



*Fédération
Aéronautique
Internationale*



Known Proposals for 2014

**Advanced, Unlimited and
Yak-52/Intermediate Power Categories**

**Advanced and Unlimited
Glider Categories**

Introduction

The deadline for the submission of Known sequence proposals to CIVA has now passed. Those proposals were due by 1 August 2013 and the Delegates of Great Britain, Finland, Russia, Norway, France, Germany, and the USA responded. Our thanks to all of those Delegates.

This package of Known proposals were sent to the CIVA Known Analysis Working Groups which are made up of highly experienced competition pilots and coaches including past World Aerobatic Champions. They have evaluated all of the sequences for flyability, suitability for the category, and safety and reported their findings back to CIVA. Each sequence was ranked by the evaluator and those which have safety issues will be eliminated.

Those evaluations were submitted by 1 October 2013 and the analyses were assembled into a single document and provided to all of the CIVA Delegates as a part of their agenda packages for CIVA's plenary meeting in November 2013. This document is available on the CIVA website in the "Documents" and "Meetings" section.

Please note that a previous version of the Knowns was published in August. This document replaces that one as three Known sequence proposals were subsequently altered with the agreement of the Delegates concerned. The modifications were minor and were made at the suggestion of evaluators to make the sequences better. These were Advanced F (now Fv2) and Unlimited B and E (now Bv2 and Ev2).

A final vote will be taken at the plenary on the Knowns proposed for each category and announced to the aerobatic community after the meeting.

The Glider Knowns are also presented in this report. The CIVA Glider Aerobatics Sub-Committee (GASC) evaluates these sequences and this review took place in Finland in July 2013 during the World Glider Aerobatic Championships. The GASC's recommendations to CIVA on which Knowns should be adopted will be presented in a separate report.

Members of the international aerobatics community are encouraged to review these Knowns, fly them, and provide your input to your national Delegate to CIVA so they can have the benefit of your input before voting in November.

*Michael R. Heuer
Chairman, CIVA Rules Sub-Committee
Collierville, TN USA
23 October 2013*



PROPOSAL 'A'		2014	FORM B
Pilot ID #	Unlimited Known		Flight #

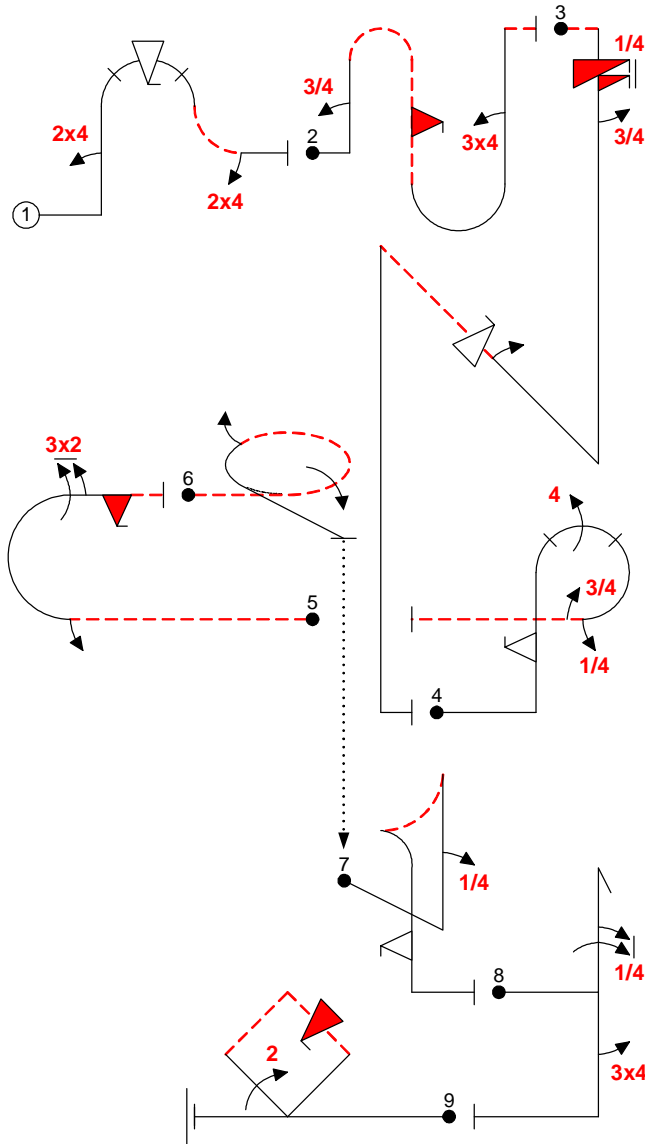
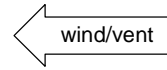


Fig 1	8.6.10.1	12	37
	9.4.1.2	9	
	9.9.3.4	11	
	9.4.3.2	5	
Fig 2	8.8.5.1	21	56
	9.1.1.3	10	
	9.10.5.2	13	
	9.4.1.3	12	
Fig 3	1.3.11.4	20	53
	9.12.1.5	6	
	9.1.5.3	6	
	9.1.2.2	6	
	9.9.7.4	15	
Fig 4	8.6.2.1	12	46
	9.9.1.2	15	
	9.4.3.4	11	
	9.1.3.1	2	
	9.1.3.3	6	
Fig 5	7.2.3.2	7	38
	9.1.3.2	4	
	9.2.3.6	12	
	9.10.8.2	15	
Fig 6	2.3.2.4	37	37
Fig 7	6.2.2.1	15	32
	9.1.1.1	6	
	9.9.5.2	11	
Fig 8	5.2.1.1	17	39
	9.1.1.5	14	
	9.4.5.3	8	
Fig 9	7.4.5.1	15	39
	9.2.2.4	11	
	9.10.4.4	13	
Total K = 377			

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Pilot

ACC



PROPOSAL 'Bv2'		2014	FORM B
Pilot ID #	Unlimited Known		Flight #

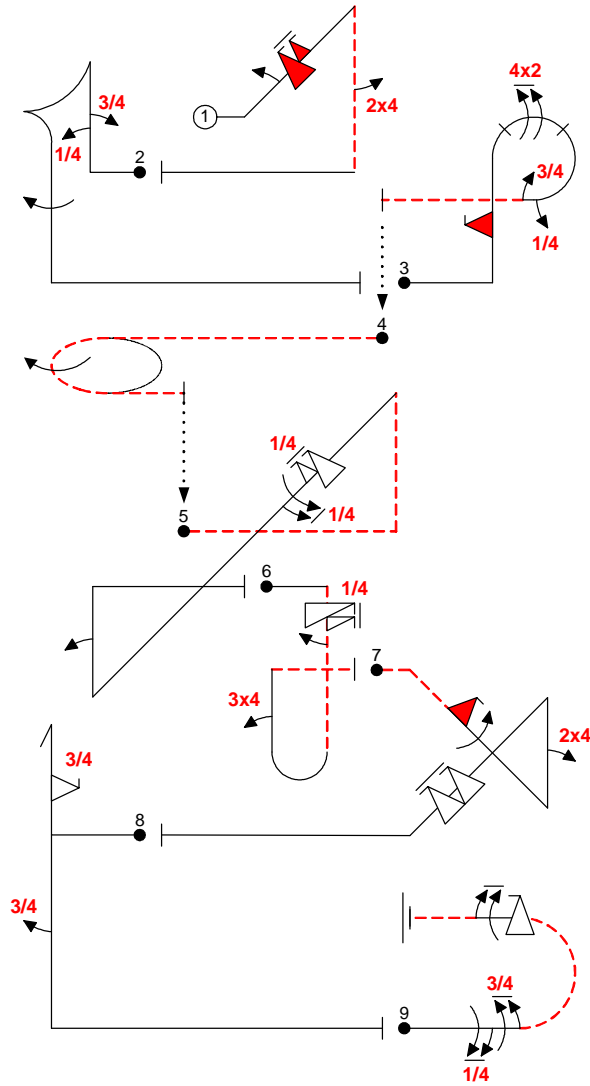
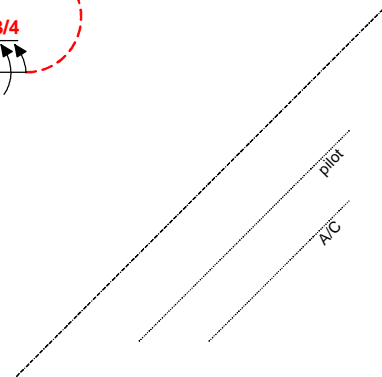


Fig 1	1.2.1.1	13	43
	9.1.2.2	6	
	9.10.2.6	19	
	9.4.5.2	5	
Fig 2	6.2.1.1	15	39
	9.1.1.1	6	
	9.1.1.3	10	
	9.1.5.4	8	
Fig 3	8.6.2.1	12	54
	9.10.6.2	19	
	9.2.3.8	15	
	9.1.3.1	2	
	9.1.3.3	6	
Fig 4	2.2.2.4	29	29
Fig 5	1.3.10.2	24	54
	9.9.4.5	13	
	9.1.4.5	9	
	9.1.1.2	8	
Fig 6	8.4.4.3	14	34
	9.11.1.5	4	
	9.1.5.2	4	
	9.4.1.3	12	
Fig 7	1.3.6.4	19	66
	9.10.4.2	13	
	9.1.4.4	8	
	9.4.1.2	9	
	9.9.4.8	17	
Fig 8	5.2.1.1	17	38
	9.9.1.3	15	
	9.1.5.3	6	
Fig 9	7.2.4.1	8	51
	9.1.3.5	9	
	9.1.3.7	11	
	9.9.8.4	13	
	9.1.3.6	10	
Total K = 408			

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PROPOSAL 'C'		2014	FORM B
Pilot ID #	Unlimited Known		Flight #

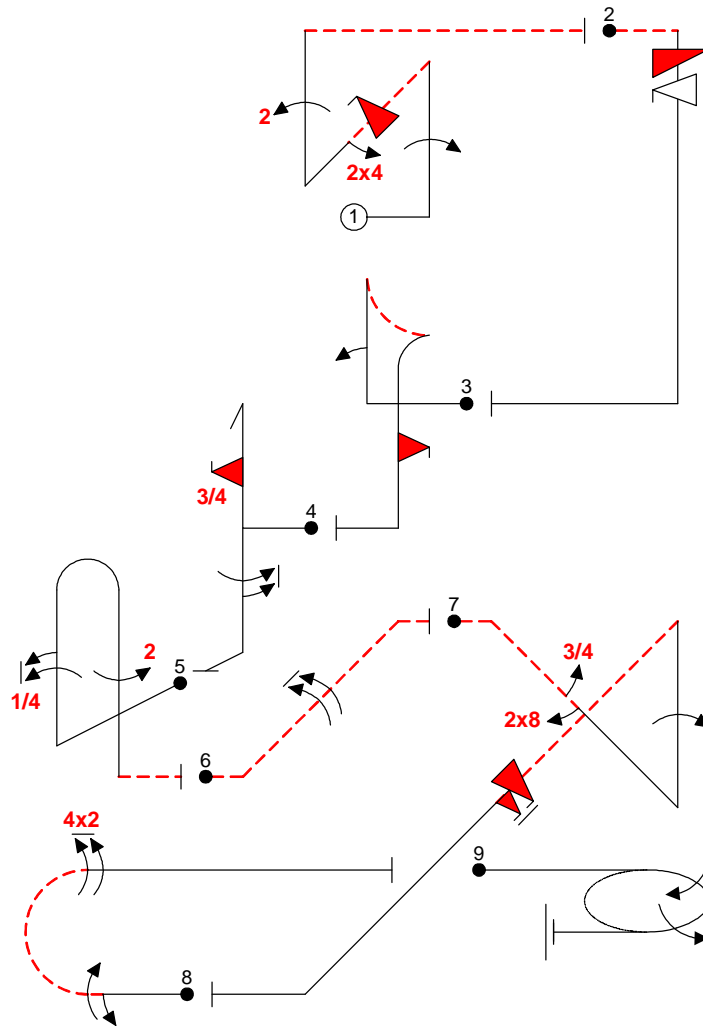
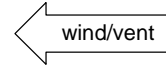
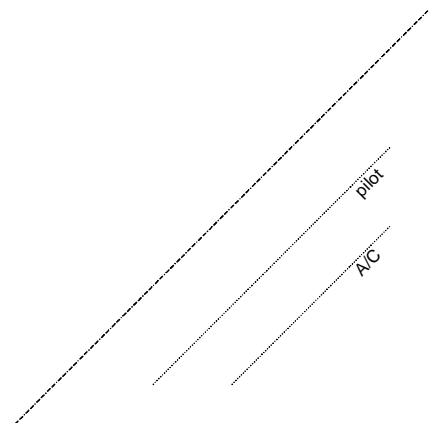


Fig 1	1.3.11.1	20	63
	9.1.1.4	12	
	9.10.4.4	13	
	9.4.4.2	5	
	9.2.1.4	13	
Fig 2	1.1.7.4	9	27
	9.12.1.4	7	
	9.9.5.4	11	
Fig 3	6.2.2.1	15	36
	9.1.1.2	8	
	9.10.5.2	13	
Fig 4	5.2.1.1	17	46
	9.10.6.3	19	
	9.1.5.6	10	
Fig 5	8.4.2.1	14	37
	9.1.1.5	14	
	9.2.5.4	9	
Fig 6	1.1.2.2	8	23
	9.1.2.8	15	
Fig 7	1.3.4.4	18	55
	9.1.4.3	6	
	9.8.4.1	3	
	9.1.1.4	12	
	9.10.4.6	16	
Fig 8	7.2.3.1	8	35
	9.1.3.2	4	
	9.1.3.4	8	
	9.2.3.8	15	
Fig 9	2.2.6.1	25	25
Total K = 347			

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PROPOSAL 'D'		2014	FORM B
Pilot ID #	Unlimited Known		Flight #

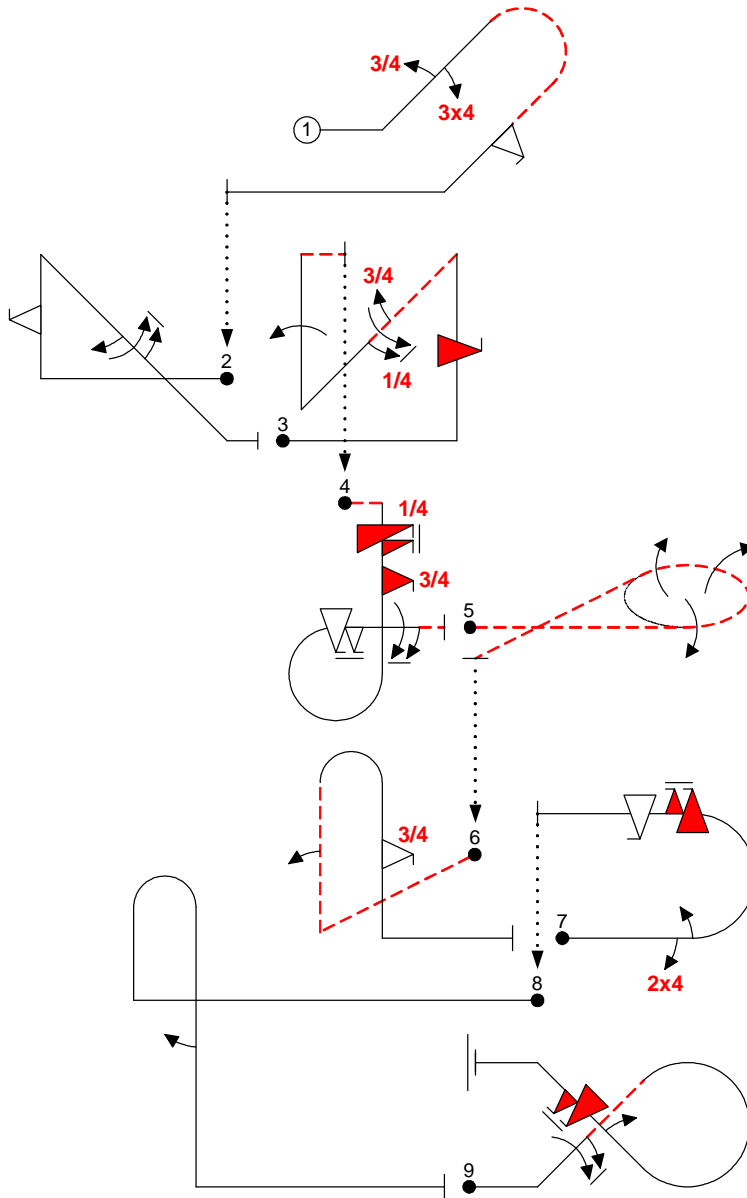
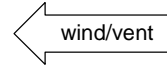
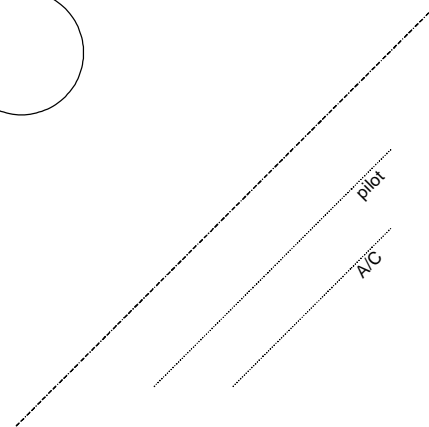


Fig 1	8.4.18.1	14	45
	9.1.2.3	8	
	9.4.2.3	10	
	9.9.9.2	13	
Fig 2	1.2.6.1	14	43
	9.9.1.2	15	
	9.1.4.2	4	
	9.1.4.6	10	
Fig 3	1.3.11.1	20	66
	9.10.6.4	19	
	9.1.4.3	6	
	9.1.4.5	9	
	9.1.1.4	12	
Fig 4	8.6.1.4	12	55
	9.12.1.5	6	
	9.10.5.3	13	
	9.9.3.6	14	
	9.1.3.6	10	
Fig 5	2.3.4.4	34	34
Fig 6	8.4.4.2	14	33
	9.1.1.2	8	
	9.9.5.3	11	
Fig 7	7.2.2.1	6	45
	9.4.3.2	5	
	9.1.3.2	4	
	9.10.8.6	19	
	9.9.3.4	11	
Fig 8	8.4.1.1	13	17
	9.1.5.2	4	
Fig 9	7.3.2.1	14	51
	9.1.2.6	12	
	9.1.2.2	6	
	9.10.2.6	19	
Total K = 389			

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PROPOSAL 'Ev2'		2014	FORM B
Pilot ID #	Unlimited Known		Flight #

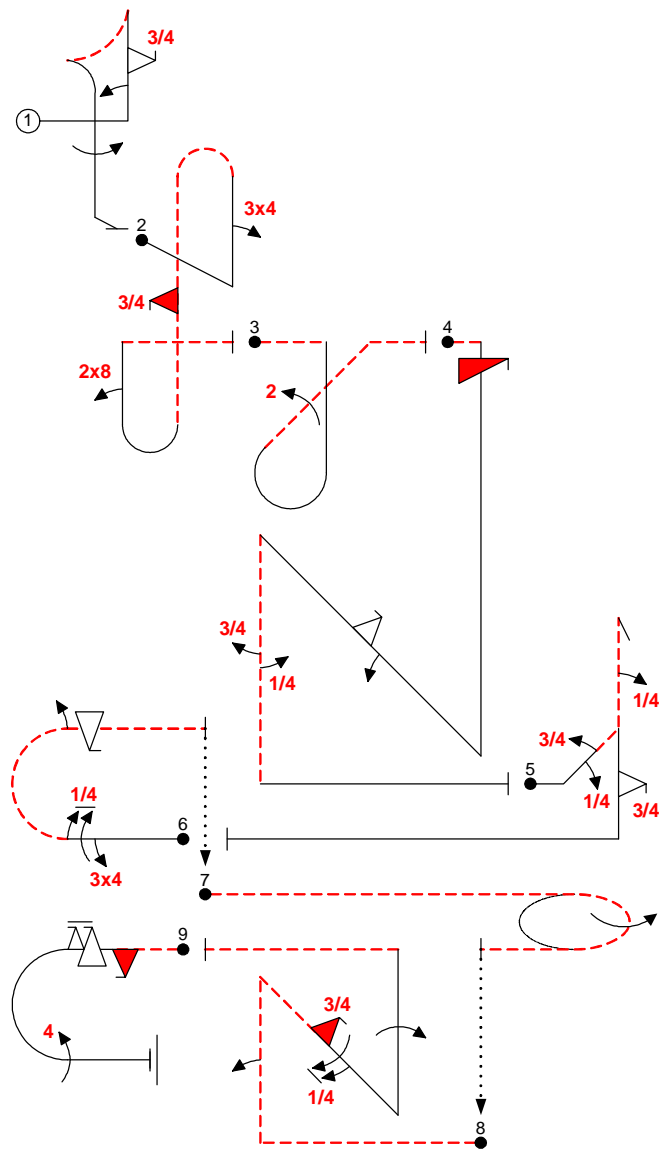
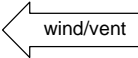
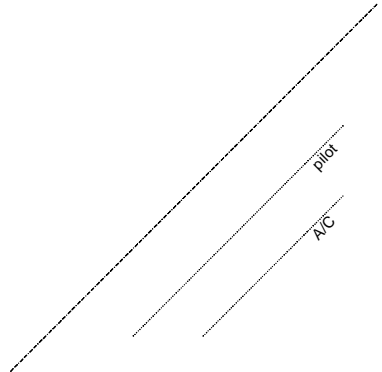


Fig 1	6.2.2.1	15	46
	9.1.1.2	8	
	9.9.1.3	15	
	9.1.5.4	8	
Fig 2	8.8.5.1	21	53
	9.4.1.3	12	
	9.10.5.3	13	
	9.8.1.1	7	
Fig 3	8.5.17.4	13	24
	9.2.2.4	11	
Fig 4	1.3.10.4	22	58
	9.12.1.4	7	
	9.1.2.2	6	
	9.9.7.2	15	
	9.1.5.3	6	
	9.1.5.1	2	
Fig 5	5.3.2.1	24	53
	9.1.2.1	4	
	9.1.2.3	8	
	9.1.1.1	6	
	9.9.5.3	11	
Fig 6	7.2.4.1	8	42
	9.4.3.3	8	
	9.1.3.5	9	
	9.1.3.2	4	
	9.9.8.4	13	
Fig 7	2.2.2.4	29	29
Fig 8	1.3.16.2	22	64
	9.1.1.2	8	
	9.10.4.3	13	
	9.1.4.5	9	
	9.1.1.4	12	
Fig 9	7.2.1.4	6	44
	9.10.3.2	13	
	9.9.3.6	14	
	9.4.3.4	11	
Total K = 413			

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PROPOSAL 'A'		2014	FORM B
Pilot ID #	Advanced Known		Flight #

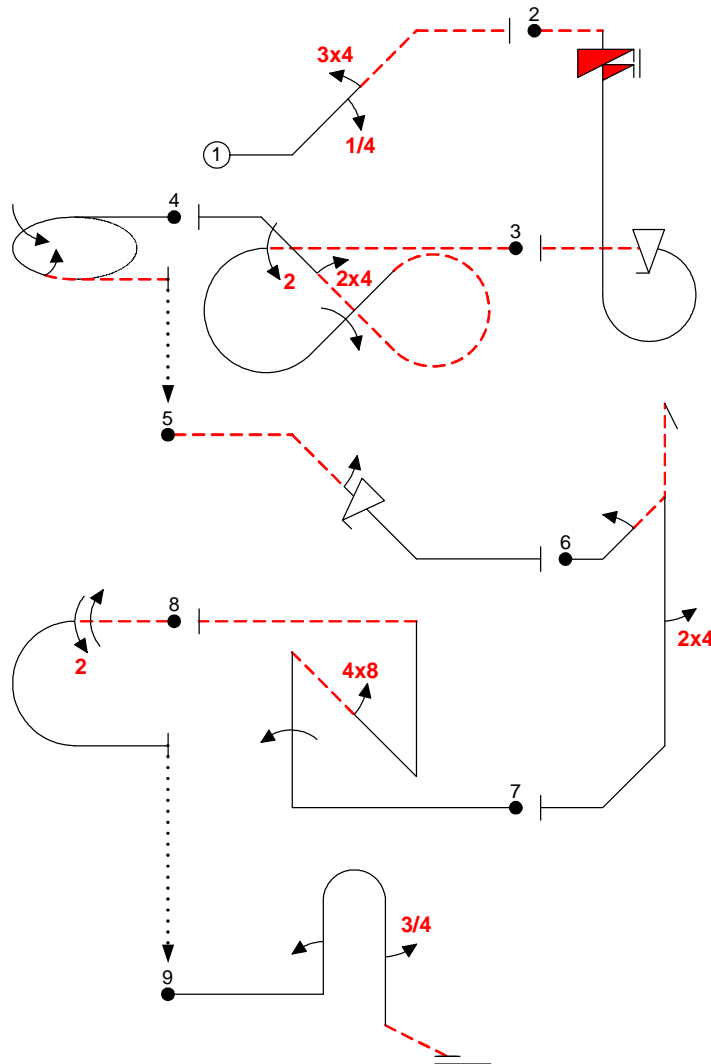
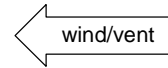
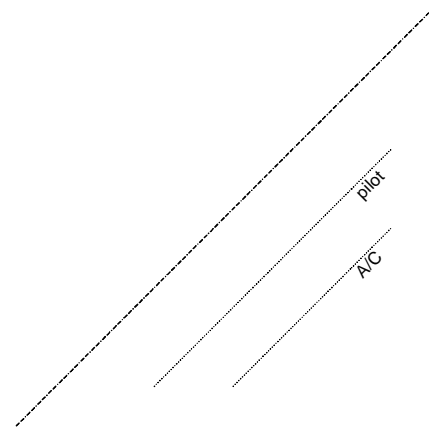


Fig 1	1.1.3.1 9.1.2.1 9.4.2.3	7 4 10	21
Fig 2	8.6.1.4 9.12.1.6 9.9.3.4	12 5 11	28
Fig 3	7.8.2.4 9.2.3.4 9.1.2.4 9.4.2.2	22 9 10 7	48
Fig 4	2.2.3.1	24	24
Fig 5	1.1.3.4 9.1.4.2 9.9.4.4	7 4 11	22
Fig 6	5.4.3.1 9.1.2.2 9.4.5.2	25 6 5	36
Fig 7	1.3.11.1 9.1.1.4 9.8.4.2	20 12 7	39
Fig 8	7.2.1.4 9.1.3.4 9.2.3.4	6 8 9	23
Fig 9	8.4.2.1 9.1.1.2 9.1.5.3	14 8 6	28
Total K = 269			

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PROPOSAL 'B'		2014	FORM B
Pilot ID #	Advanced Known		Flight #

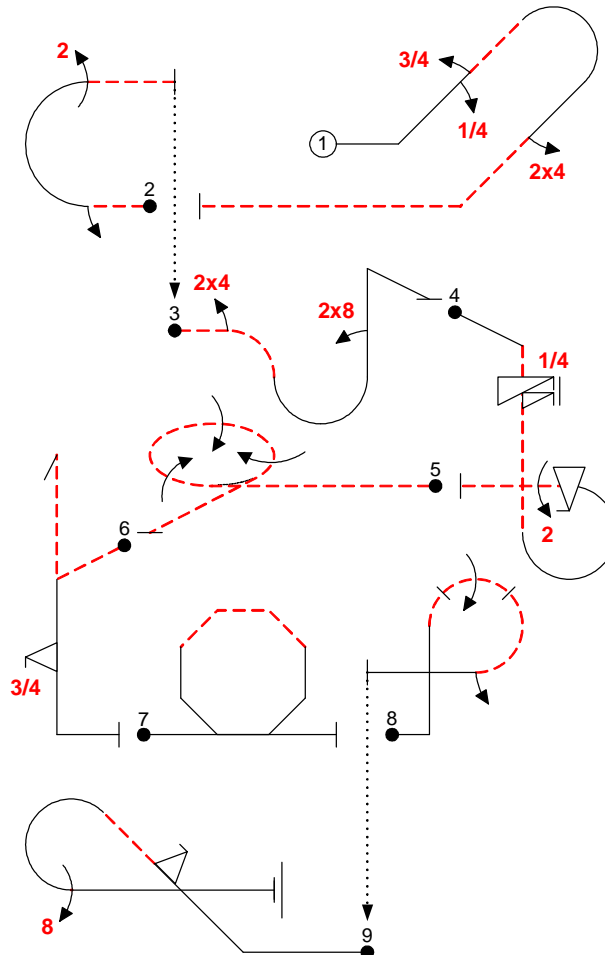
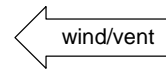
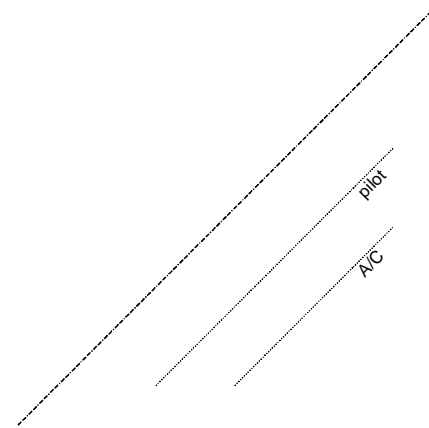


Fig 1	8.4.16.1	14	31
	9.1.2.1	4	
	9.1.2.3	8	
	9.4.4.2	5	
Fig 2	9.1.3.2	4	20
	7.2.3.2	7	
	9.2.3.4	9	
Fig 3	8.6.15.4	14	26
	9.4.3.2	5	
	9.8.1.1	7	
Fig 4	8.6.3.3	13	37
	9.11.1.5	4	
	9.9.3.4	11	
	9.2.3.4	9	
Fig 5	2.3.4.2	31	31
Fig 6	5.2.1.4	22	33
	9.9.5.3	11	
Fig 7	7.4.6.1	19	19
Fig 8	8.6.4.1	14	26
	9.1.3.4	8	
	9.1.3.2	4	
Fig 9	8.5.2.1	10	38
	9.9.2.2	13	
	9.8.3.4	15	
Total K = 261			

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PROPOSAL 'C'		2014	FORM B
Pilot ID #	Advanced Known		Flight #

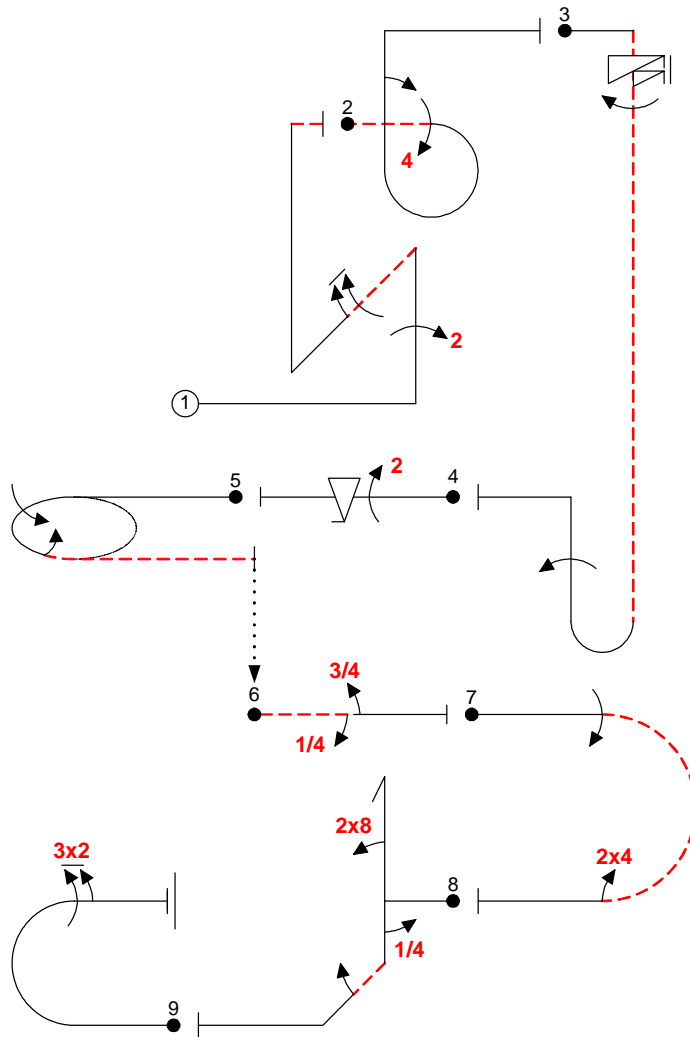
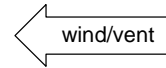
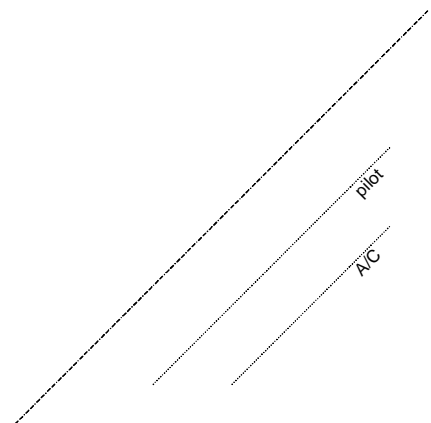


Fig 1	1.3.11.1 9.2.1.4 9.1.4.6	20 13 10	43
Fig 2	8.6.6.4 9.4.3.4 9.1.1.2	13 11 8	32
Fig 3	8.4.3.3 9.11.1.6 9.1.5.4 9.1.1.4	15 3 8 12	38
Fig 4	1.1.1.1 9.2.3.4 9.9.3.4	2 9 11	22
Fig 5	2.2.3.1	24	24
Fig 6	1.1.1.4 9.1.3.1 9.1.3.3	2 2 6	10
Fig 7	7.2.2.3 9.1.3.4 9.4.3.2	8 8 5	21
Fig 8	5.3.4.1 9.8.1.1 9.1.5.1 9.1.4.2	20 7 2 4	33
Fig 9	7.2.2.1 9.2.3.6	6 12	18
Total K = 241			

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PROPOSAL 'D'		2014	FORM B
Pilot ID #	Advanced Known		Flight #

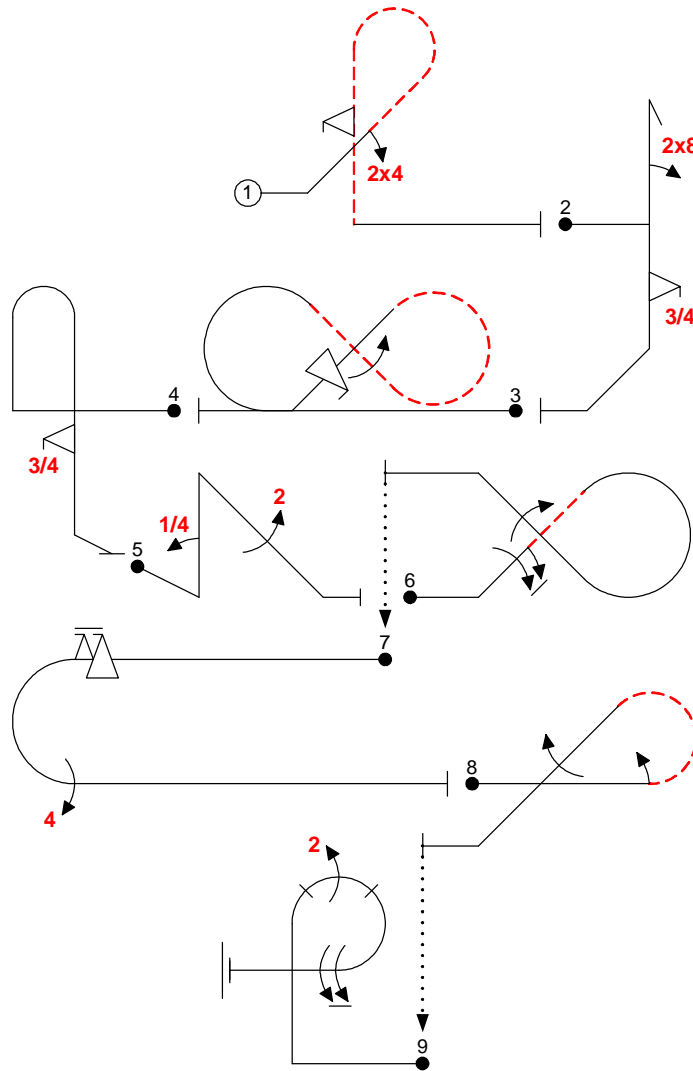
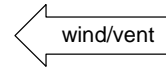
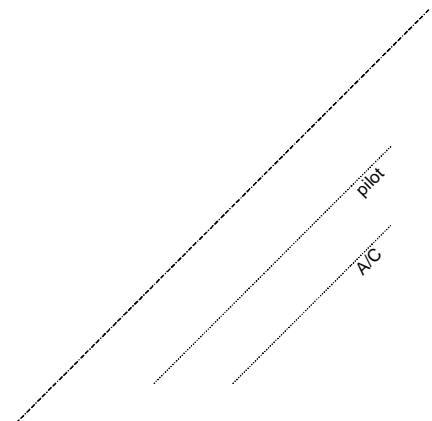


Fig 1	8.5.11.1 9.4.2.2 9.9.10.2	17 7 13	37
Fig 2	5.3.3.1 9.8.1.1 9.9.5.3	18 7 11	36
Fig 3	7.8.1.1 9.1.4.4 9.9.4.4	20 8 11	39
Fig 4	8.4.1.1 9.9.5.3	13 11	24
Fig 5	1.2.6.1 9.1.1.1 9.2.4.4	14 6 9	29
Fig 6	7.3.2.1 9.1.2.6 9.1.2.4	14 12 10	36
Fig 7	7.2.3.3 9.9.3.6 9.4.3.4	6 14 11	31
Fig 8	8.5.7.1 9.1.3.2 9.1.4.4	12 4 8	24
Fig 9	8.6.1.1 9.2.3.4 9.1.3.8	11 9 12	32
Total K = 288			

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PROPOSAL 'E'		2014	FORM B
Pilot ID #	Advanced Known		Flight #

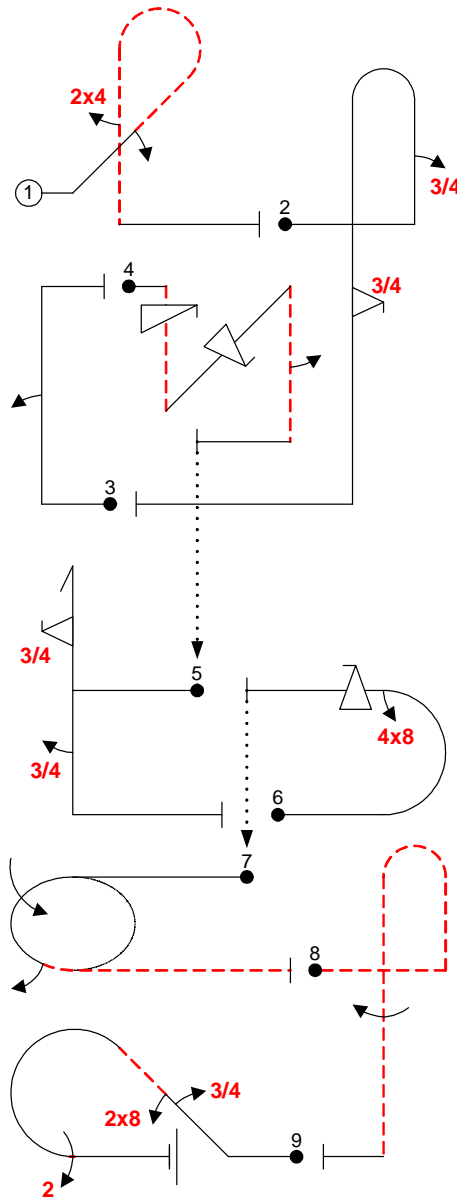
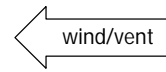


Fig 1	8.5.11.1 9.1.2.2 9.4.5.2	17 6 5	28
Fig 2	8.4.1.1 9.1.1.3 9.9.5.3	13 10 11	34
Fig 3	1.1.6.1 9.1.1.2	10 8	18
Fig 4	1.3.13.3 9.11.1.4 9.9.2.4 9.1.5.2	23 5 13 4	45
Fig 5	5.2.1.1 9.9.1.3 9.1.5.3	17 15 6	38
Fig 6	7.2.2.1 9.8.3.2 9.9.3.4	6 7 11	24
Fig 7	2.2.4.1	26	26
Fig 8	8.4.2.2 9.1.5.4	17 8	25
Fig 9	8.5.2.1 9.1.2.3 9.8.2.1 9.2.3.4	10 8 5 9	32
Total K = 270			

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 _____ pilot
 _____ A/C



PROPOSAL 'Fv2'		2014	FORM B
Pilot ID #	Advanced Known		Flight #

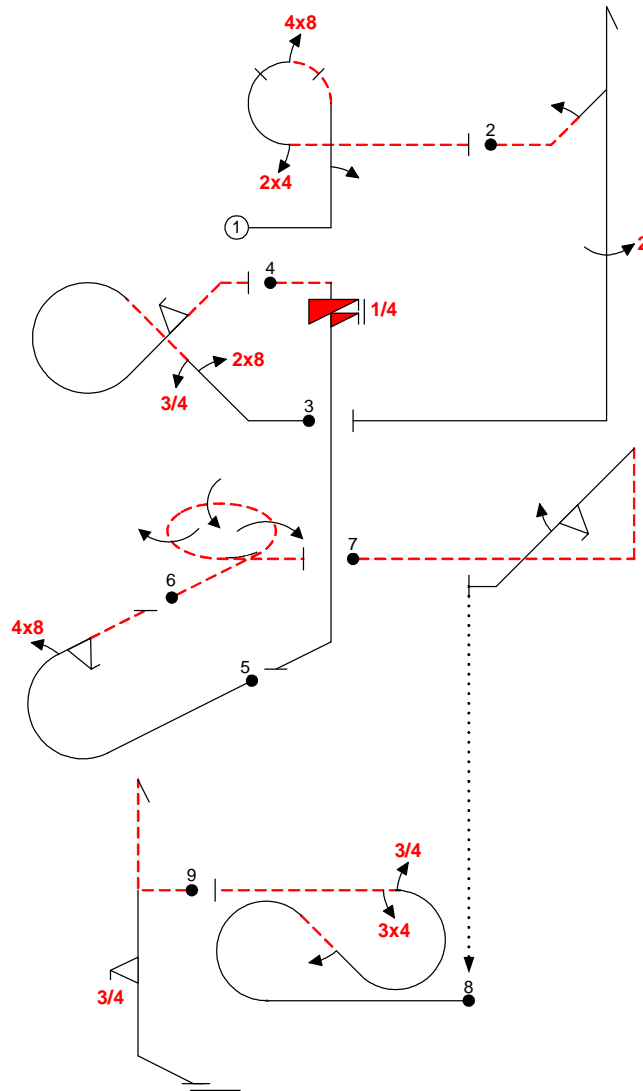
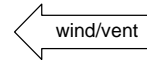
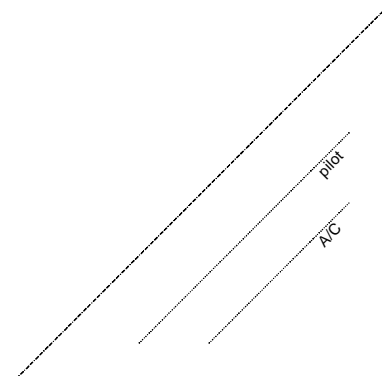


Fig 1	8.6.20.1	13	33
	9.1.1.2	8	
	9.8.3.2	7	
	9.4.3.2	5	
Fig 2	5.3.2.4	21	36
	9.1.2.2	6	
	9.2.5.4	9	
Fig 3	7.3.4.1	16	42
	9.8.2.1	5	
	9.1.2.3	8	
	9.9.2.2	13	
Fig 4	1.1.7.4	9	15
	9.12.1.5	6	
Fig 5	7.2.1.1	6	26
	9.8.2.2	9	
	9.9.3.2	11	
Fig 6	2.3.5.4	37	37
Fig 7	1.2.5.2	16	31
	9.9.4.2	11	
	9.1.4.2	4	
Fig 8	7.5.2.1	15	33
	9.1.4.2	4	
	9.1.3.3	6	
	9.4.3.3	8	
Fig 9	5.2.1.4	22	33
	9.9.5.3	11	
Total K = 286			

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PROPOSAL 'G'		2014	FORM B
Pilot ID #	Advanced Known		Flight #

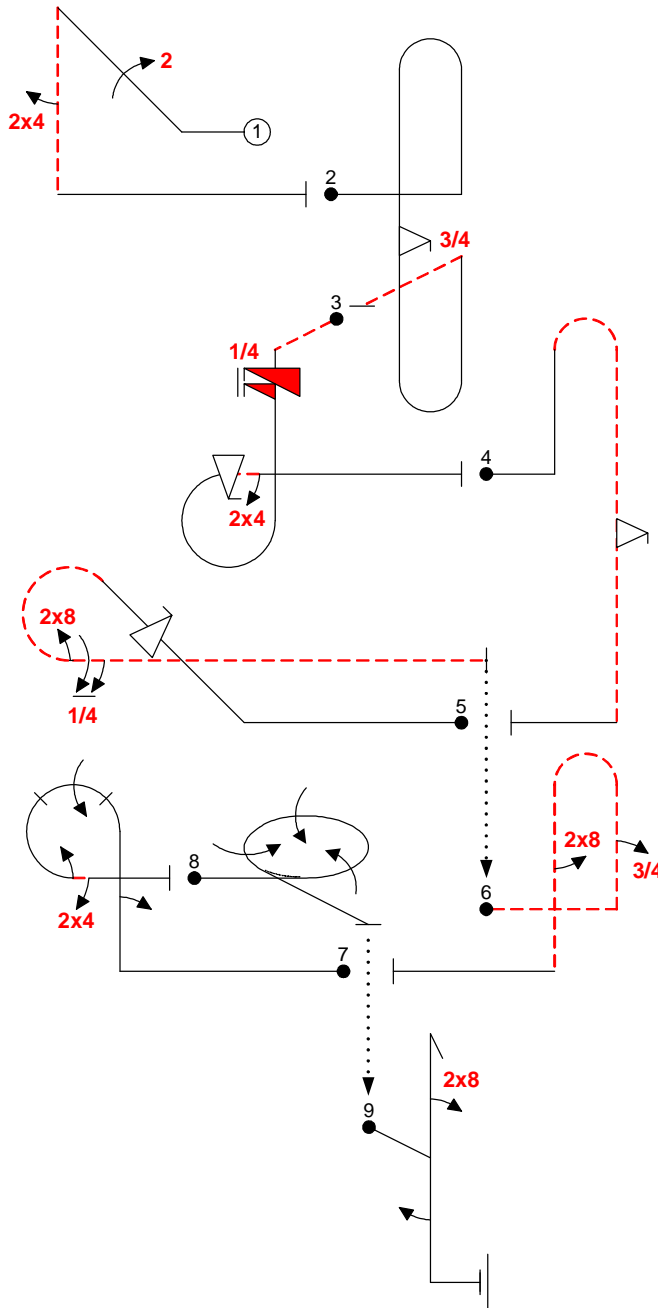
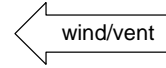
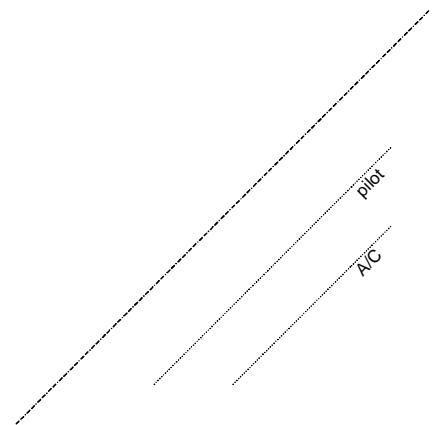


Fig 1	1.2.1.1 9.2.2.4 9.4.5.2	13 11 5	29
Fig 2	8.8.1.1 9.9.5.3	18 11	29
Fig 3	8.6.2.4 9.12.1.5 9.9.3.4 9.4.3.2	12 6 11 5	34
Fig 4	8.4.3.1 9.9.10.2	15 13	28
Fig 5	8.5.1.1 9.9.2.4 9.8.3.1 9.1.3.5	12 13 3 9	37
Fig 6	8.4.2.2 9.1.1.3 9.8.5.1	17 10 3	30
Fig 7	8.6.1.1 9.1.1.2 9.1.3.4 9.1.3.2 9.4.3.2	11 8 8 4 5	36
Fig 8	2.3.4.1	30	30
Fig 9	5.2.1.1 9.8.1.1 9.1.5.2	17 7 4	28
Total K = 281			

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PROPOSAL 'A'		2014	FORM B
Pilot ID #	Intermediate/Y52 Known		Flight #

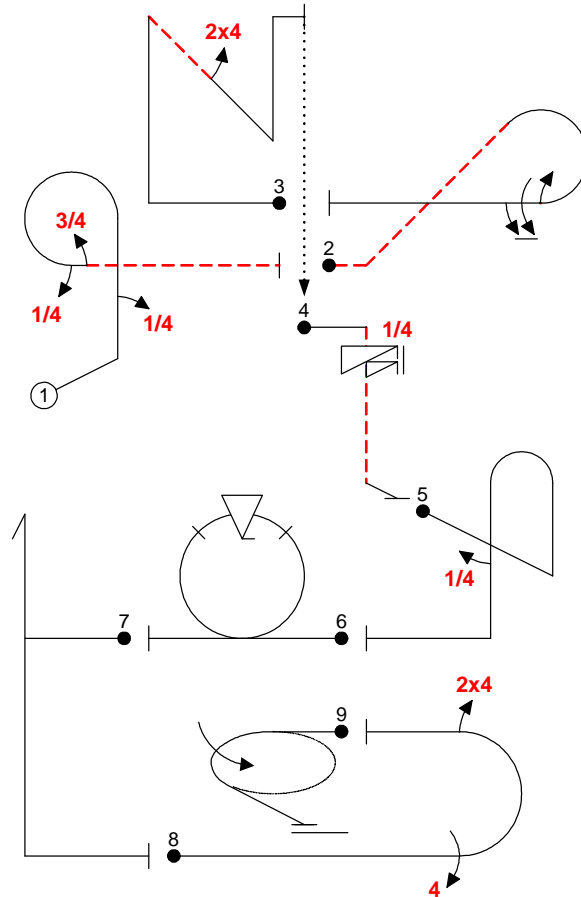
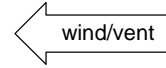
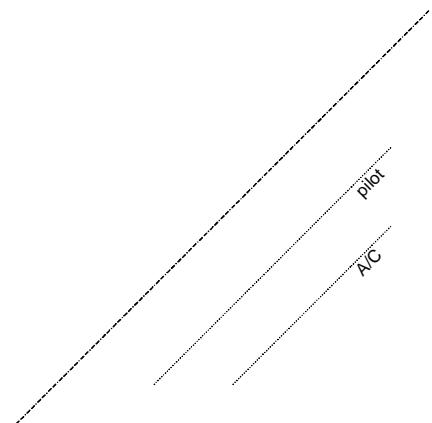


Fig 1	8.6.2.1	12	26
	9.1.1.1	6	
	9.1.3.1	2	
	9.1.3.3	6	
Fig 2	8.5.1.2	10	24
	9.1.3.2	4	
	9.1.3.6	10	
Fig 3	1.3.12.1	21	26
	9.4.4.2	5	
Fig 4	1.1.6.3	10	14
	9.11.1.5	4	
Fig 5	8.4.1.1	13	15
	9.1.5.1	2	
Fig 6	7.4.1.1	10	21
	9.9.3.4	11	
Fig 7	5.2.1.1	17	17
Fig 8	7.2.2.1	6	22
	9.4.3.4	11	
	9.4.3.2	5	
Fig 9	2.1.3.1	14	14
Total K = 179			

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PROPOSAL 'B'		2014	FORM B
Pilot ID #	Intermediate/Y52 Known		Flight #

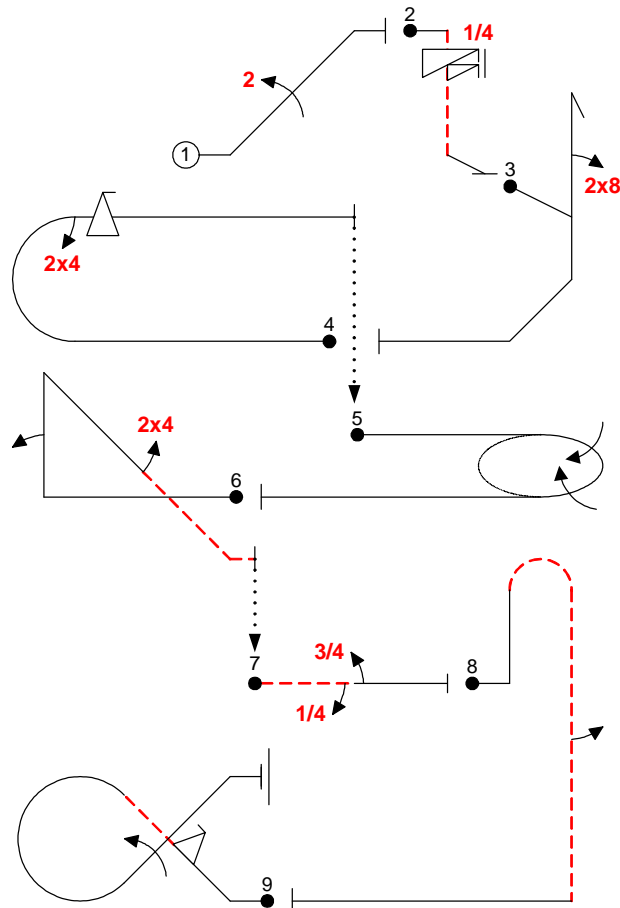
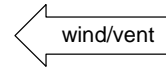
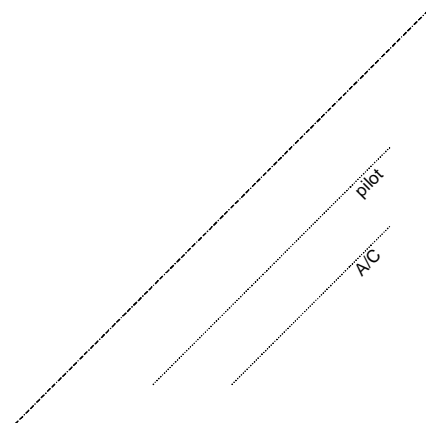


Fig 1	1.1.2.1 9.2.2.4	7 11	18
Fig 2	1.1.6.3 9.11.1.5	10 4	14
Fig 3	5.3.3.1 9.8.1.1	18 7	25
Fig 4	7.2.2.1 9.4.3.2 9.9.3.4	6 5 11	22
Fig 5	2.2.5.1	22	22
Fig 6	1.2.8.1 9.1.1.2 9.4.4.2	16 8 5	29
Fig 7	1.1.1.4 9.1.3.1 9.1.3.3	2 2 6	10
Fig 8	8.4.3.1 9.1.5.2	15 4	19
Fig 9	7.3.2.1 9.9.2.2 9.1.2.4	14 13 10	37
Total K = 196			

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PROPOSAL 'C'		2014	FORM B
Pilot ID #	Intermediate/Y52 Known		Flight #

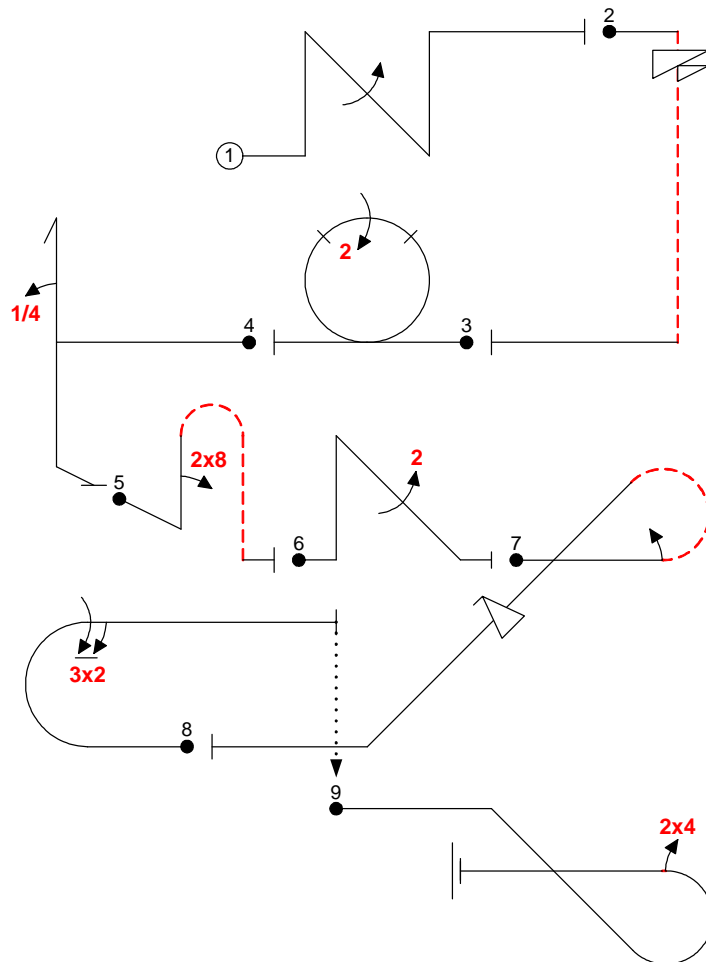
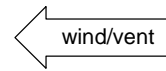
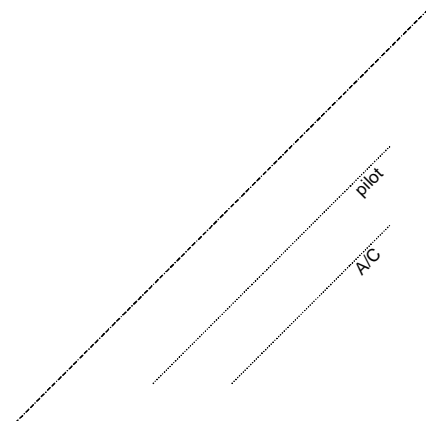


Fig 1	1.3.13.1 9.1.4.4	22 8	30
Fig 2	1.1.6.3 9.11.1.6	10 3	13
Fig 3	7.4.1.1 9.2.3.4	10 9	19
Fig 4	5.2.1.1 9.1.1.1	17 6	23
Fig 5	8.4.3.1 9.8.1.1	15 7	22
Fig 6	1.2.6.1 9.2.4.4	14 9	23
Fig 7	8.5.7.1 9.1.3.2 9.9.4.4	12 4 11	27
Fig 8	7.2.2.1 9.2.3.6	6 12	18
Fig 9	8.5.3.3 9.4.3.2	10 5	15
Total K = 190			

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PROPOSAL 'A'		2014	FORM B
Pilot ID #	Unlimited Glider Known		Flight #

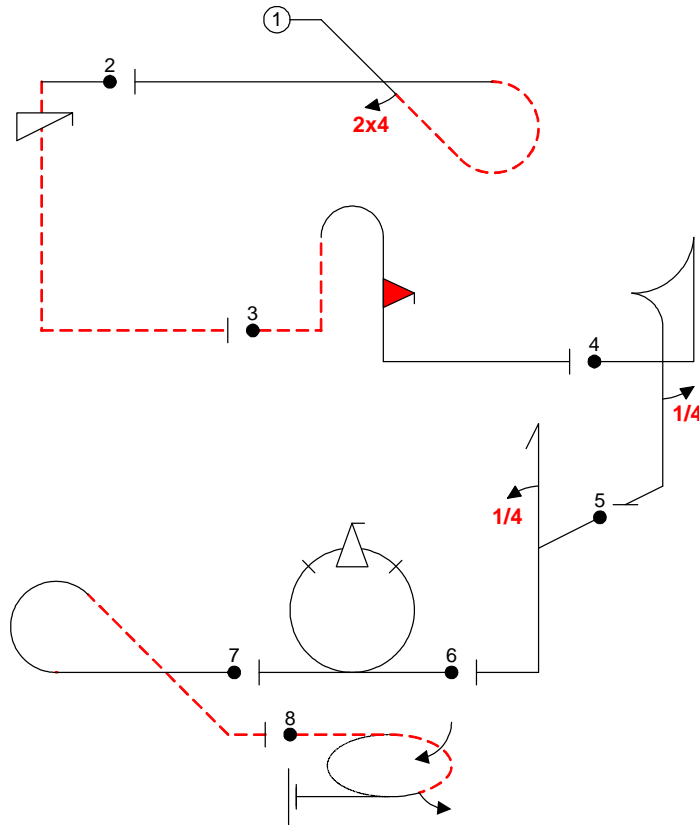
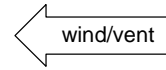


Fig 1	8.5.2.3 9.4.4.2	13 8	21
Fig 2	1.1.7.3 9.11.1.4	11 5	16
Fig 3	8.4.4.2 9.10.10.2	14 15	29
Fig 4	6.2.1.1 9.1.5.1	17 3	20
Fig 5	5.2.1.1 9.1.1.1	17 9	26
Fig 6	7.4.1.1 9.9.3.4	10 16	26
Fig 7	8.5.5.1	10	10
Fig 8	2.2.4.2	37	37
Total K = 185			

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PROPOSAL 'B'		2014	FORM B
Pilot ID #	Unlimited Glider Known		Flight #

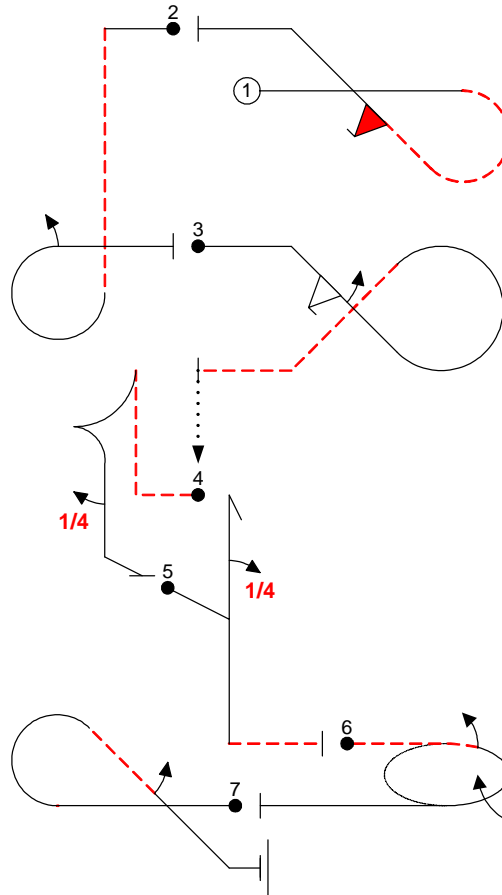
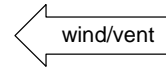
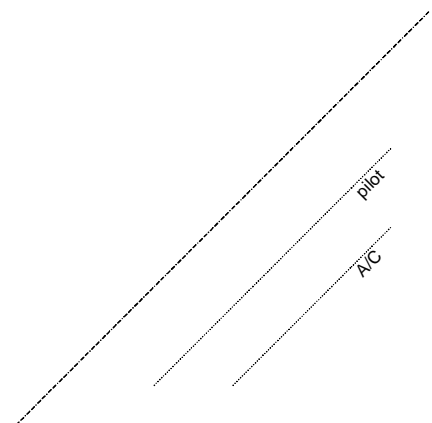


Fig 1	8.5.6.3 9.10.2.2	14 18	32
Fig 2	8.6.4.3 9.1.3.2	13 6	19
Fig 3	7.3.1.3 9.9.4.2 9.1.4.2	14 12 6	32
Fig 4	6.2.1.4 9.1.5.1	22 3	25
Fig 5	5.2.1.3 9.1.1.1	18 9	27
Fig 6	2.2.7.4	39	39
Fig 7	8.5.6.1 9.1.4.2	10 6	16
Total K = 190			

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PROPOSAL 'A'		2014	FORM B
Pilot ID #	Advanced Glider Known		Flight #

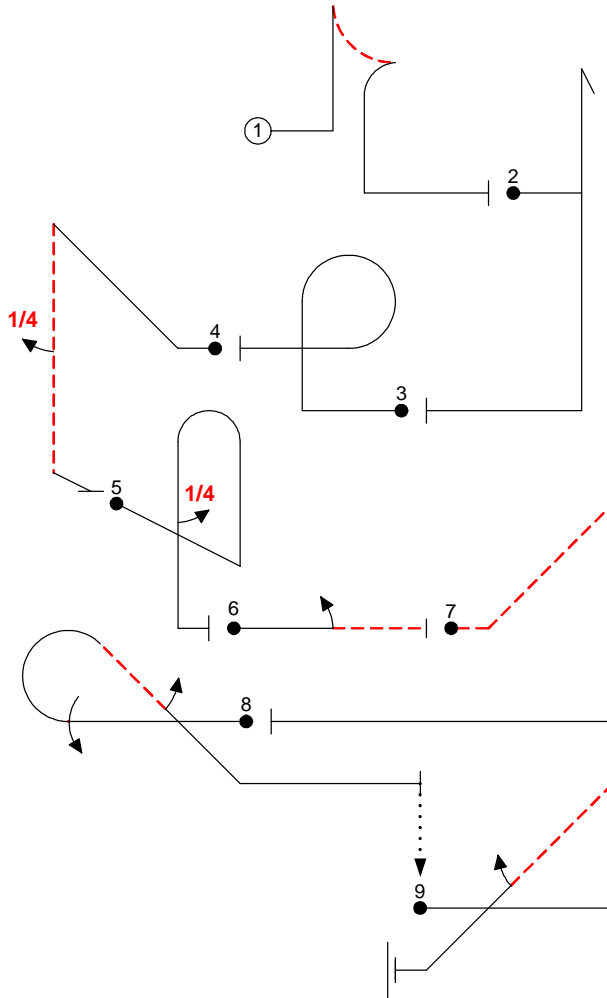
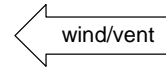
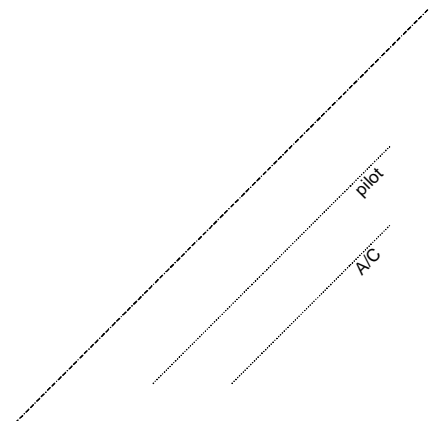


Fig 1	6.2.2.1	17	17
Fig 2	5.2.1.1	17	17
Fig 3	8.6.1.1	11	11
Fig 4	1.2.1.1 9.1.5.1	13 3	16
Fig 5	8.4.1.1 9.1.5.1	13 3	16
Fig 6	1.1.1.3 9.1.3.2	2 6	8
Fig 7	1.2.2.2	13	13
Fig 8	8.5.6.1 9.1.3.4 9.1.4.2	10 12 6	28
Fig 9	1.2.7.1 9.1.4.2	13 6	19

Total K = 145

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PROPOSAL 'B'		2014	FORM B
Pilot ID #	Advanced Glider Known		Flight #

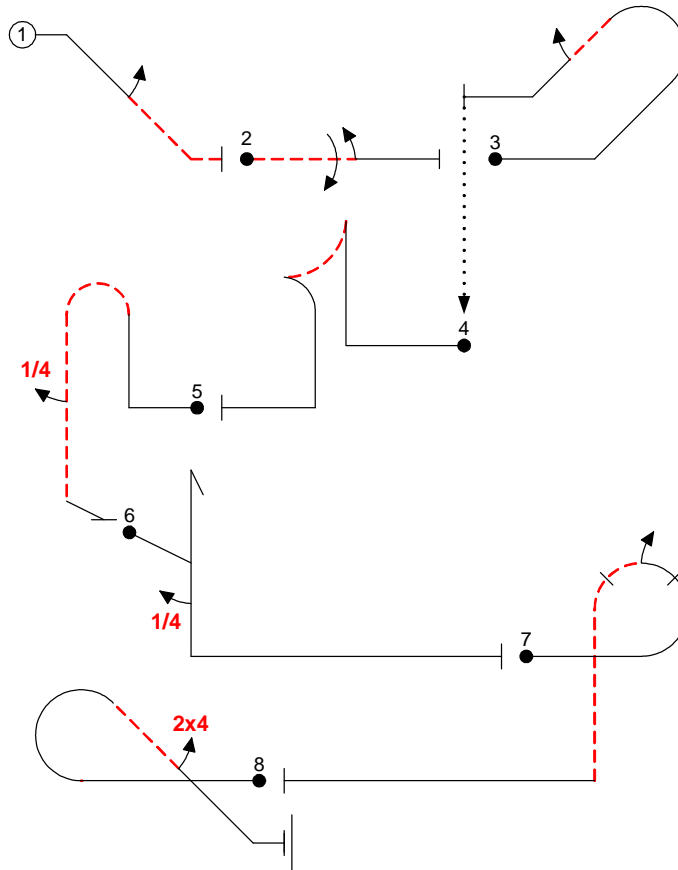
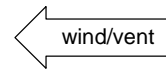


Fig 1	1.1.3.3 9.1.4.2	8 6	14
Fig 2	1.1.1.4 9.1.3.4 9.1.3.2	2 12 6	20
Fig 3	8.4.14.1 9.1.4.2	12 6	18
Fig 4	6.2.2.1	17	17
Fig 5	8.4.3.1 9.1.5.1	15 3	18
Fig 6	5.2.1.1 9.1.5.1	17 3	20
Fig 7	8.6.22.1 9.1.3.2	13 6	19
Fig 8	8.5.6.1 9.4.4.2	10 8	18
Total K = 144			

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PROPOSAL 'C'		2014	FORM B
Pilot ID #	Advanced Glider Known		Flight #

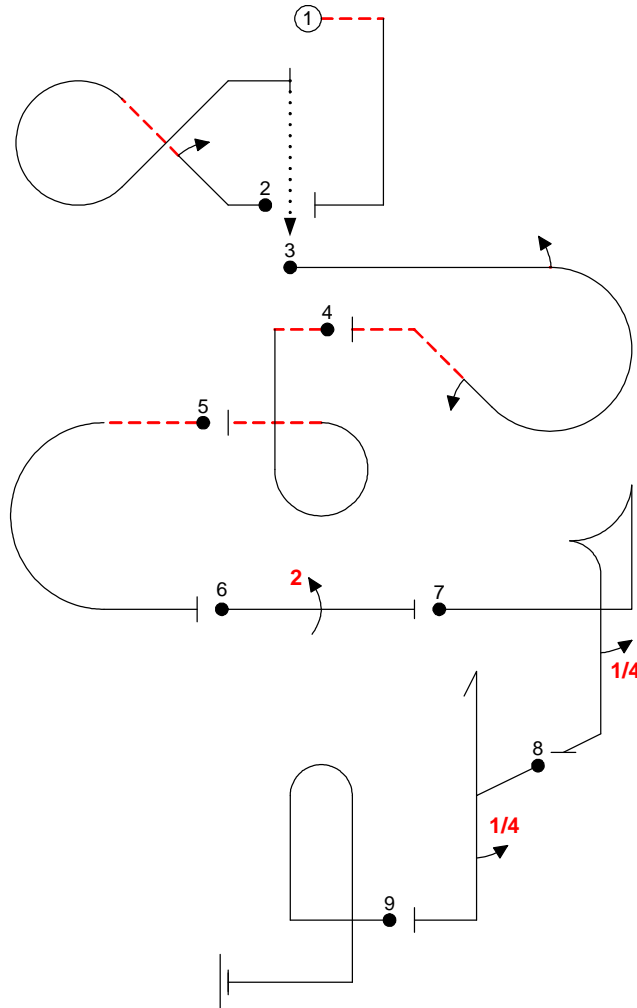
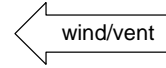


Fig 1	1.1.7.4	9	9
Fig 2	7.3.2.1 9.1.2.2	14 9	23
Fig 3	8.5.8.3 9.1.3.2 9.1.2.2	11 6 9	26
Fig 4	8.6.1.4	12	12
Fig 5	7.2.1.4	6	6
Fig 6	1.1.1.1 9.2.3.4	2 14	16
Fig 7	6.2.1.1 9.1.5.1	17 3	20
Fig 8	5.2.1.1 9.1.5.1	17 3	20
Fig 9	8.4.1.1	13	13
Total K = 145			

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