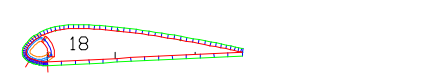
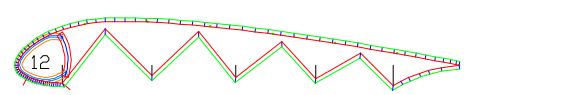
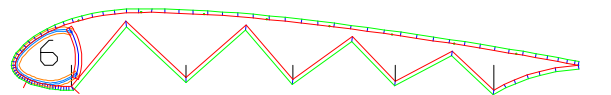
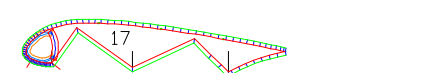
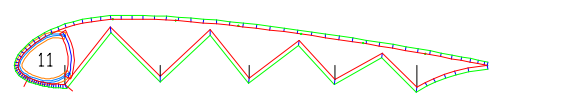
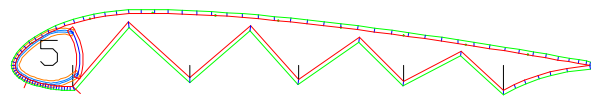
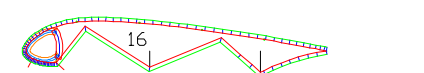
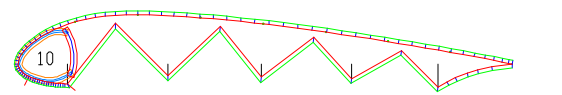
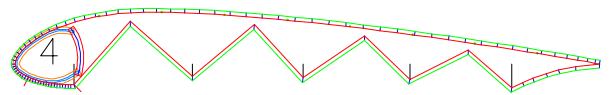
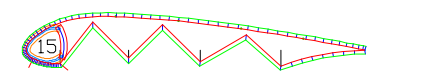
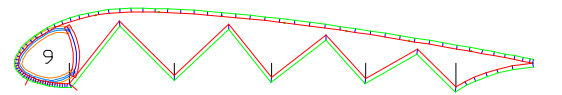
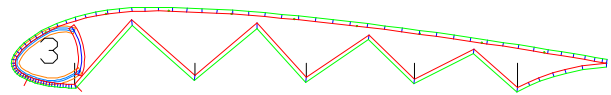
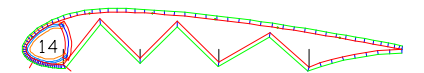
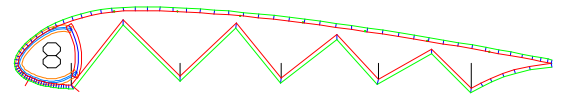
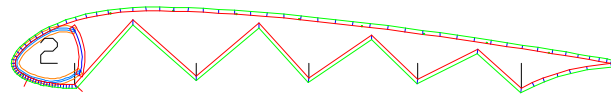
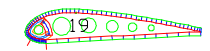
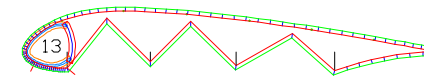
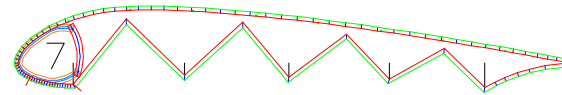
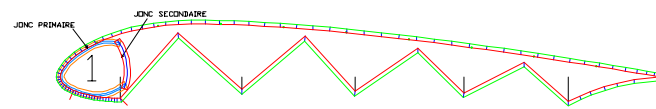
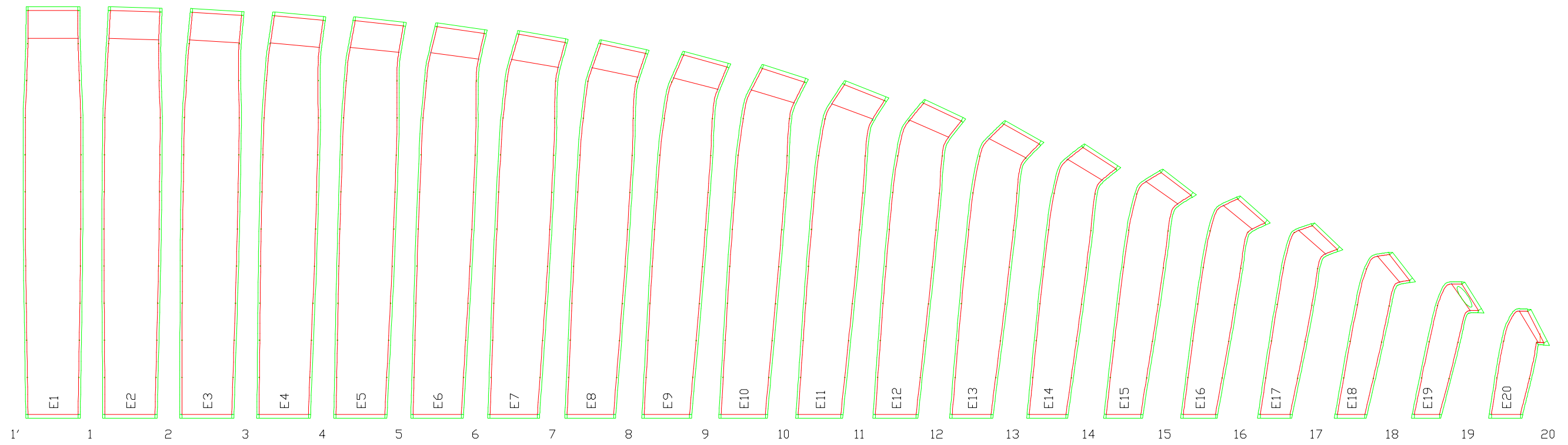


Laboratori d'envol BHL5-20
 Flat area (m²) : 20.00
 Flat span (m) : 10.64
 Flat aspect ratio : 5.66
 Cells number : 39
 Version : 20201208

1-1 PLANFORM AND VAULT



Leading edge

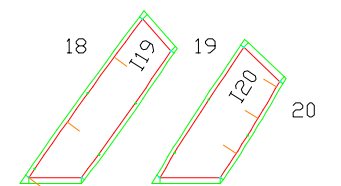


Trailing edge

1-3 EXTRADOS PANELS

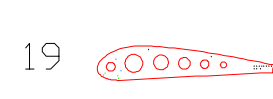
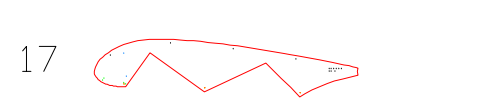
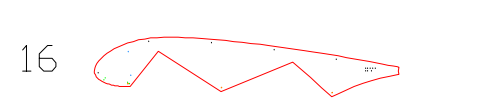
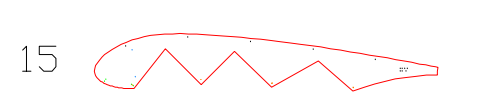
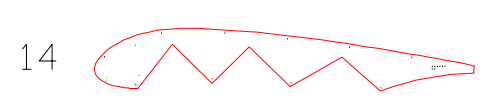
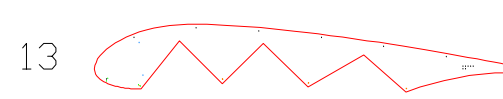
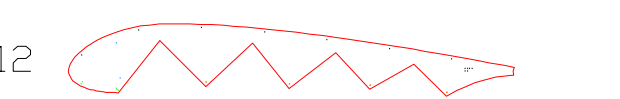
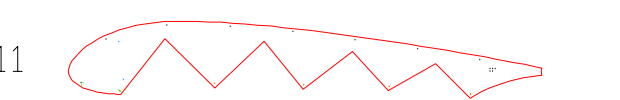
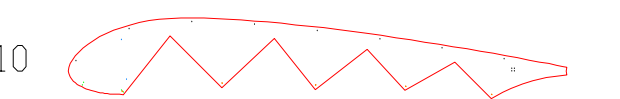
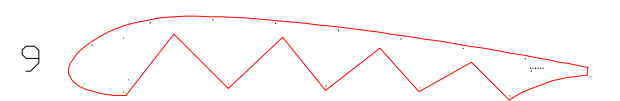
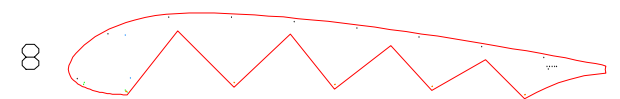
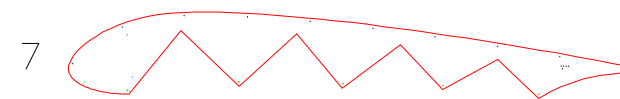
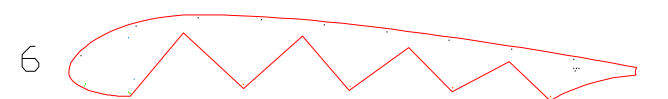
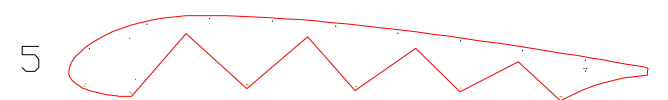
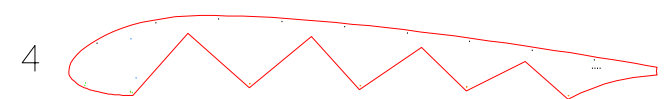
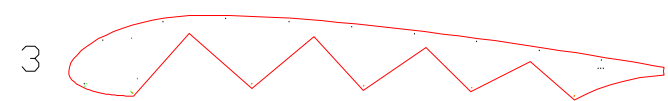
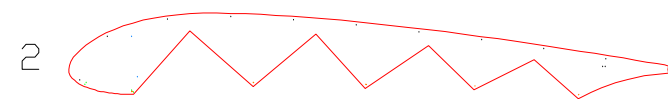
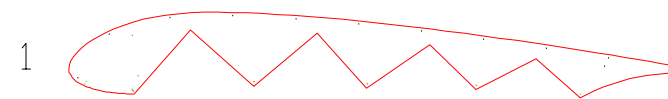


Trailing edge

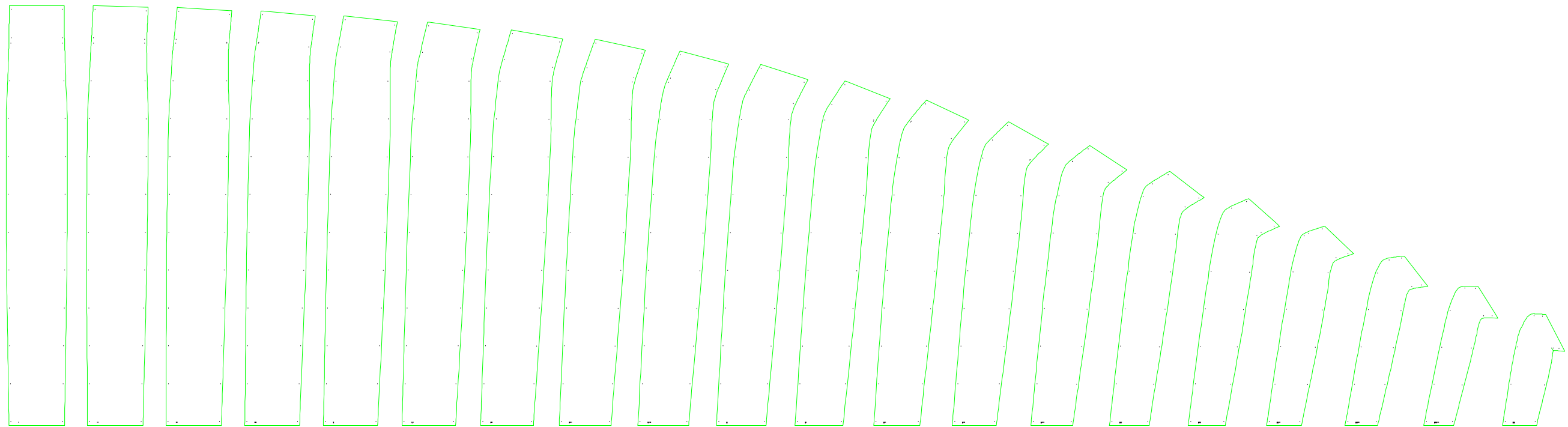


Leading edge

2-3 INTRADOS PANELS

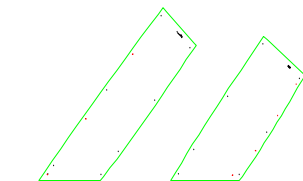
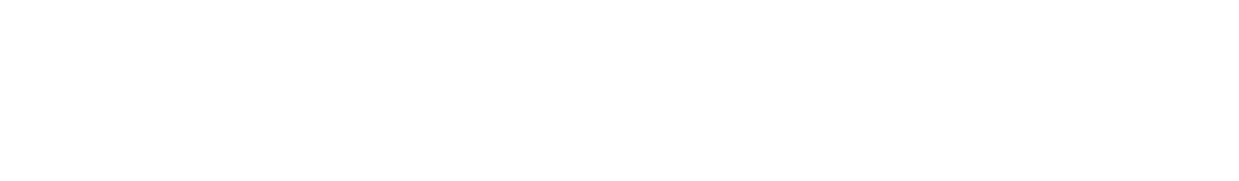


Leading edge



Trailing edge

1-5 EXTRADOS PANELS (FOR CUTTING TABLE)

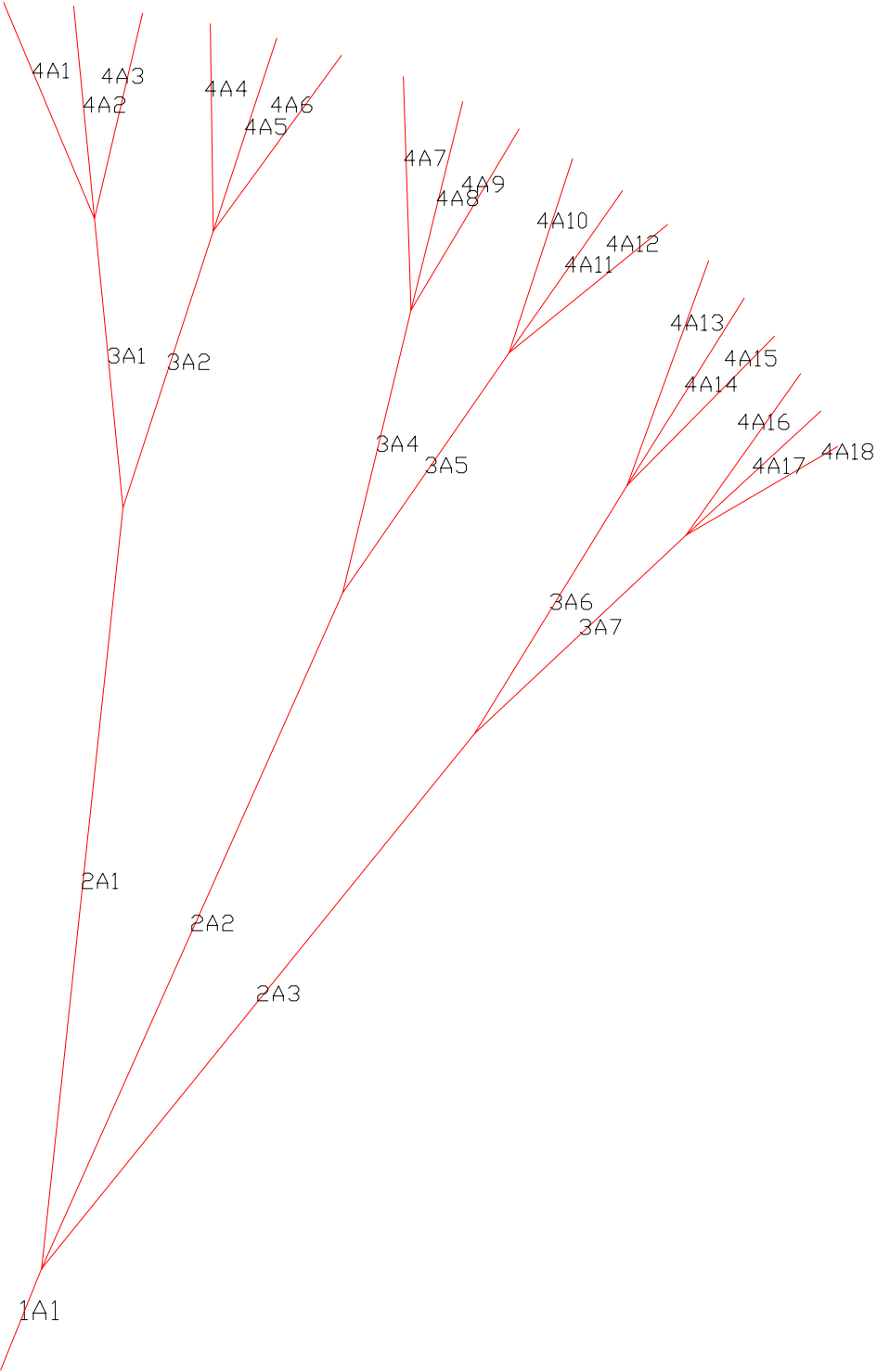


Trailing edge

Leading edge

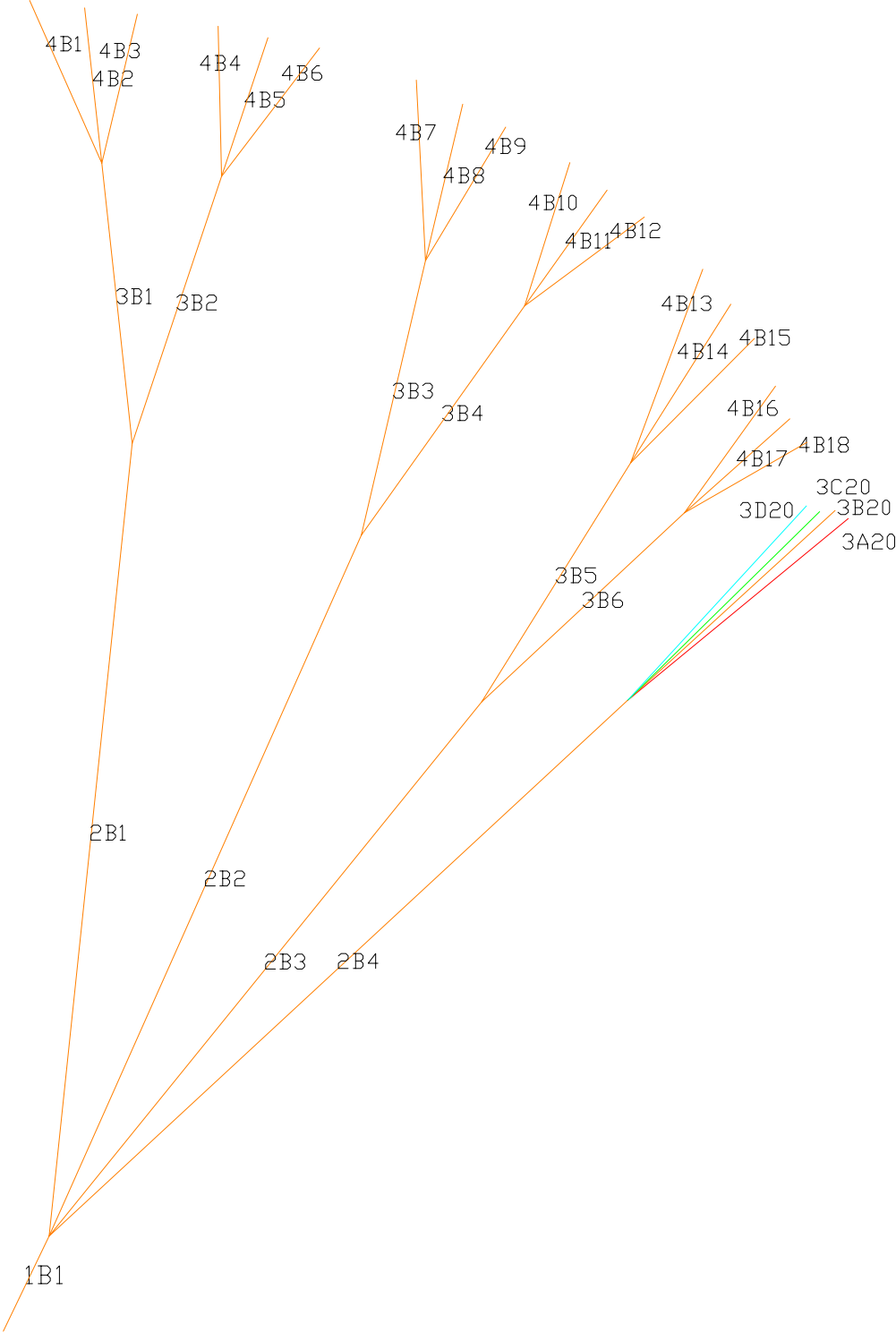
Line - Label - Length

1	1A1	47.0
2	2A1	366.6
3	2A2	352.7
4	2A3	327.8
5	3A1	138.8
6	3A2	138.8
7	3A4	138.8
8	3A5	138.9
9	3A6	138.9
10	3A7	138.9
11	4A1	113.2
12	4A2	103.2
13	4A3	101.7
14	4A4	100.0
15	4A5	97.7
16	4A6	104.1
17	4A7	113.3
18	4A8	103.9
19	4A9	101.5
20	4A10	98.6
21	4A11	95.3
22	4A12	98.4
23	4A13	115.4
24	4A14	106.1
25	4A15	101.0
26	4A16	95.1
27	4A17	88.4
28	4A18	86.8



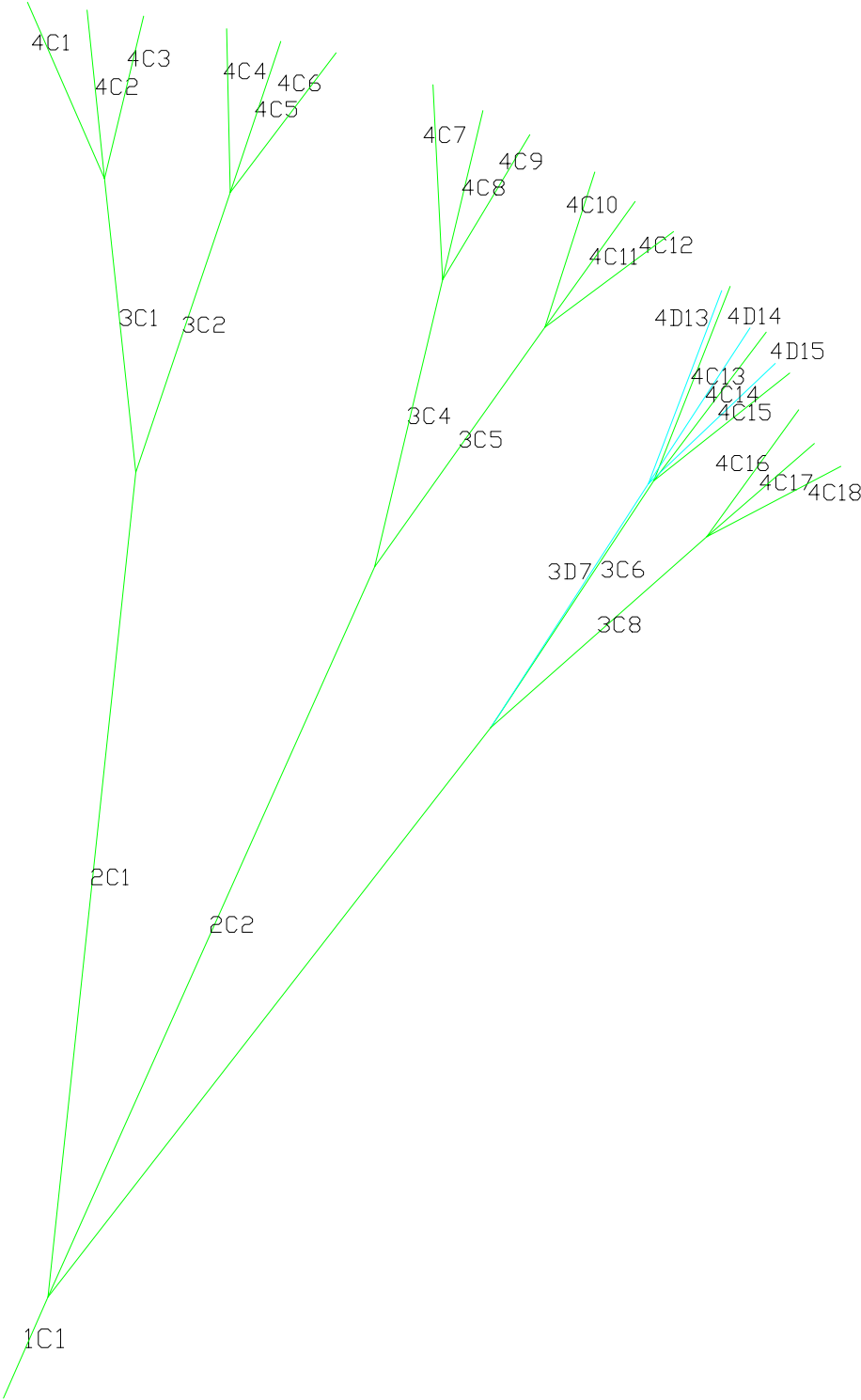
Line - Label - Length

29	1B1	47.0
30	2B1	394.6
31	2B2	378.7
32	2B3	340.8
33	2B4	395.0
34	3B1	138.8
35	3B2	138.8
36	3B3	138.8
37	3B4	138.9
38	3B5	138.9
39	3B6	138.9
40	3A20	141.4
41	3B20	140.2
42	3C20	140.5
43	3D20	142.4
44	4B1	89.6
45	4B2	78.6
46	4B3	76.9
47	4B4	75.2
48	4B5	73.0
49	4B6	80.4
50	4B7	91.3
51	4B8	81.2
52	4B9	78.7
53	4B10	75.5
54	4B11	71.8
55	4B12	75.2
56	4B13	103.0
57	4B14	93.3
58	4B15	87.7
59	4B16	77.7
60	4B17	71.6
61	4B18	72.5



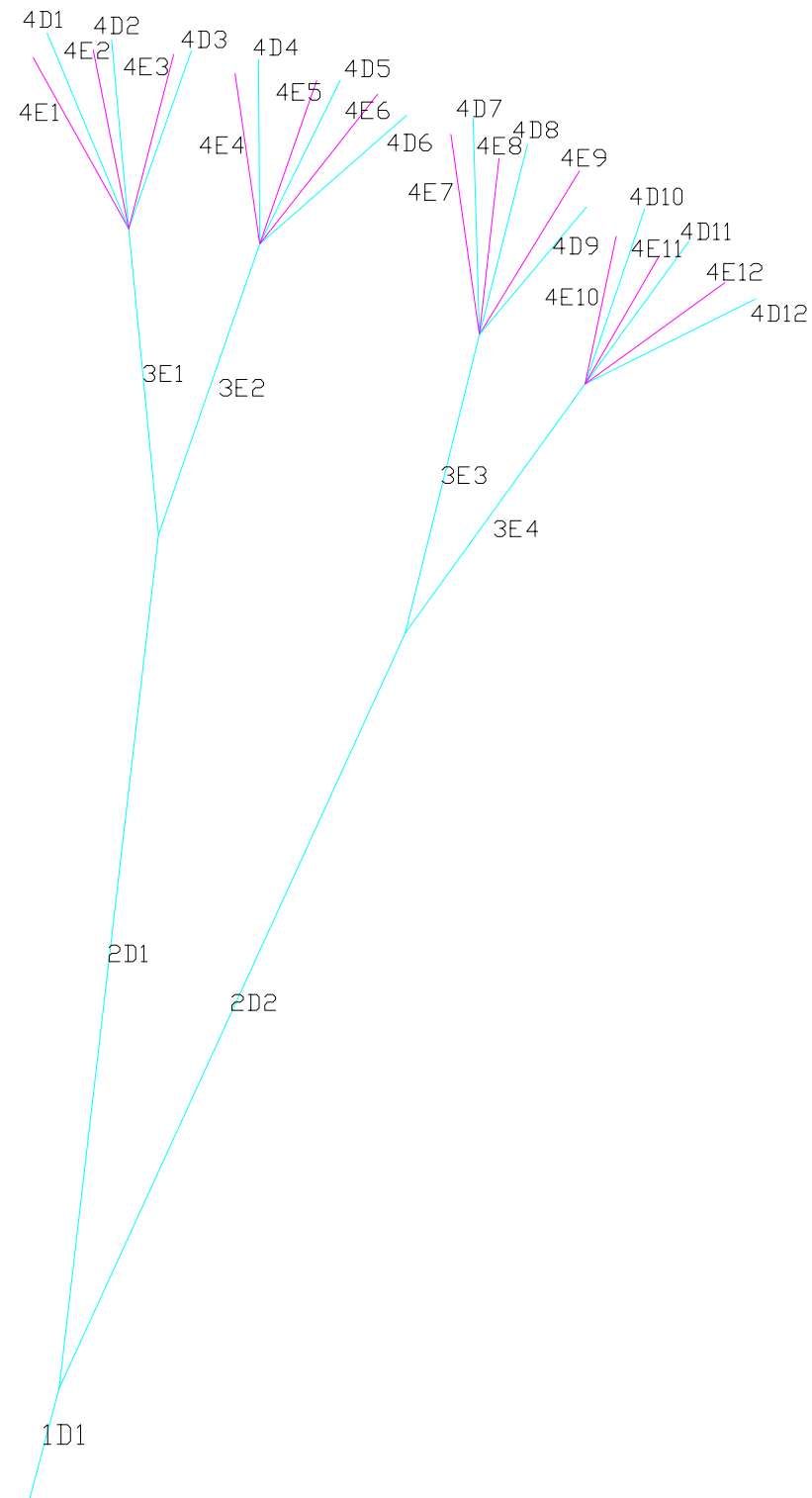
Line - Label - Length

62	1C1	47.0
63	2C1	392.8
64	2C2	377.9
65	2C3	342.9
66	3C1	138.9
67	3C2	138.9
68	3C4	138.9
69	3C5	138.9
70	3C6	138.9
71	3D7	139.0
72	3C8	139.0
73	4C1	91.5
74	4C2	80.7
75	4C3	79.2
76	4C4	77.5
77	4C5	75.5
78	4C6	82.9
79	4C7	93.0
80	4C8	83.2
81	4C9	80.8
82	4C10	77.5
83	4C11	73.8
84	4C12	76.6
85	4C13	99.8
86	4C14	90.6
87	4C15	85.5
88	4D13	100.6
89	4D14	91.2
90	4D15	85.8
91	4C16	77.5
92	4C17	71.0
93	4C18	74.5



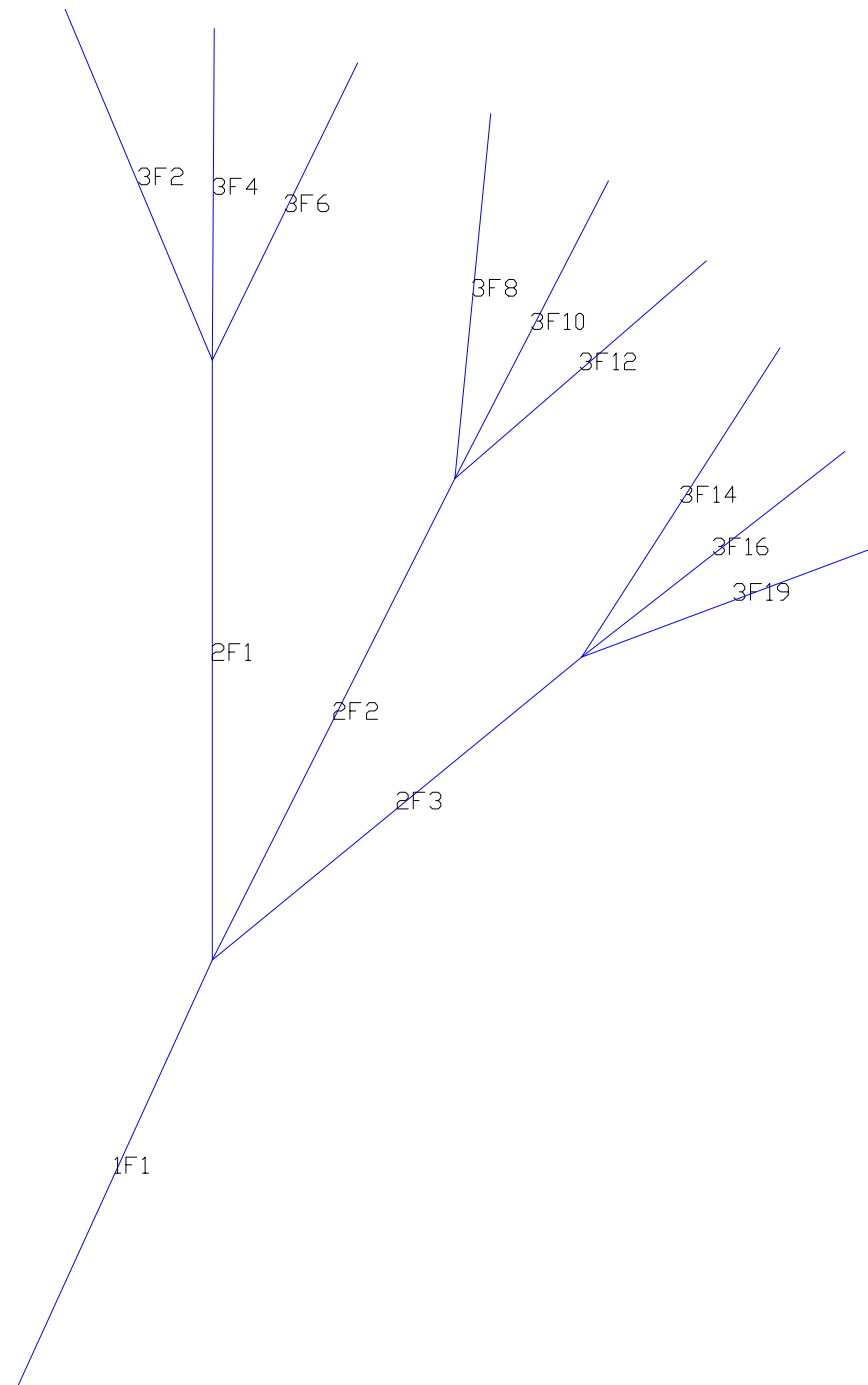
Line - Label - Length

94	1D1	47.0
95	2D1	389.8
96	2D2	376.9
97	3E1	138.9
98	3E2	138.9
99	3E3	138.9
100	3E4	138.9
101	4D1	96.5
102	4D2	86.4
103	4D3	85.2
104	4E1	101.5
105	4E2	91.7
106	4E3	90.4
107	4D4	83.9
108	4D5	82.2
109	4D6	89.5
110	4E4	89.2
111	4E5	87.2
112	4E6	93.9
113	4D7	97.8
114	4D8	88.5
115	4D9	86.5
116	4E7	102.4
117	4E8	93.0
118	4E9	90.6
119	4D10	83.1
120	4D11	79.3
121	4D12	81.4
122	4E10	87.0
123	4E11	82.6
124	4E12	83.7

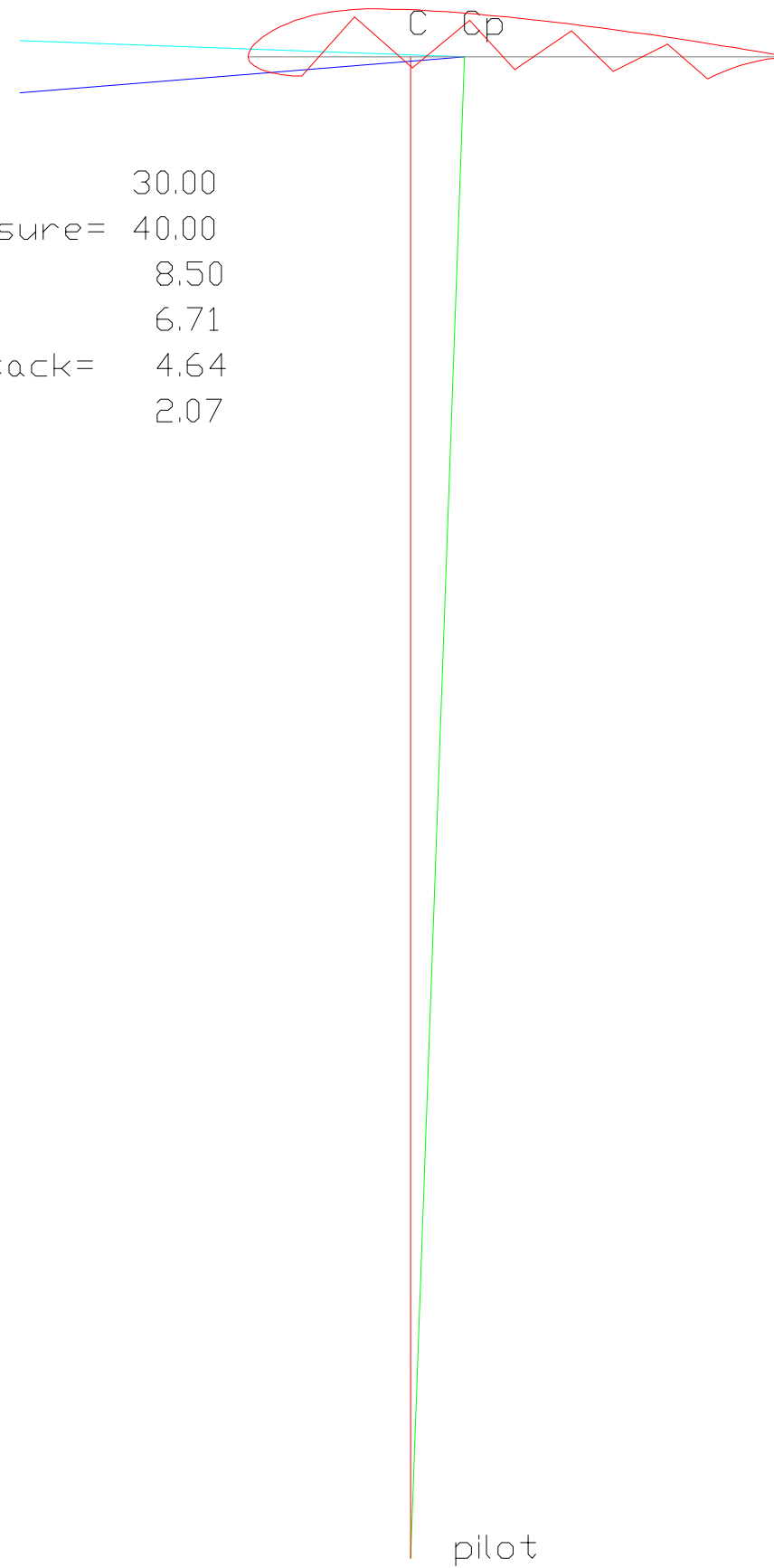
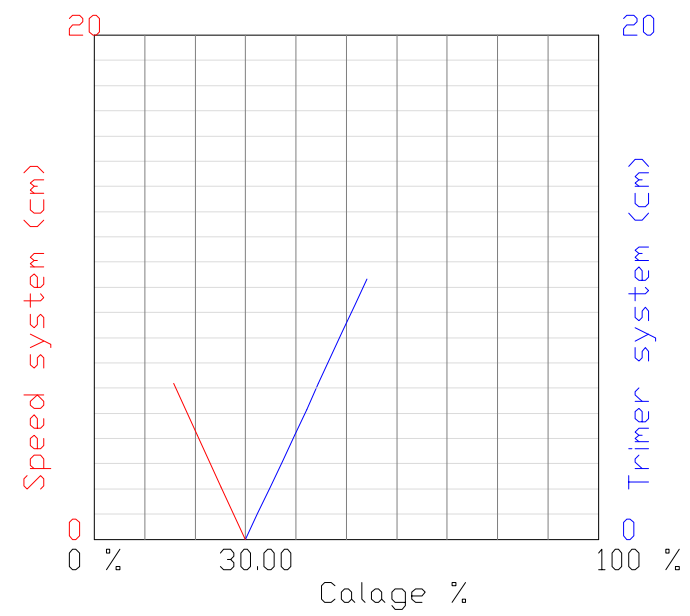


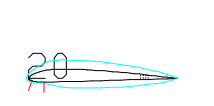
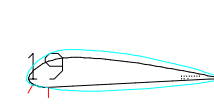
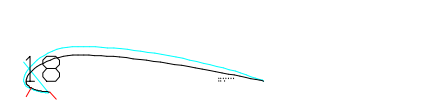
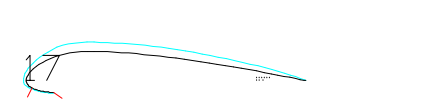
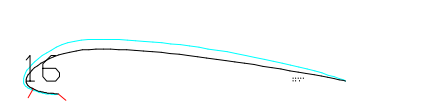
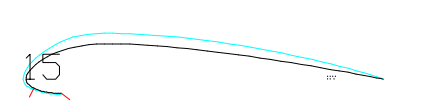
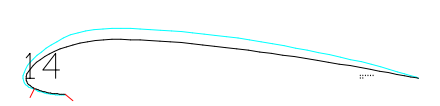
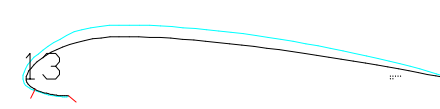
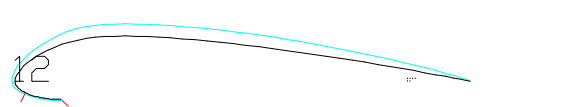
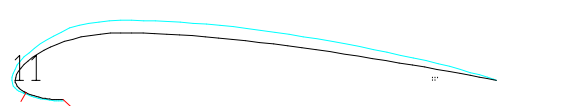
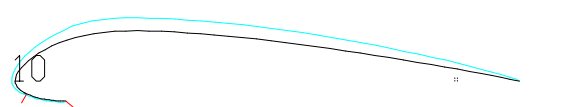
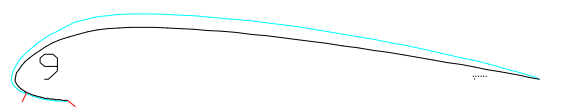
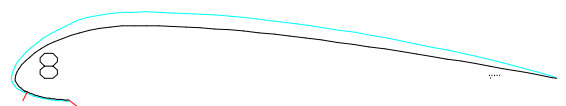
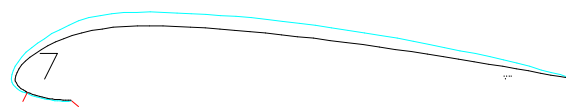
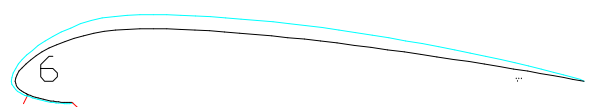
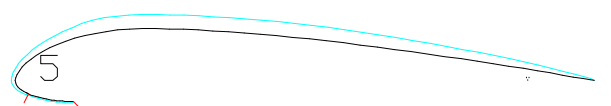
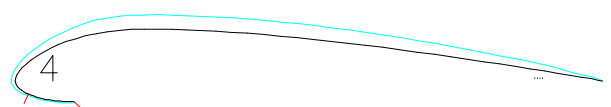
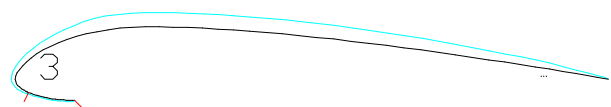
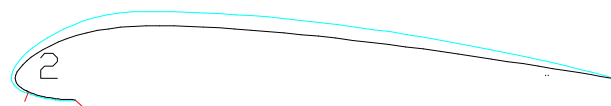
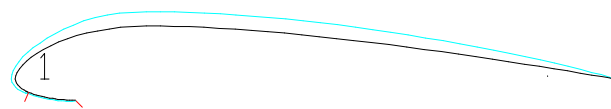
Line - Label - Length

125	1F1	214.0
126	2F1	275.0
127	2F2	246.0
128	2F3	215.0
129	3F2	173.5
130	3F4	151.7
131	3F6	150.6
132	3F8	167.6
133	3F10	152.8
134	3F12	150.2
135	3F14	168.2
136	3F16	151.5
137	3F19	145.9

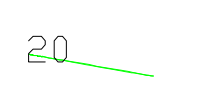
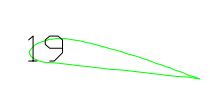
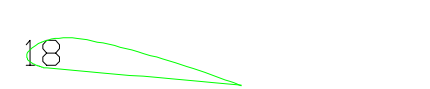
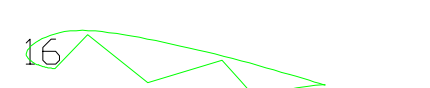
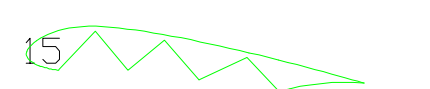
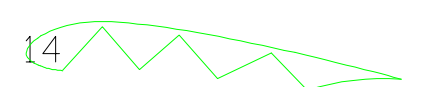
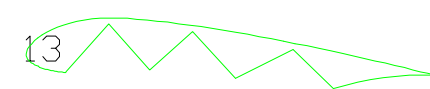
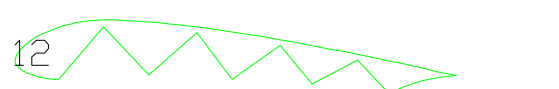
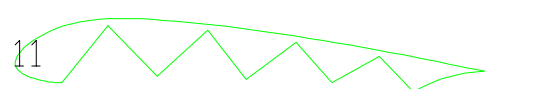
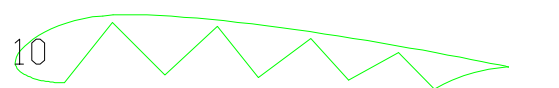
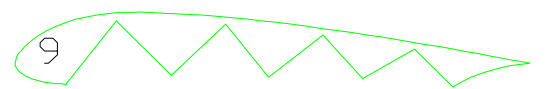
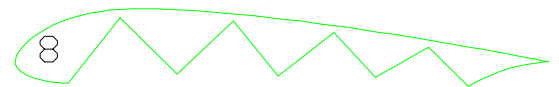
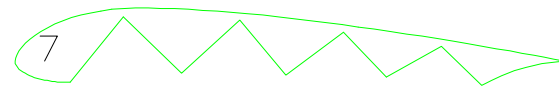
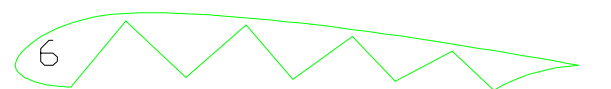
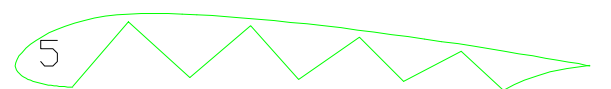
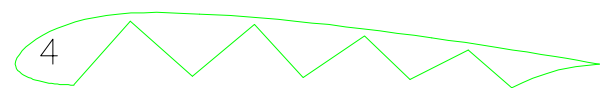
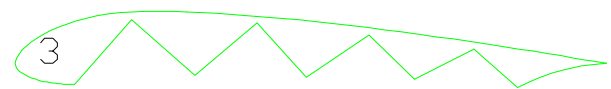
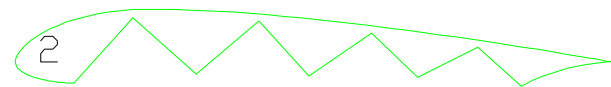
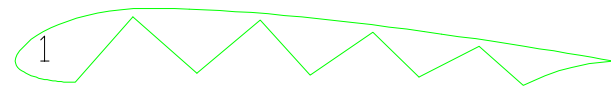


calage= 30.00
center pressure= 40.00
glide ratio= 8.50
glide angle= 6.71
angle of attack= 4.64
assiette= 2.07





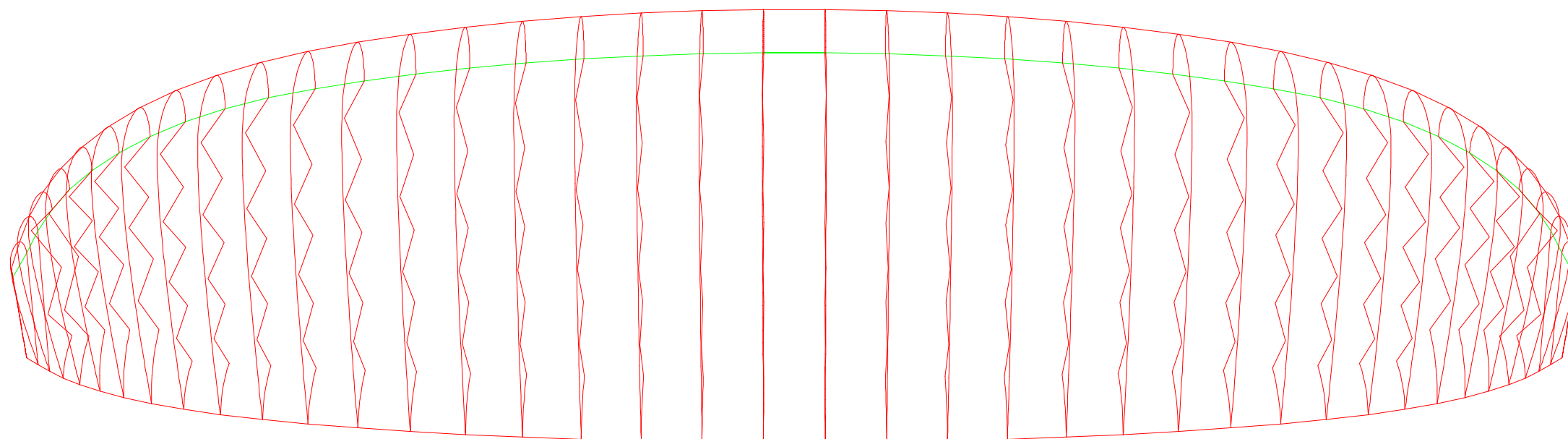
1-8 MIDDLE AND MIDDLE OVALIZED AIRFOILS



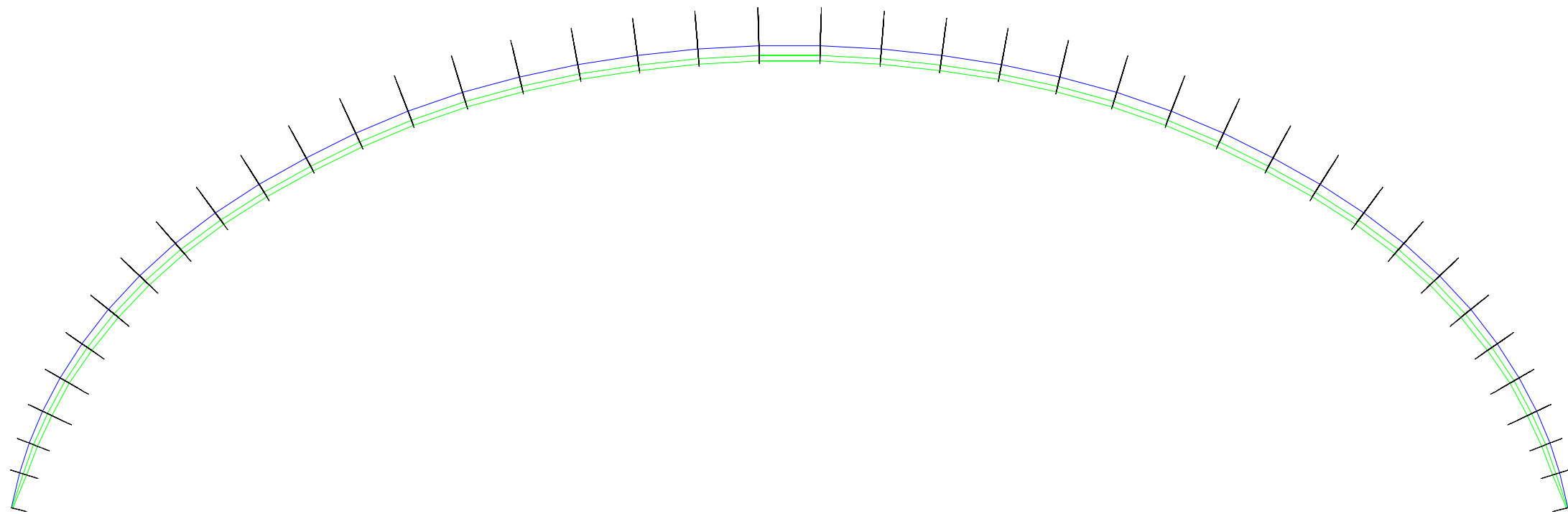
2-2 RIBS WASHIN ANGLE



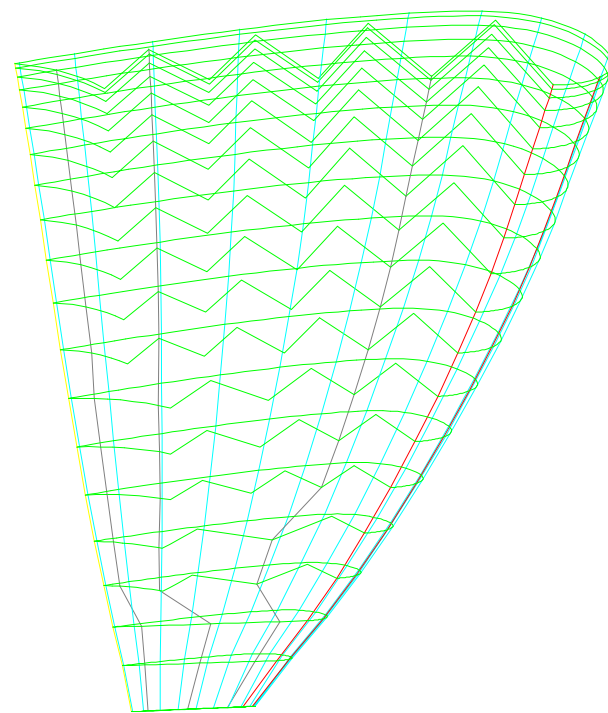
les bandes horizontales ne sont pas indispensables



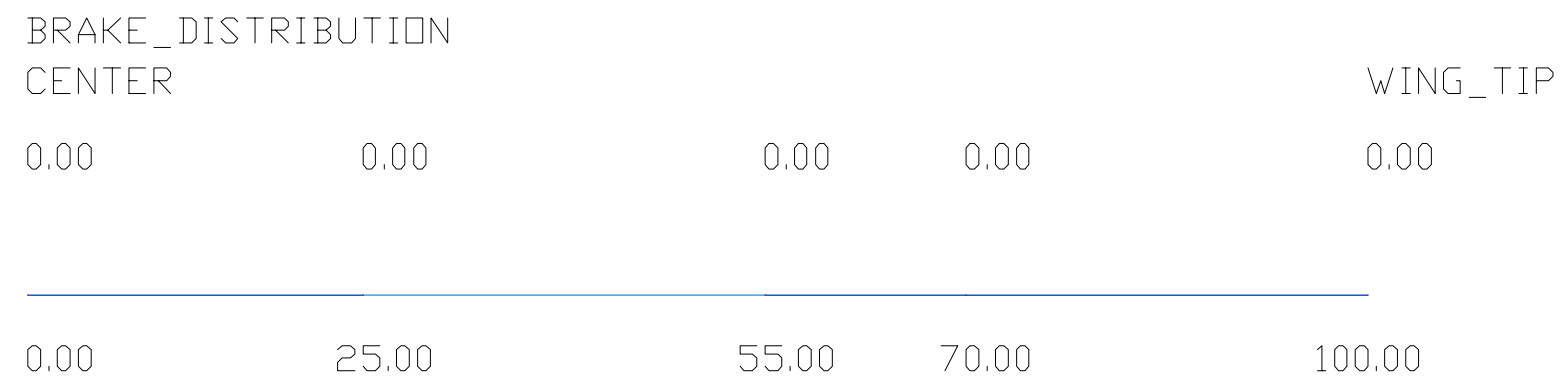
3-1 UPPER VIEW

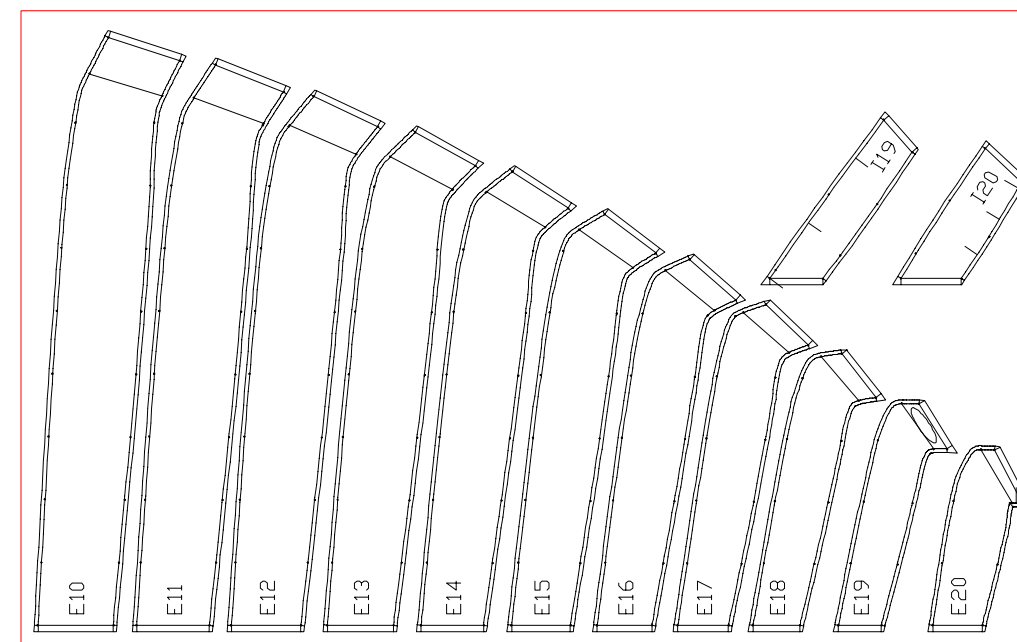
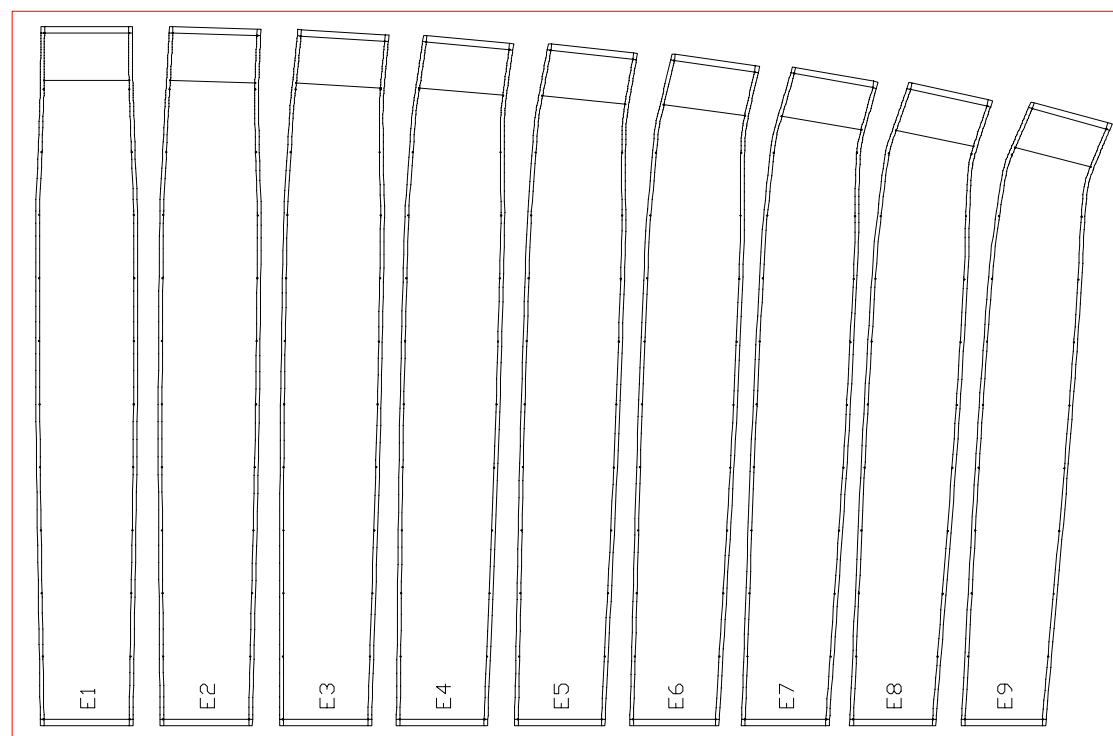
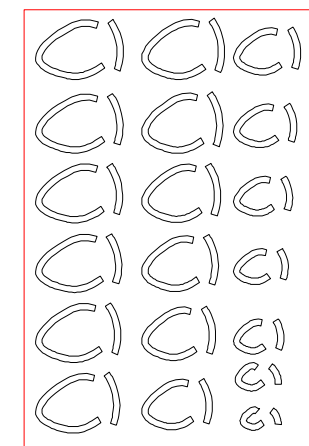
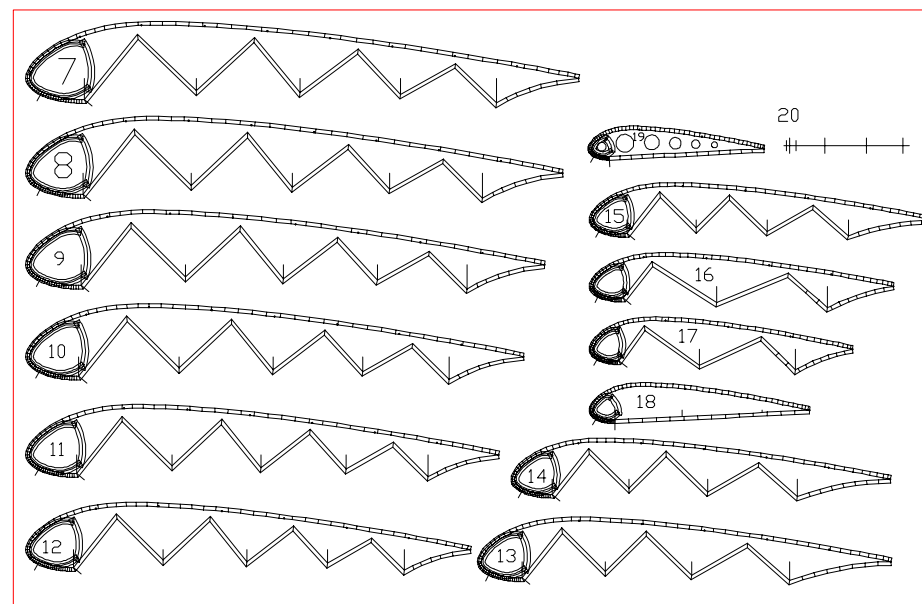
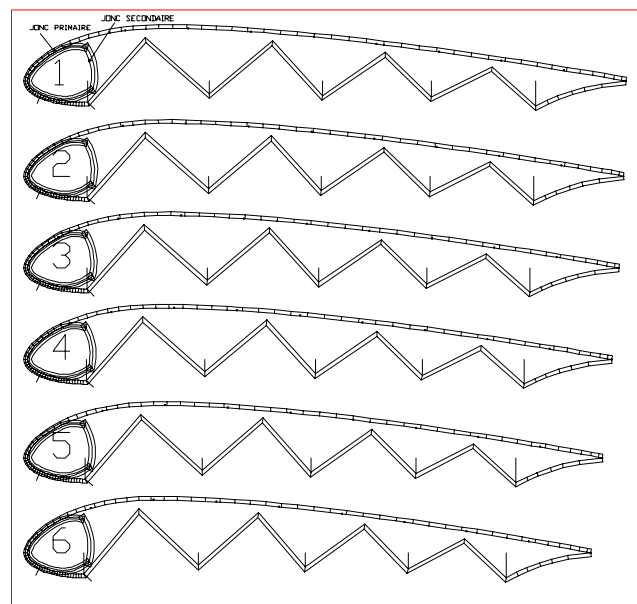


4-1 VAULT VIEW



4-2 LATERAL VIEW





3-8 ALL PARTS READY TO PRINT

PLANS GENERAL NOTES

- 1-1: Planform and vault view (informative)

1-2: Ribs for plotter, one side

1-3: Extrados panels for plotter, one side

1-4: Ribs for laser cutting, one side. Units cm

1-5: Extrados for laser cutting, one side.Units cm

1-6: Middle unloaded ribs for laser cutting,
one side Units cm

1-7: Rods pockets and nylons lengths, mylars

1-8: Intermediate and ovalized airfoils
- 2-1: Calage estimation, speed and trim systems

2-2: Ribs printed with washin angle (informative)

2-3: Intrados panels for plotter, one side

2-4: Mini-ribs horizontal and diagonal

2-5: Intrados for laser cutting, one side

2-6: Full diagonal ribs laser, one side

2-7: Free
- 3-1: Upper view 3D (informative)

3-2: Lines A

3-3: Lines B

3-4: Lines C

3-5: Lines D

3-6: V-rib type-6

3-7: Free
- 4-1: Vault view (informative)

4-2: Lateral view (informative)

4-3: Brake distribution (informative)

4-4: Free

4-5: Brake lines

4-6: Free

4-7: General notes

UNITS

Main units are centimeters. Scale x10 to use in mm

WIDTHS FOR SEWING AND OFFSETS

- Lateral width in extrados (mm): 15.00

Width in leading edge ex (mm): 25.00

Width in trailing edge ex (mm): 25.00

Lateral width in intrados (mm): 15.00

Width in leading edge in (mm): 25.00

Width in trailing edge in (mm): 25.00

Lateral width in ribs (mm): 15.00

Lateral width in V-ribs (mm): 15.00

General offset lateral points (mm): 1.20
- Distance between equidistant points (cm): 25.00

“ROMAN” NUMBERS CODIFICATION

Numbering panels, ribs, mini-ribs, V-ribs

Number	1	=	.
Number	2	=	..
Number	3	=	...
Number	4	=	....
Number	5	=	.....
Number	6	=	.....
Number	7	=	.....
Number	8	=	.....
Number	9	=	.....
Number	10	=	.....
Number	11	=	.....
Number	12	=	.....
Number	13	=	.....
Number	14	=	.....
Number	15	=	.....
Number	16	=	.....
Number	17	=	.....
Number	18	=	.....
Number	19	=	.....
Number	20	=	.....

