3	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:25.9

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

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (Roof Snow = 20.0)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 81 lb	FT = 20%

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

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.

REACTIONS All bearings 5-9-14.
(lb) - Max Horiz 2=74 (LC 11), 7=74 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 10

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

- NOTES**
- 3-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

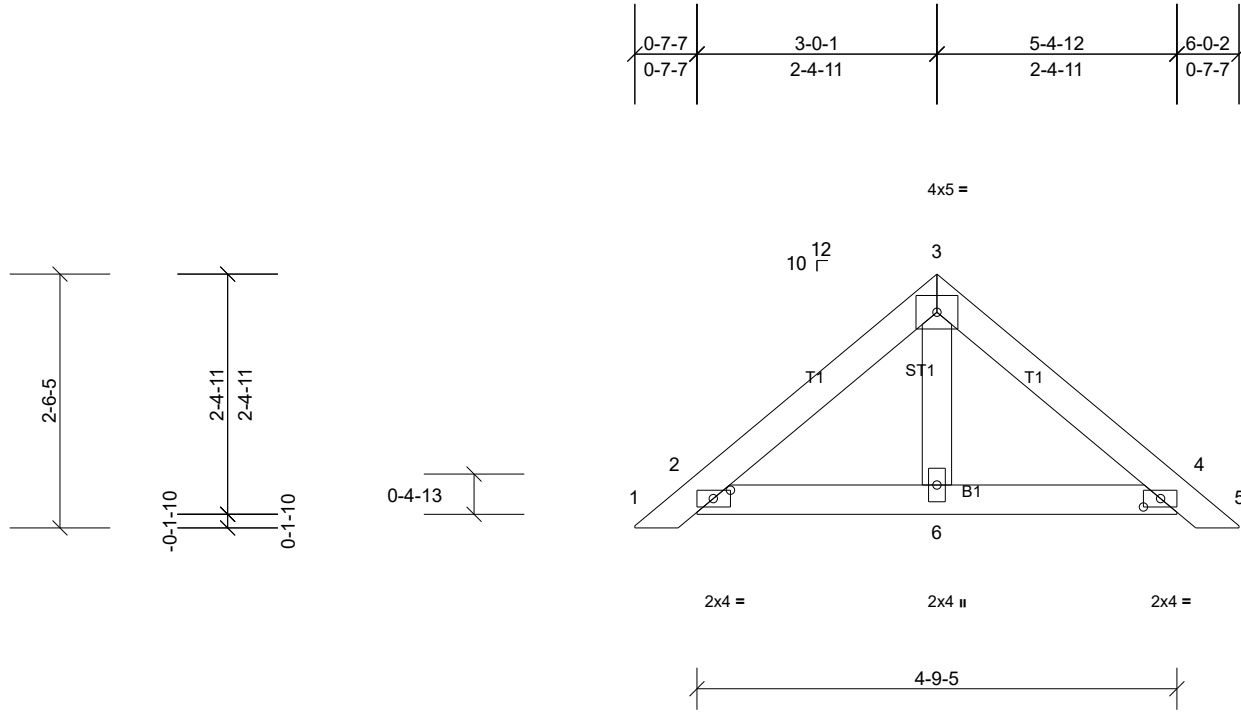
Job 20100130-B	Truss PB06C	Truss Type Piggyback	Qty 1	Ply 2	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:22.9

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

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 20.0)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 43 lb	FT = 20%

LUMBER

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

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.

REACTIONS All bearings 4-9-5.

- (lb) - Max Horiz 2=53 (LC 11), 7=53 (LC 11)
- Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11
- Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 11

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

NOTES

- 2-ply truss to be connected together as follows:
 Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

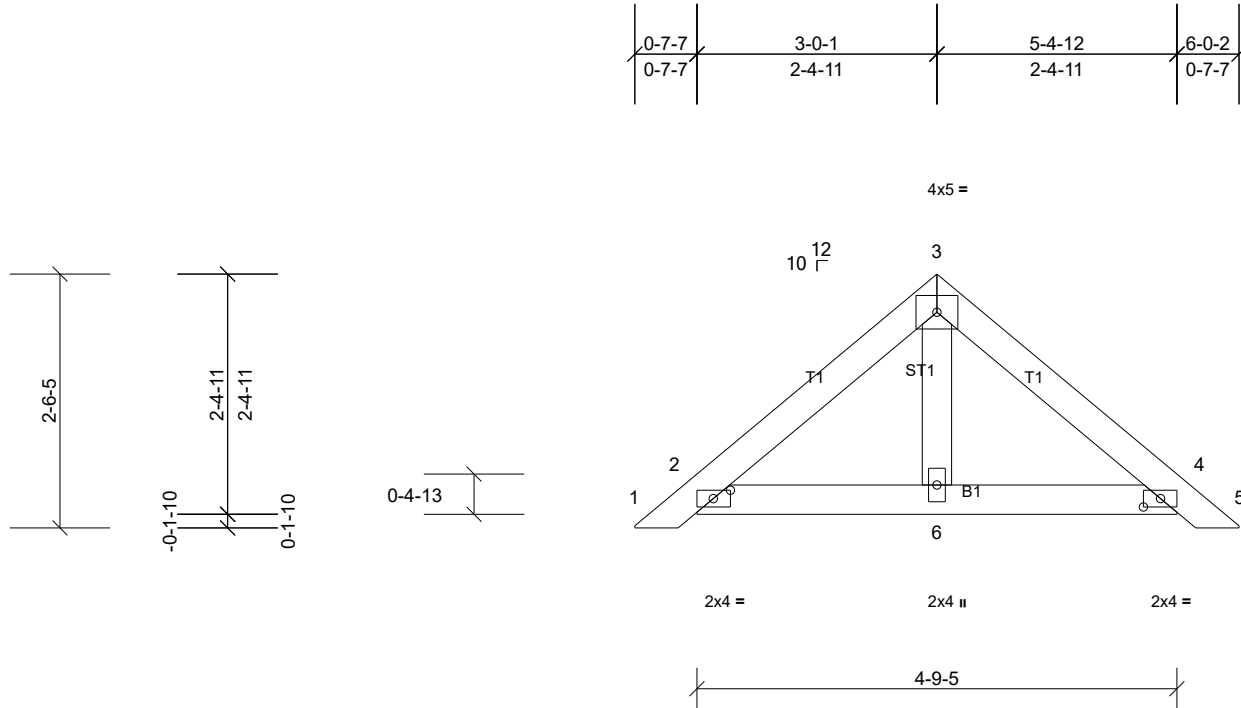
Job 20100130-B	Truss PB06D	Truss Type Piggyback	Qty 6	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:22.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 20.0)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

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

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

REACTIONS All bearings 4-9-5.
 (lb) - Max Horiz 2=-55 (LC 10), 7=-55 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 11

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

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 4-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 10) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

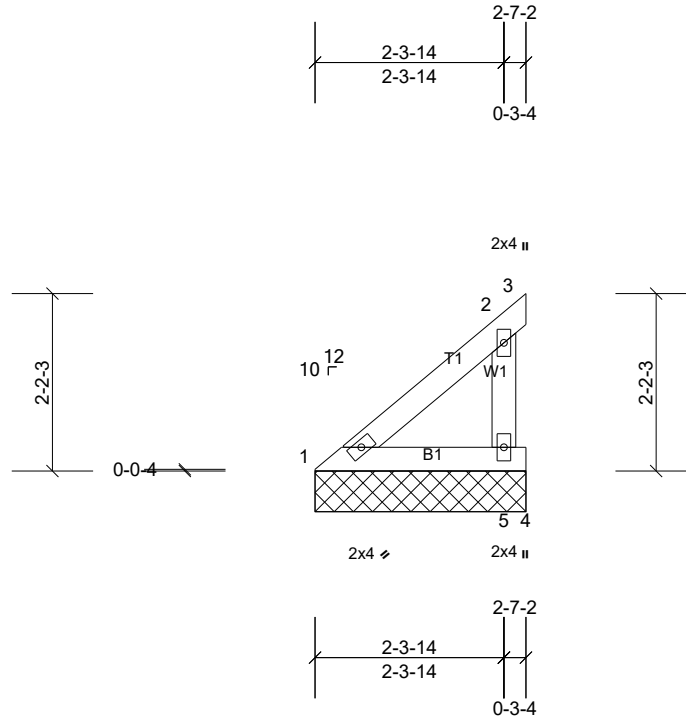
Job 20100130-B	Truss V02	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:28.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 2-7-6 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 1=80/2-7-2, (min. 0-1-8), 4=-103/2-7-2, (min. 0-1-8),
5=230/2-7-2, (min. 0-1-8)
Max Horiz 1=72 (LC 12)
Max Uplift 4=-142 (LC 18), 5=-79 (LC 12)
Max Grav 1=113 (LC 18), 4=28 (LC 12), 5=323 (LC 18)

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

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 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 3-06-00 tall by 2-00-00 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 142 lb uplift at joint 4 and 79 lb uplift at joint 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

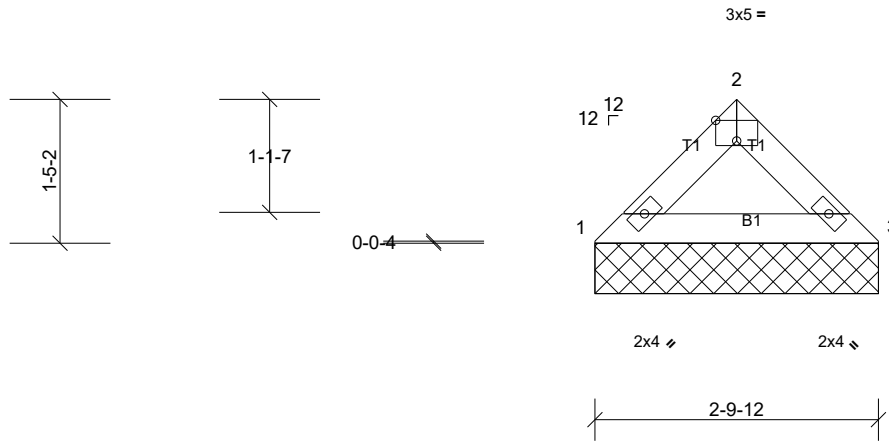
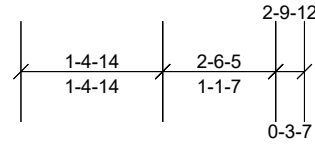
Job 20100130-B	Truss V02A	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:22.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 20.0)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 9 lb	FT = 20%

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 2-9-12 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=112/2-9-12, (min. 0-1-8), 3=112/2-9-12, (min. 0-1-8)
Max Horiz 1=29 (LC 11)
Max Uplift 1=-8 (LC 12), 3=-8 (LC 13)
Max Grav 1=131 (LC 18), 3=131 (LC 19)

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

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

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 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 3-06-00 tall by 2-00-00 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 8 lb uplift at joint 1 and 8 lb uplift at joint 3.
- 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.

LOAD CASE(S) Standard

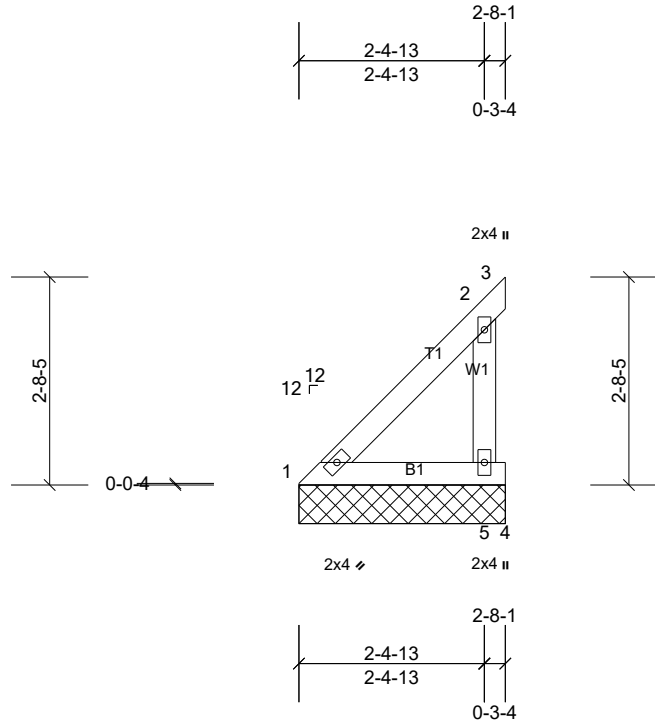
Job 20100130-B	Truss V02B	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:29.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 2-8-1 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS

All bearings 2-8-1.
(lb) - Max Horiz 1=91 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 3 except 4=137 (LC 18),
5=133 (LC 12)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 3, 4 except 5=415 (LC 18)

FORCES

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

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone;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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=137, 5=133.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

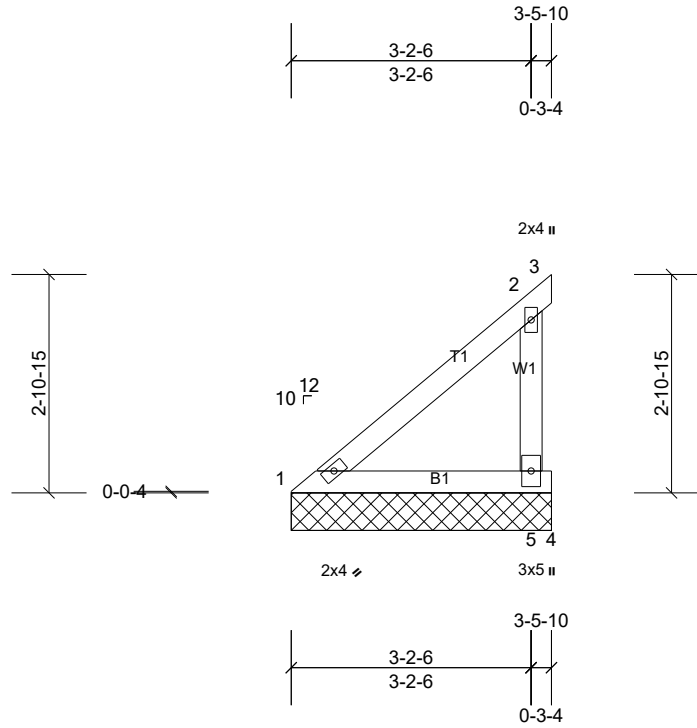
Job 20100130-B	Truss V03	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:30.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 14 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 3-5-10 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS All bearings 3-5-10.

(lb) - Max Horiz 1=100 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) except 3=-193 (LC 18),
 4=-233 (LC 18), 5=-178 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 3, 4 except 5=684 (LC 18)

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

WEBS 2-5=-363/402

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone;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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 4, 192 lb uplift at joint 3 and 177 lb uplift at joint 5.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

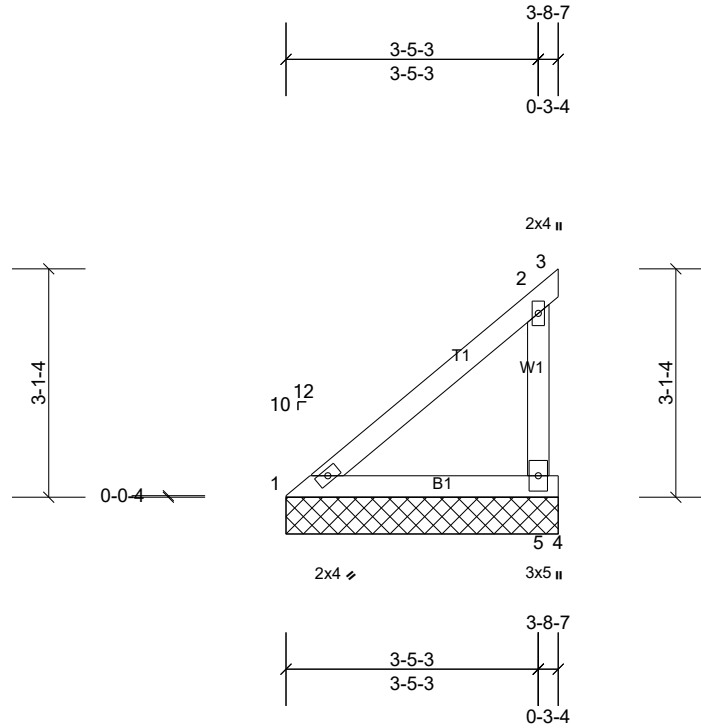
Job 20100130-B	Truss V03A	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:31.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-8-7 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS

All bearings 3-8-7.
(lb) - Max Horiz 1=107 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) except 3=-235 (LC 18),
4=-268 (LC 18), 5=-203 (LC 12)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 3, 4 except 5=781 (LC 18)

FORCES

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

WEBS 2-5=-420/459

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 267 lb uplift at joint 4, 235 lb uplift at joint 3 and 202 lb uplift at joint 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.

LOAD CASE(S) Standard

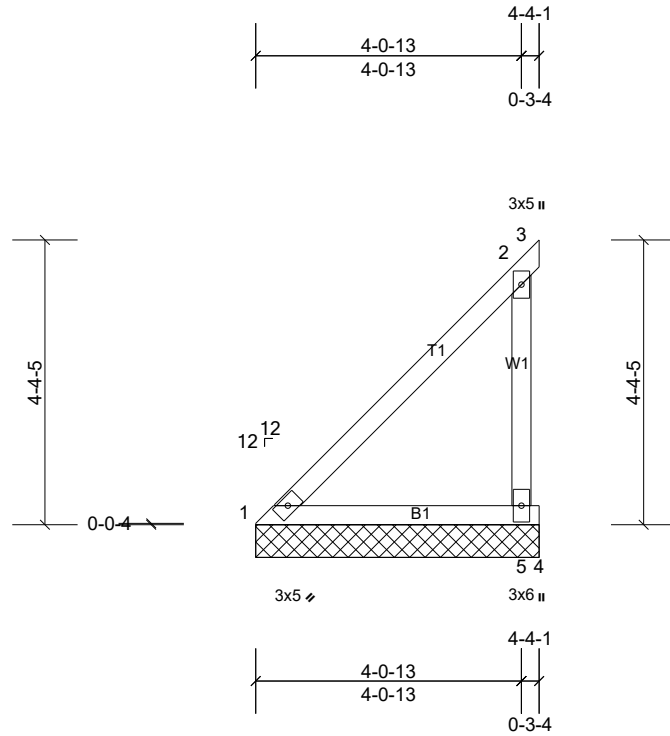
Job 20100130-B	Truss V04	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:35.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 20 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 4-4-1 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS

All bearings 4-4-1.
 (lb) - Max Horiz 1=152 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) except 3=368 (LC 18),
 4=378 (LC 18), 5=357 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 3, 4 except 5=1086 (LC 18)

FORCES

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

TOP CHORD 2-3=280/307
 WEBS 2-5=601/741

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 377 lb uplift at joint 4, 367 lb uplift at joint 3 and 356 lb uplift at joint 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.

LOAD CASE(S) Standard

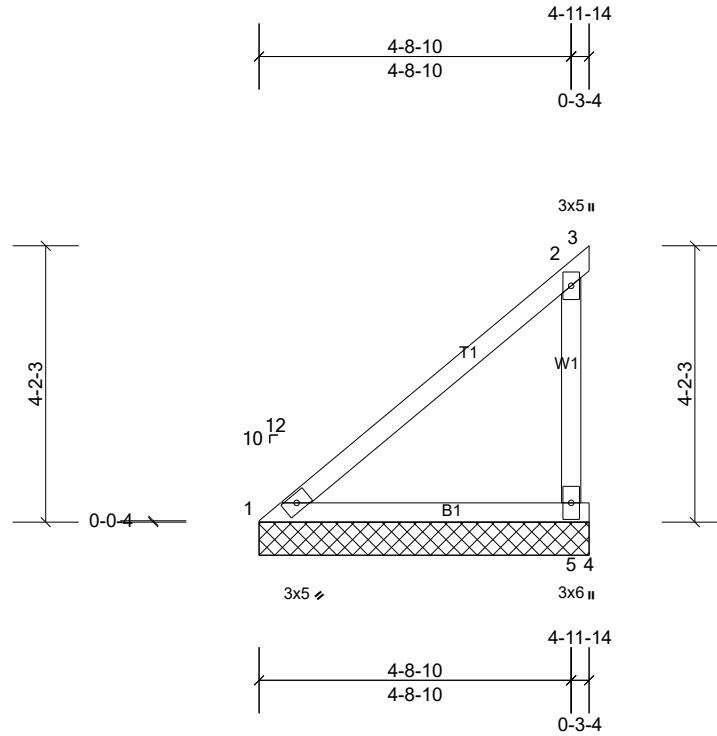
Job 20100130-B	Truss V05	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:34.8

Loading	(psf)	Spacing	2-0-0	CSI	0.36	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.41	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horiz(TL)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 4-11-14 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS

All bearings 4-11-14.
(lb) - Max Horiz 1=146 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) except 3=-538 (LC 18),
4=-488 (LC 18), 5=-370 (LC 12)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 3, 4 except 5=1414 (LC 18)

FORCES

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

TOP CHORD 2-3=-362/340
WEBS 2-5=-807/821

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 488 lb uplift at joint 4, 537 lb uplift at joint 3 and 369 lb uplift at joint 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.

LOAD CASE(S) Standard

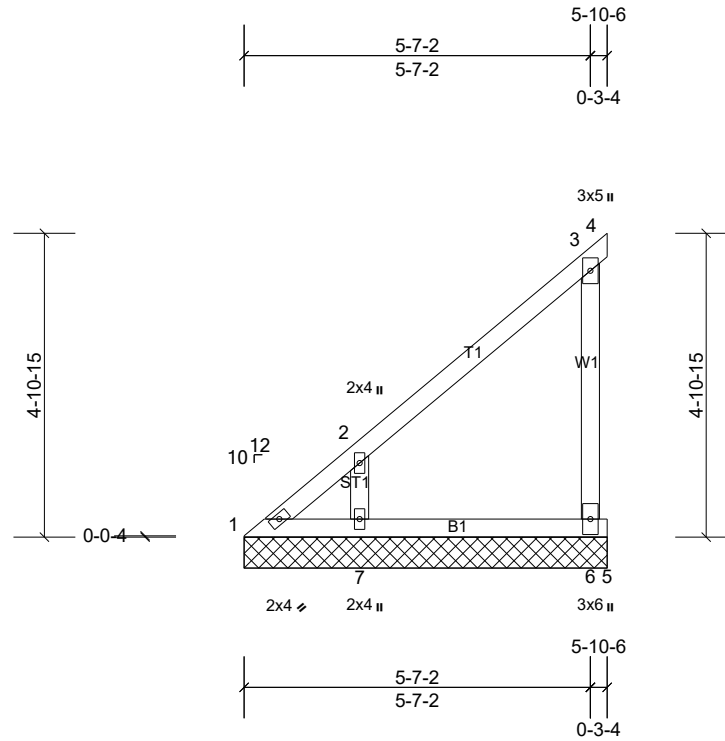
Job 20100130-B	Truss V05A	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:37.2

Loading	(psf)	Spacing	2-0-0	CSI	0.25	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 27 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-10-6 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS All bearings 5-10-6.

(lb) - Max Horiz 1=173 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 4=-287 (LC 18),
 5=-172 (LC 5), 6=-172 (LC 12), 7=-114 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 4, 5 except 6=650 (LC 18), 7=379 (LC 18)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-453/205
 WEBS 2-7=-349/406, 3-6=-504/559

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone;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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=172, 4=286, 7=113, 6=171.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

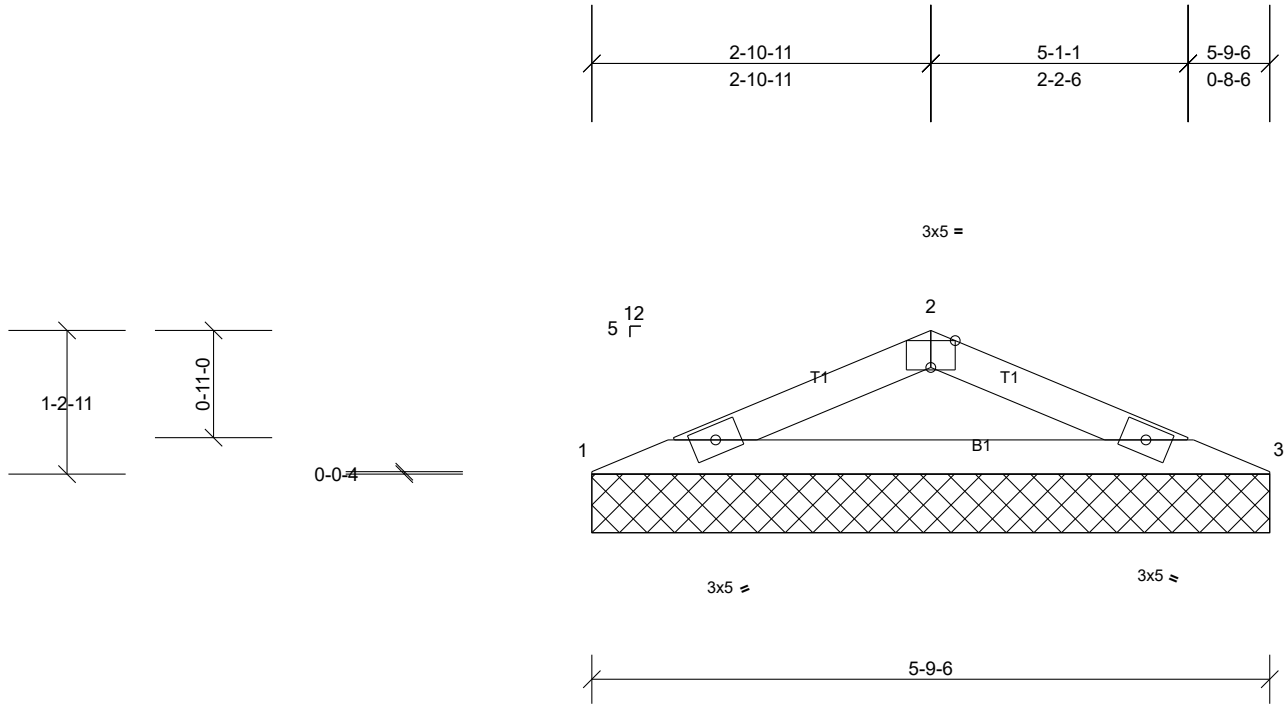
Job 20100130-B	Truss V05B	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:19.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 20.0)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-9-6 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=231/5-9-6, (min. 0-1-8), 3=231/5-9-6, (min. 0-1-8)
Max Horiz 1=17 (LC 12)
Max Uplift 1=-24 (LC 12), 3=-24 (LC 13)
Max Grav 1=265 (LC 18), 3=265 (LC 19)

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

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

TOP CHORD 1-2=-535/230, 2-3=-316/171
BOT CHORD 1-3=-199/483

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 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 3-06-00 tall by 2-00-00 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 24 lb uplift at joint 1 and 24 lb uplift at joint 3.
- 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.

LOAD CASE(S) Standard

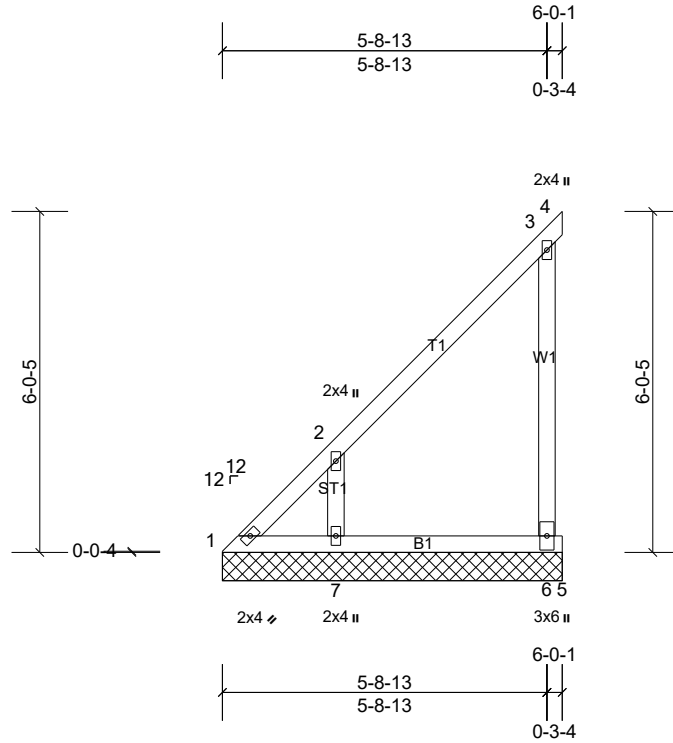
Job 20100130-B	Truss V06	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:40.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 31 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6'-0-0 oc purlins.
 Rigid ceiling directly applied or 10'-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 6-0-1.
 (lb) - Max Horiz 1=213 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 4=-283 (LC 18),
 5=-172 (LC 5), 6=-218 (LC 12), 7=-149 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 4, 5 except 6=654 (LC 18), 7=392 (LC 18)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-428/205
 WEBS 2-7=-353/339, 3-6=-509/460

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 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'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=171, 4=283, 7=149, 6=217.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

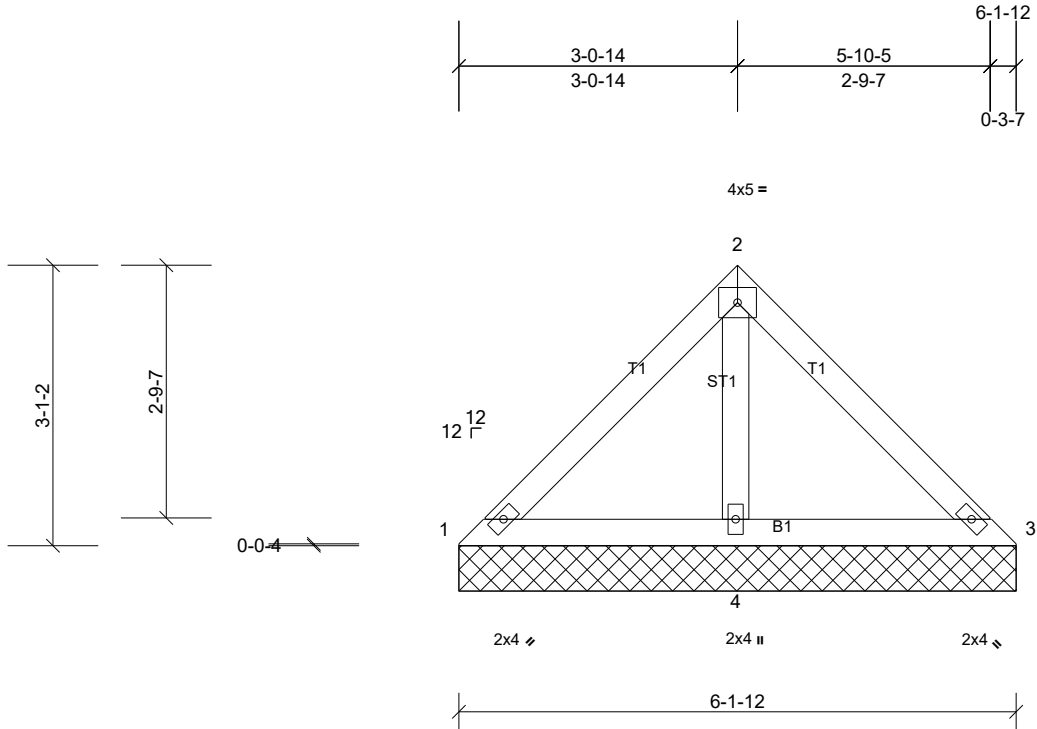
Job 20100130-B	Truss V06A	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:25.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 20.0)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr Code	YES	WB	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	IRC2018/TPI2014		Matrix-MP								
										Weight: 24 lb	FT = 20%	

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

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-1-12 oc purlins.
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 (lb/size) 1=49/6-1-12, (min. 0-1-8), 3=51/6-1-12, (min. 0-1-8),
4=392/6-1-12, (min. 0-1-8)
Max Horiz 1=68 (LC 9)
Max Uplift 4=71 (LC 12)
Max Grav 1=104 (LC 18), 3=107 (LC 19), 4=420 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=283/172

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 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 3-06-00 tall by 2-00-00 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 71 lb uplift at joint 4.
- 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.

LOAD CASE(S) Standard

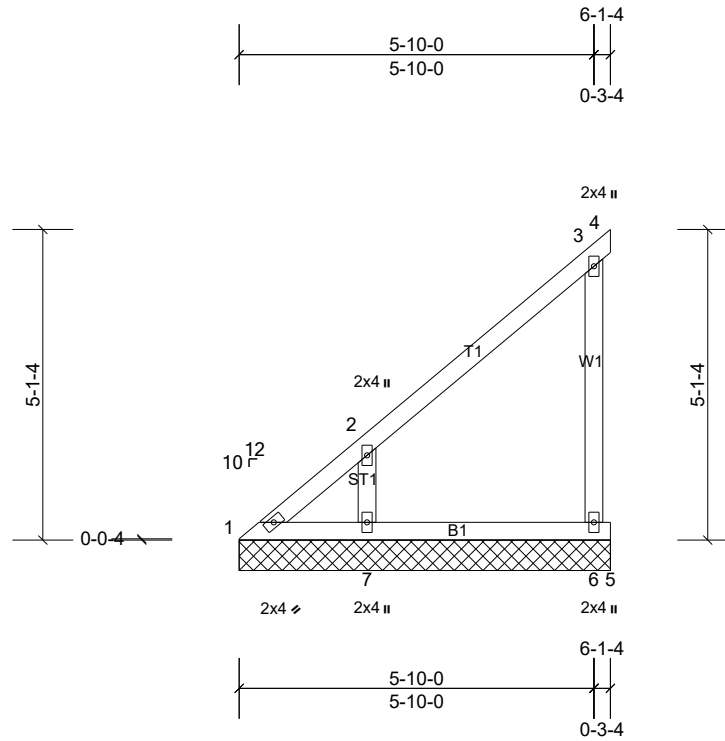
Job 20100130-B	Truss V06B	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:37.9

Loading	(psf)	Spacing	2-0-0	CSI	0.26	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6'-0-0 oc purlins.
 Rigid ceiling directly applied or 10'-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 6-1-4.
 (lb) - Max Horiz 1=180 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 4=-284 (LC 18),
 5=-171 (LC 5), 6=-169 (LC 12), 7=-117 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 4, 5 except 6=645 (LC 18), 7=381 (LC 18)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-316/160
 WEBS 2-7=-339/267, 3-6=-502/373

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 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'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=171, 4=283, 7=117, 6=168.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

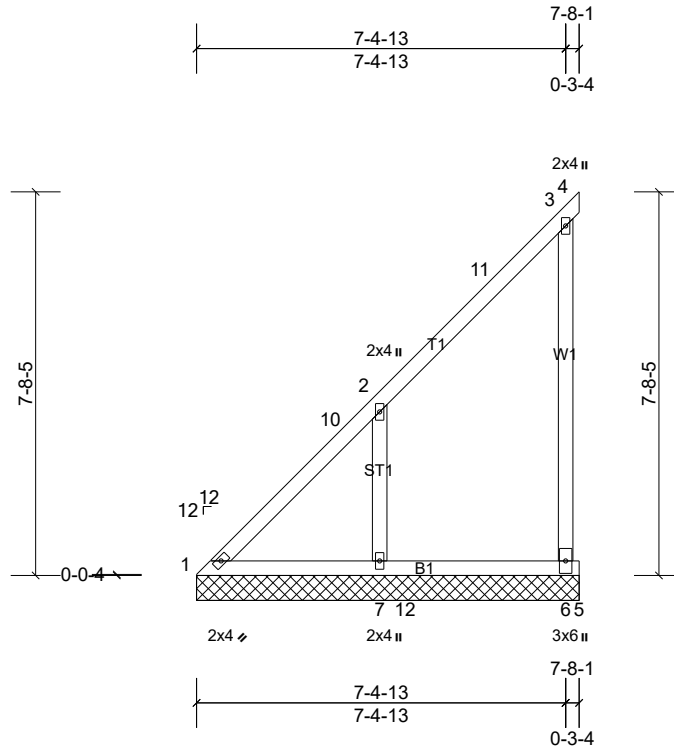
Job 20100130-B	Truss V07	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:46.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horiz(TL)	-0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 42 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

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

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

REACTIONS All bearings 7-8-1.

(lb) - Max Horiz 1=256 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 4=-241 (LC 18),
 5=-234 (LC 20), 6=-112 (LC 12), 7=-194 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 4, 5 except 6=647 (LC 3), 7=472 (LC 21)

FORCES

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

TOP CHORD 1-10=-482/180, 2-10=-459/208
 WEBS 2-7=-358/373, 3-6=-461/469

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 3-5-6, Exterior(2R) 3-5-6 to 7-8-5 zone; 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=234, 4=241, 7=194, 6=112.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

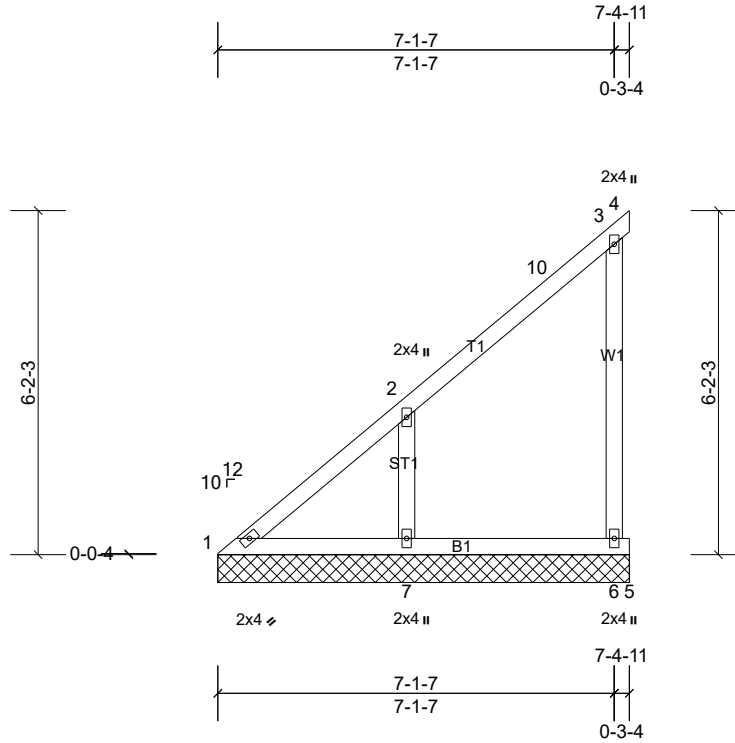
Job 20100130-B	Truss V07A	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Carter Components - Sanford, Sanford, NC, user

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Scale = 1:41.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

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

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

REACTIONS All bearings 7-4-11.

(lb) - Max Horiz 1=206 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) except 5=-148 (LC 5),
 7=-156 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=302 (LC 18), 7=456 (LC 18)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-295/158
 WEBS 2-7=-373/280

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 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 148 lb uplift at joint 5 and 156 lb uplift at joint 7.
- 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.

LOAD CASE(S) Standard

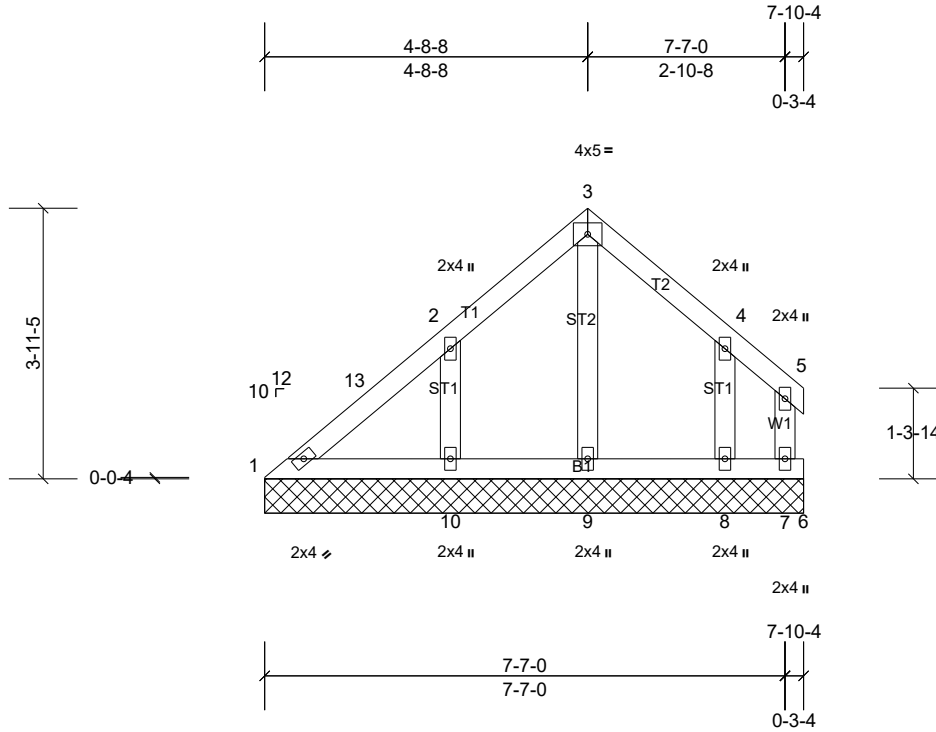
Job 20100130-B	Truss V07B	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:33.6

Loading	(psf)	Spacing	2-0-0	CSI	0.12	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 38 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

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

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

REACTIONS All bearings 7-10-4.

- (lb) - Max Horiz 1=88 (LC 12)
- Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7, 8 except 10=108 (LC 12)
- Max Grav All reactions 250 (lb) or less at joint(s) 1, 6, 7, 8, 9 except 10=317 (LC 18)

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

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-5 to 2-8-12, Corner(3R) 2-8-12 to 4-8-12, Corner(3E) 4-8-12 to 7-7-4 zone; 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 7 except (jt=lb) 10=107.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

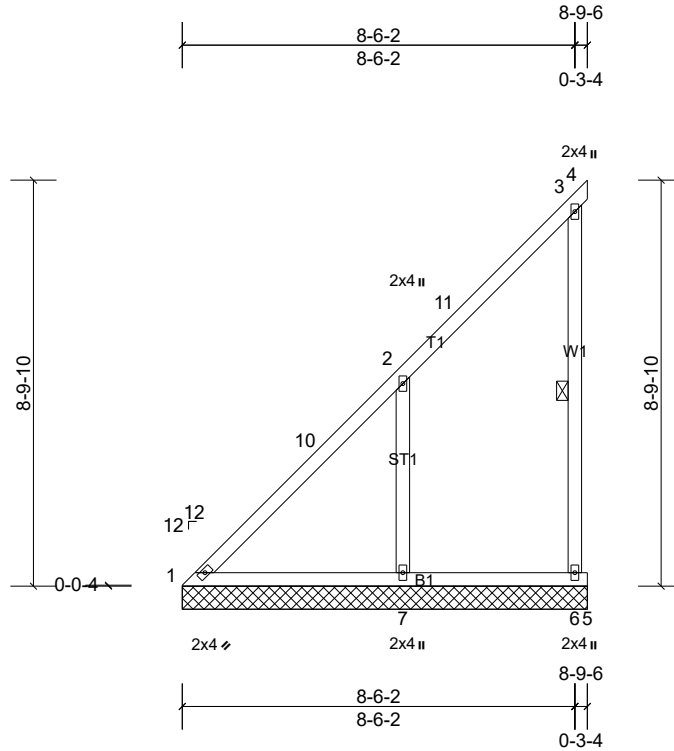
Job 20100130-B	Truss V08	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:50

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	-0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 49 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 1 Row at midpt 3-6

REACTIONS All bearings 8-9-6.

(lb) - Max Horiz 1=284 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 6 except 4=-195 (LC 18),
 5=-191 (LC 20), 7=-225 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 4, 5 except 6=529 (LC 3), 7=571 (LC 21)

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

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-10=-477/184, 2-10=-446/219
 WEBS 2-7=-393/382, 3-6=-405/378

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 4-6-12, Exterior(2R) 4-6-12 to 8-9-10 zone;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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 5=190, 4=195, 7=225.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

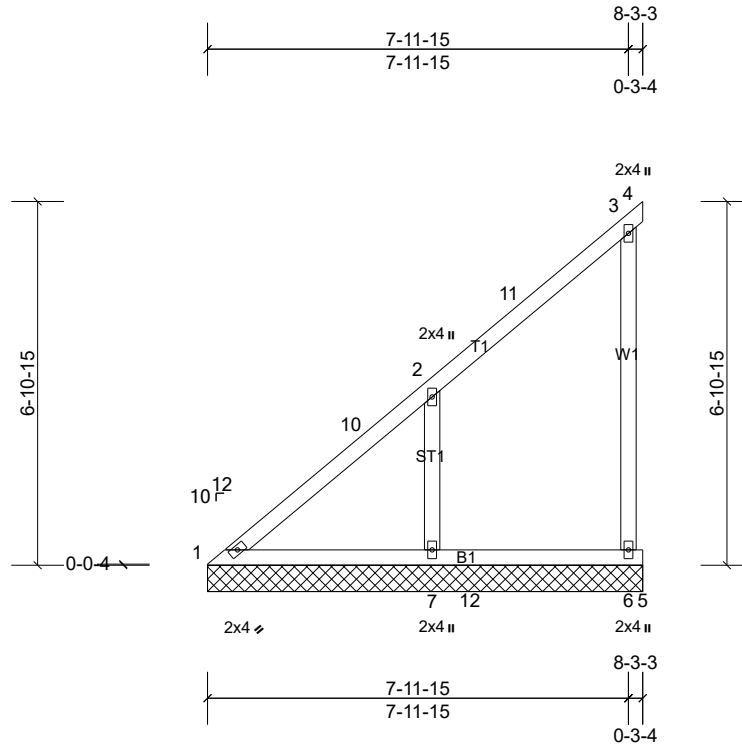
Job 20100130-B	Truss V08A	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:43.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.33	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 41 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

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

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

REACTIONS

All bearings 8-3-3.
 (lb) - Max Horiz 1=225 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 6 except 4=-221 (LC 18),
 5=-211 (LC 20), 7=-163 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 4, 5 except 6=581 (LC 3), 7=502 (LC 21)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-10=-337/140, 2-10=-313/169
 WEBS 2-7=-365/283, 3-6=-428/313

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-0-9, Exterior(2R) 4-0-9 to 8-3-8 zone; 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 5=210, 4=220, 7=162.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

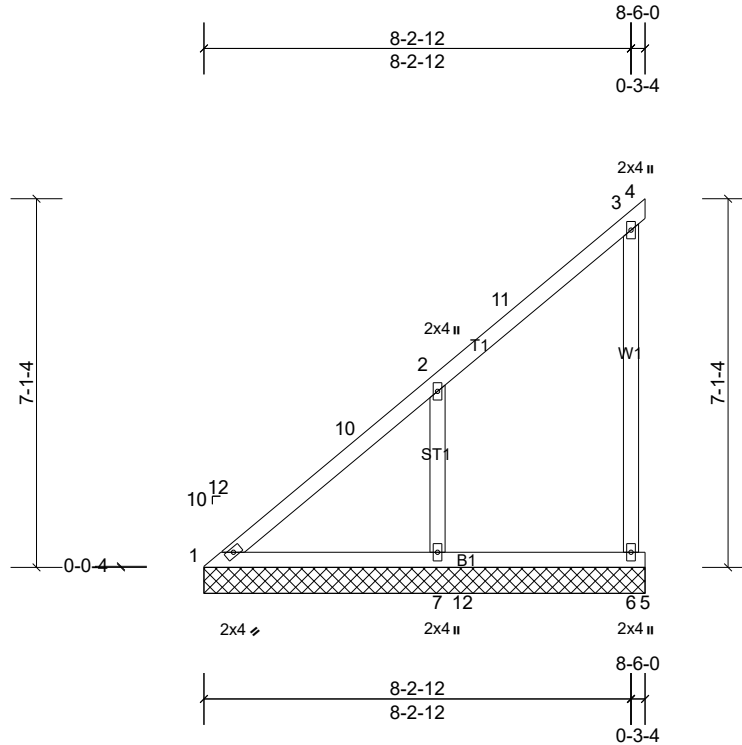
Job 20100130-B	Truss V08B	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:44.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.34	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 43 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6'-0-0 oc purlins.
 Rigid ceiling directly applied or 10'-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 8-6-0.

(lb) - Max Horiz 1=230 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 6 except 4=-210 (LC 18),
 5=-204 (LC 20), 7=-168 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 4, 5 except 6=557 (LC 3), 7=525 (LC 21)

FORCES

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

TOP CHORD 1-10=-337/141, 2-10=-311/171
 WEBS 2-7=-373/286, 3-6=-415/299

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-3-7, Exterior(2R) 4-3-7 to 8-6-5 zone; 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4'-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'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 5=203, 4=210, 7=167.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

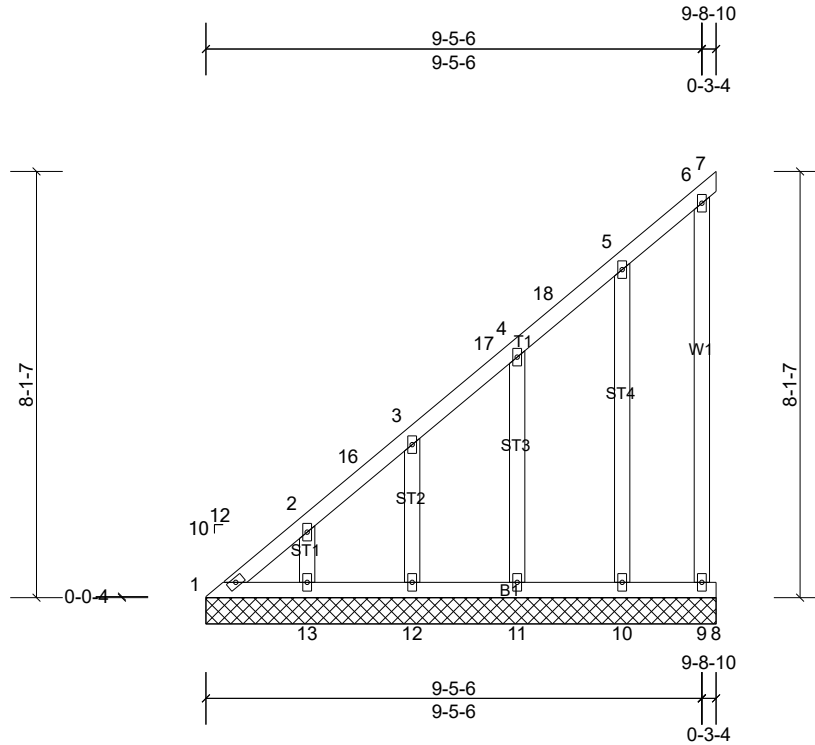
Job 20100130-B	Truss V09	Truss Type Valley	Qty 2	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:43.9

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	-0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 65 lb	FT = 20%

LUMBER

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

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.

REACTIONS All bearings 9-8-10.

(lb) - Max Horiz 1=282 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7, 8, 9, 10, 11, 12, 13
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 7, 8, 9, 10, 11, 12, 13

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

TOP CHORD 1-2=-525/244, 2-16=-424/185, 3-16=-416/198, 3-17=-307/120, 4-17=-294/142

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-5 to 3-0-5, Exterior(2N) 3-0-5 to 6-8-14, Corner(3E) 6-8-14 to 9-8-14 zone; 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 1, 7, 10, 11, 12, 13, 9.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

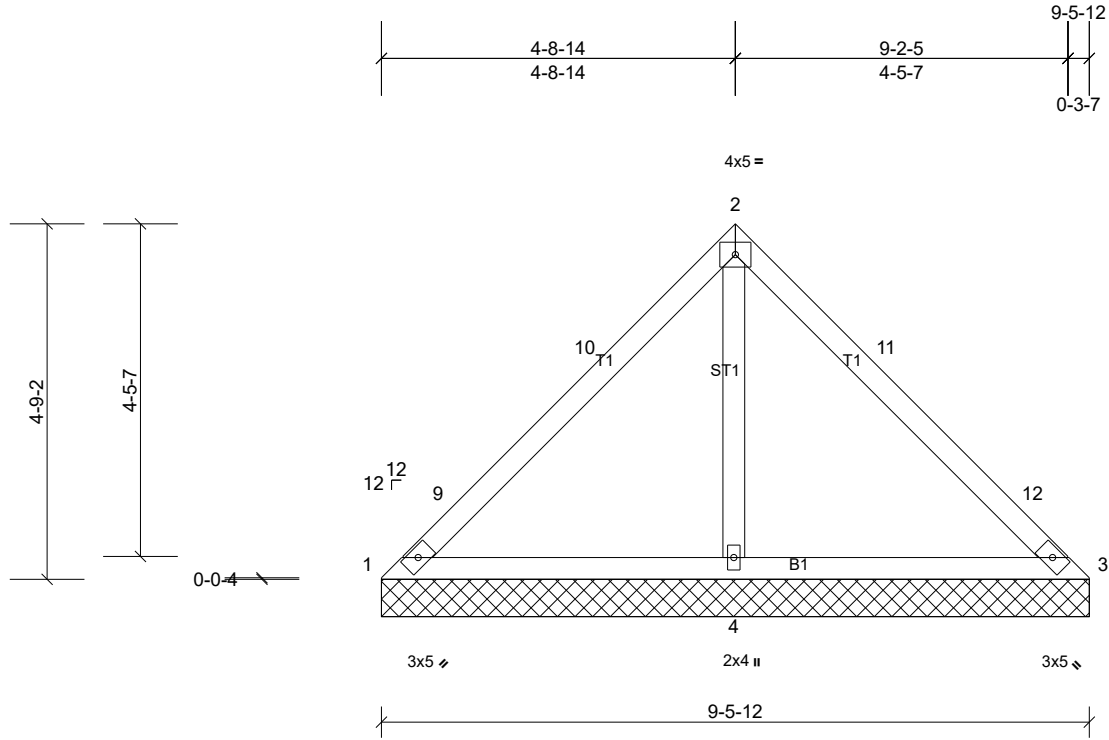
Job 20100130-B	Truss V09A	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:30.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.43	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 39 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 9-5-12 oc purlins.
 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 (lb/size) 1=36/9-5-12, (min. 0-1-8), 3=39/9-5-12, (min. 0-1-8),
 4=683/9-5-12, (min. 0-1-8)
 Max Horiz 1=-107 (LC 8)
 Max Uplift 1=-41 (LC 19), 3=-38 (LC 18), 4=-139 (LC 12)
 Max Grav 1=96 (LC 18), 3=100 (LC 19), 4=749 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-10=-112/350, 2-11=-110/346
 WEBS 2-4=-571/320

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Exterior(2R) 3-0-4 to 6-6-0, Exterior(2E) 6-6-0 to 9-6-0 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 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 3-06-00 tall by 2-00-00 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 41 lb uplift at joint 1, 38 lb uplift at joint 3 and 139 lb uplift at joint 4.
- 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.

LOAD CASE(S) Standard

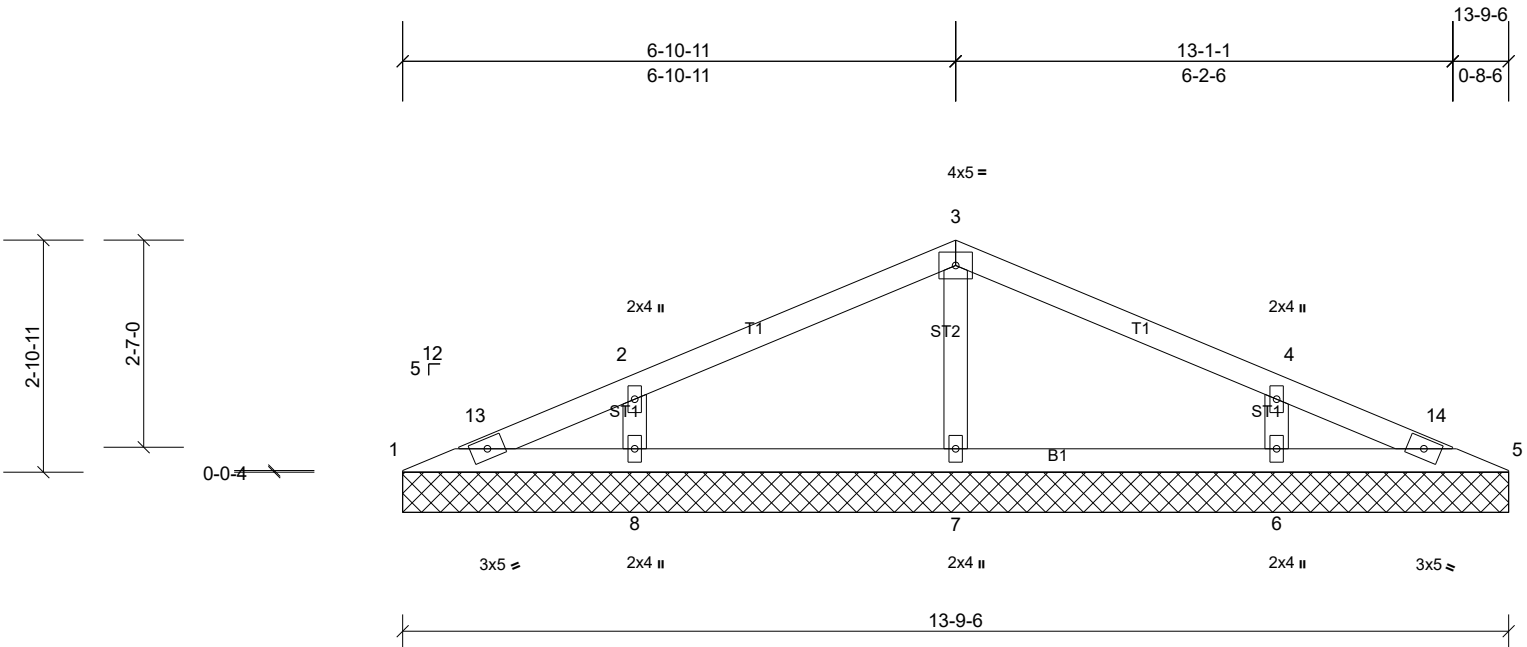
Job 20100130-B	Truss V13	Truss Type Valley	Qty 1	Ply 1	1 SouthPark II-Roof-Miller Job Reference (optional)
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Scale = 1:28.7

Loading	(psf)	Spacing	2-0-0	CSI	0.29	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
(Roof Snow = 20.0)		Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 46 lb	FT = 20%

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

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 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 13-9-6.
 (lb) - Max Horiz 1=43 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 6, 8
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=452 (LC 19), 7=318 (LC 18), 8=452 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-380/200, 4-6=-380/200

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-10 to 2-11-5, Exterior(2N) 2-11-5 to 3-11-5, Corner(3R) 3-11-5 to 9-11-5, Exterior(2N) 9-11-5 to 10-10-0, Corner(3E) 10-10-0 to 13-10-0 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 7-16; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 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) 1, 5, 8, 6.
 - 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.

LOAD CASE(S) Standard