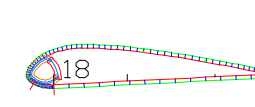
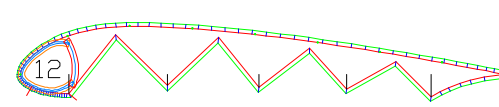
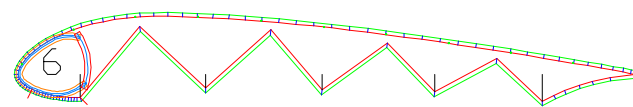
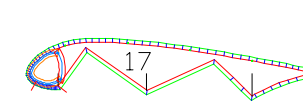
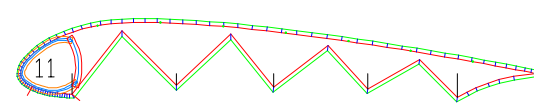
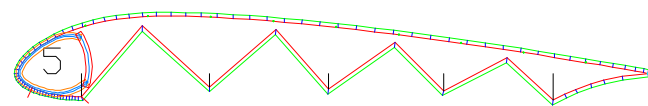
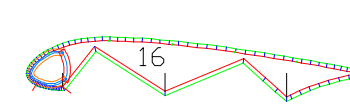
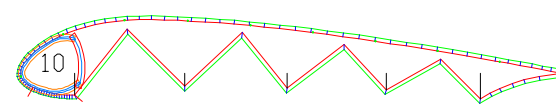
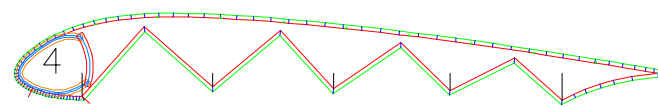
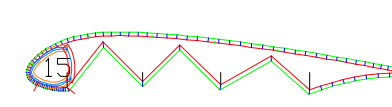
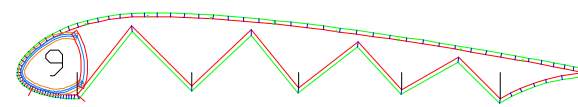
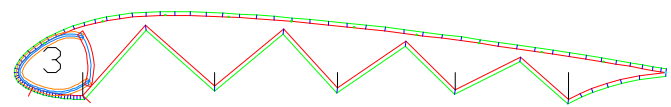
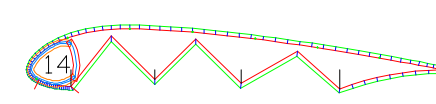
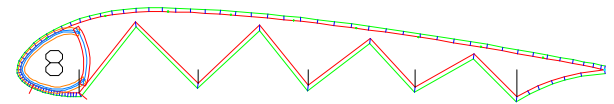
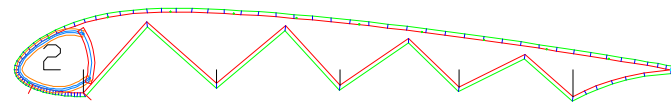
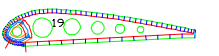
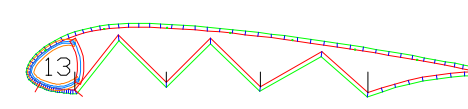
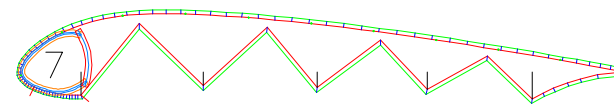
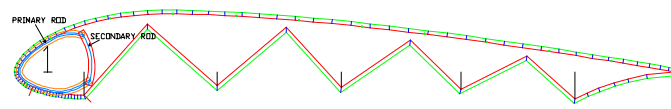


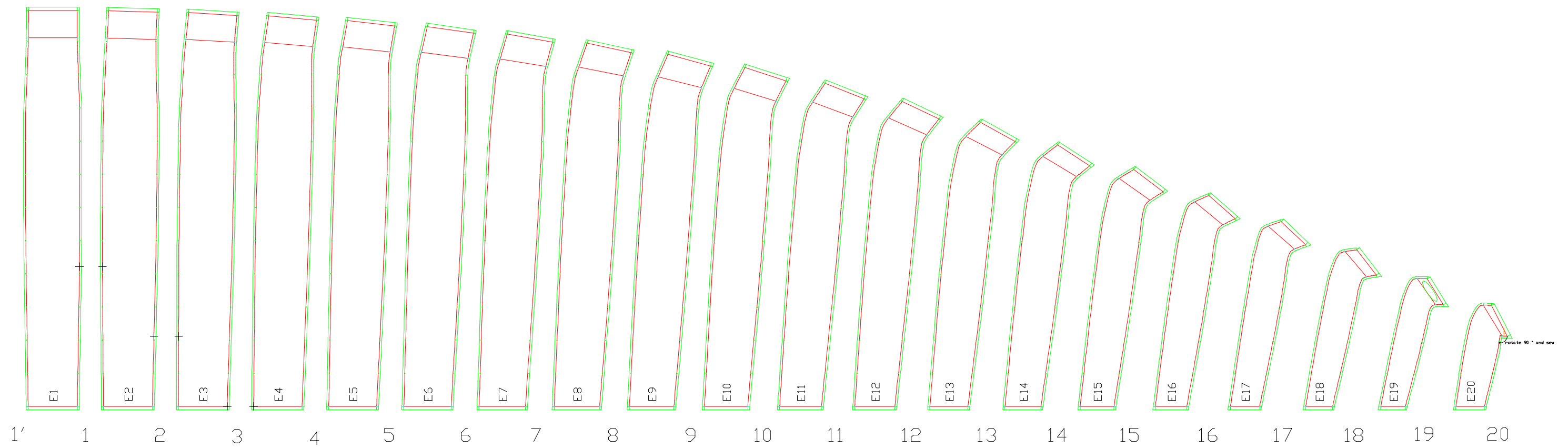
Laboratori d'envol BHL5-24
 Flat area (m2) : 24.00
 Flat span (m) : 11.65
 Flat aspect ratio : 5.66
 Cells number : 39
 Version : 20201208

1-1 PLANFORM AND VAULT



1-2 RIBS

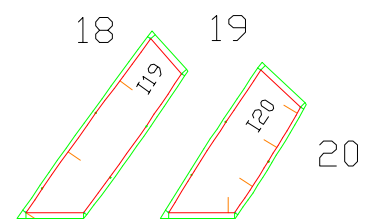
Leading edge



Trailing edge

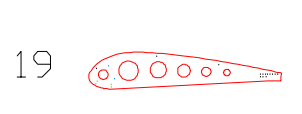
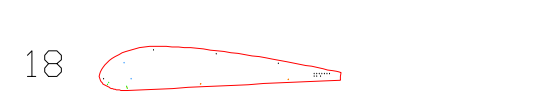
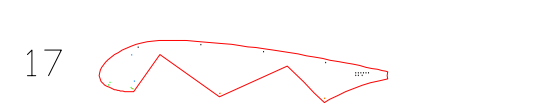
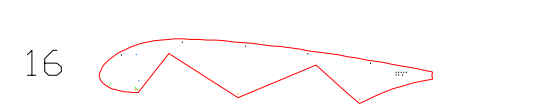
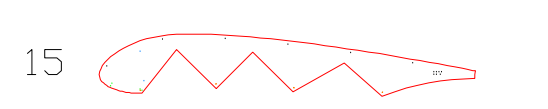
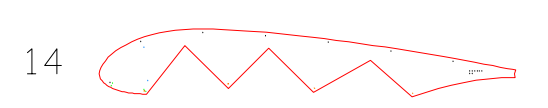
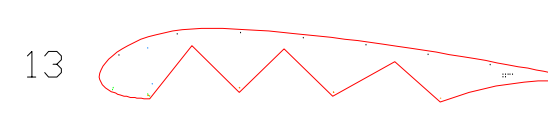
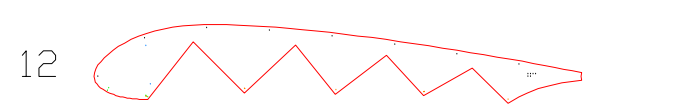
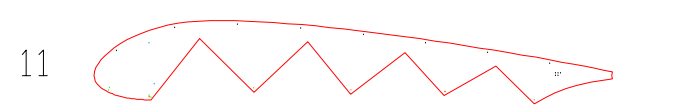
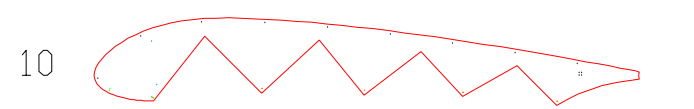
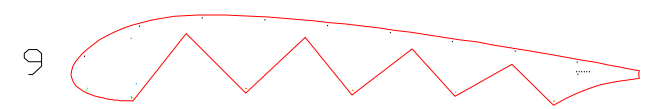
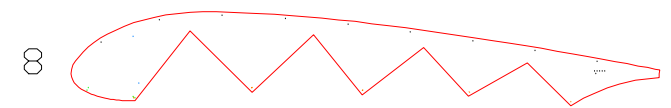
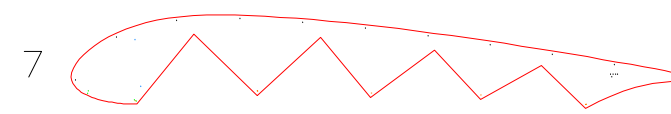
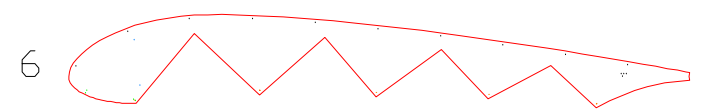
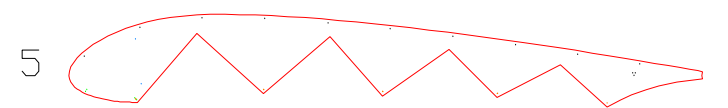
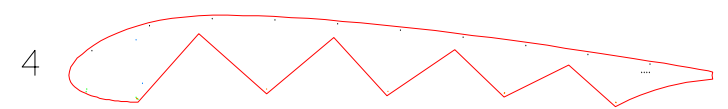
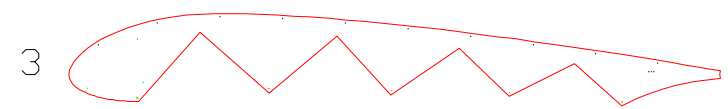
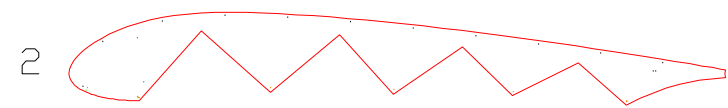
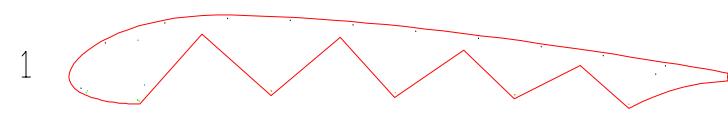
1-3 EXTRADOS PANELS

Trailing edge



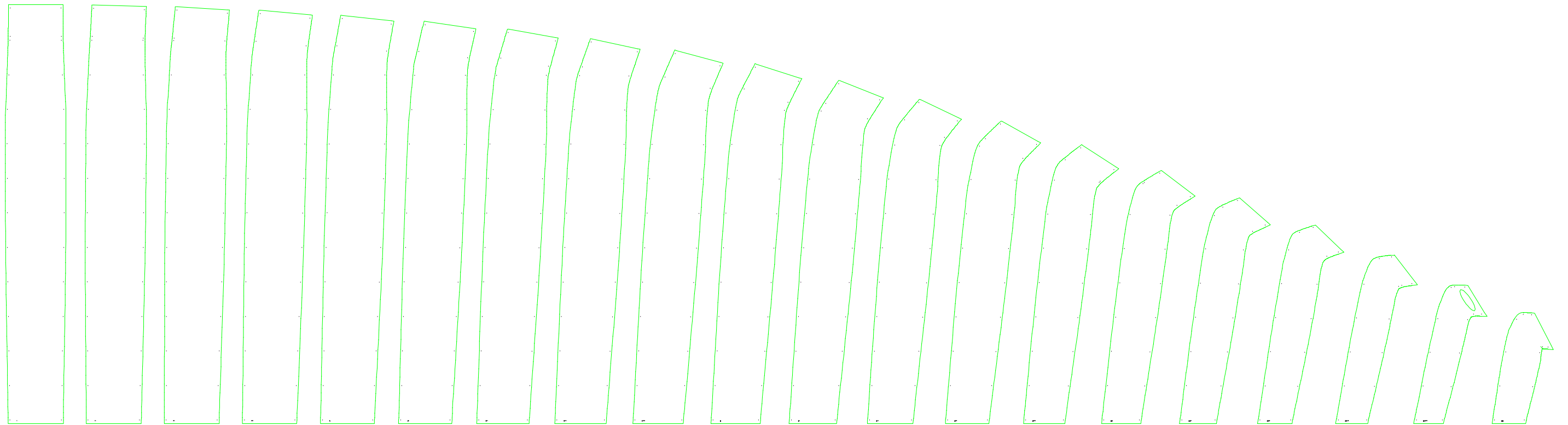
Leading edge

2-3 INTRADOS PANELS



1-4 RIBS (FOR CUTTING TABLE)

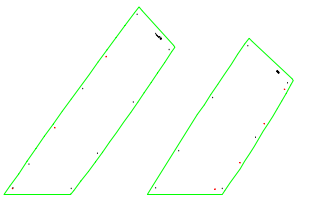
Leading edge



Trailing edge

1-5 EXTRADOS PANELS (FOR CUTTING TABLE)

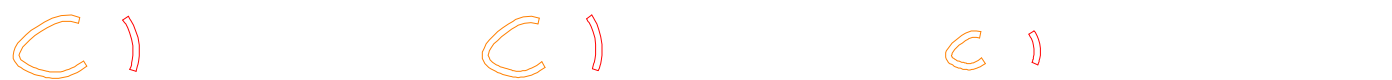
Trailing edge



Leading edge

2-5 INTRADOS PANELS (FOR CUTTING TABLE)

PRIMARY ROD SECONDARY ROD



List of primary nylon joncs (rods)

Jonc	1	65.6
Jonc	2	65.3
Jonc	3	64.8
Jonc	4	64.0
Jonc	5	63.5
Jonc	6	62.6
Jonc	7	61.5
Jonc	8	60.2
Jonc	9	58.1
Jonc	10	55.7
Jonc	11	53.0
Jonc	12	49.8
Jonc	13	46.3
Jonc	14	42.4
Jonc	15	38.3
Jonc	16	33.9
Jonc	17	30.2
Jonc	18	25.5
Jonc	19	20.2
Jonc	20	0.0

List of secondary nylon joncs (rods)

Jonc	1	22.3
Jonc	2	22.2
Jonc	3	22.0
Jonc	4	21.8
Jonc	5	22.4
Jonc	6	23.0
Jonc	7	23.4
Jonc	8	23.6
Jonc	9	22.8
Jonc	10	21.9
Jonc	11	20.7
Jonc	12	19.4
Jonc	13	18.0
Jonc	14	16.5
Jonc	15	14.8
Jonc	16	13.0
Jonc	17	13.0
Jonc	18	8.9
Jonc	19	7.0
Jonc	20	0.0

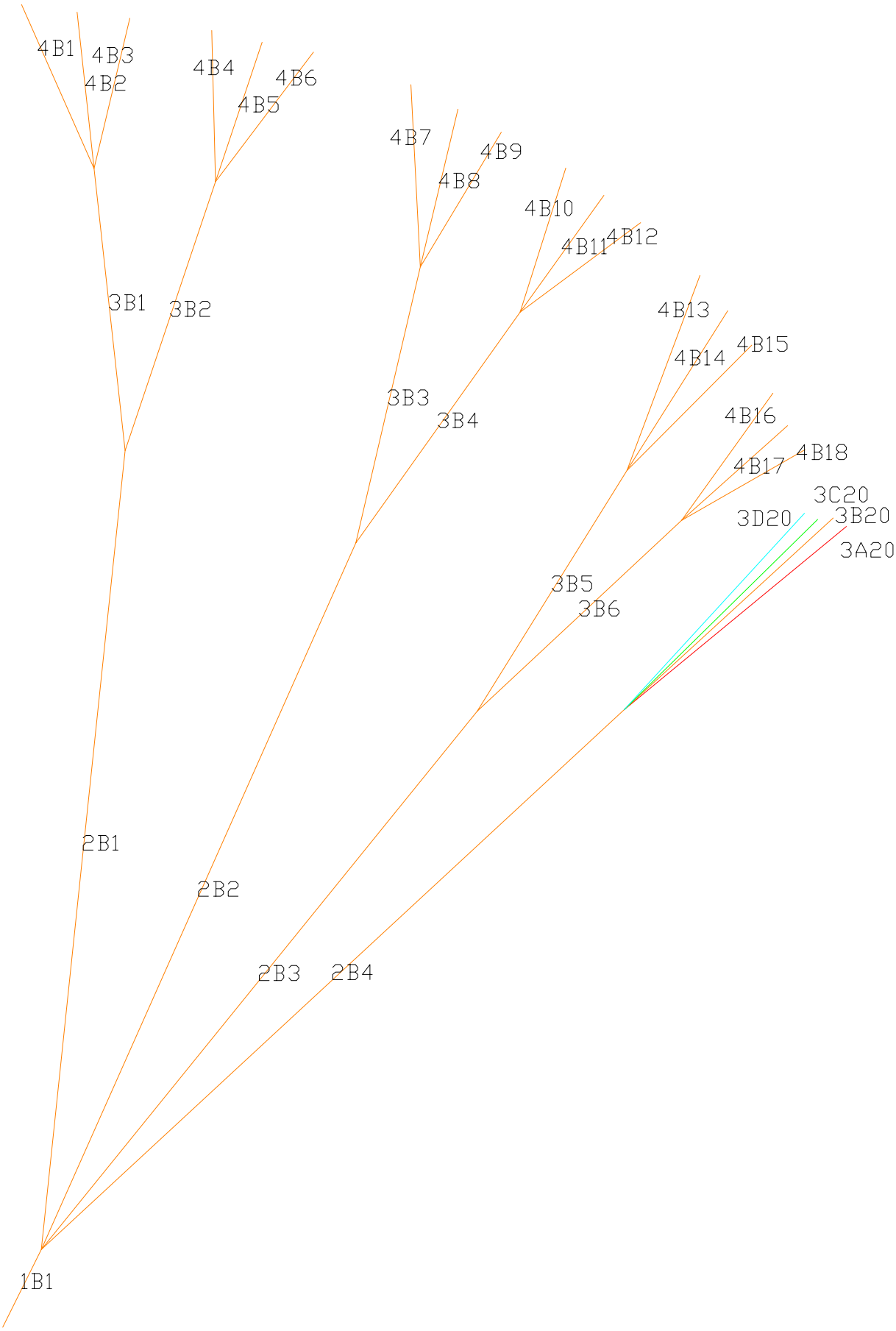
Line - Label - Length

1	1A1	47.0
2	2A1	401.6
3	2A2	387.7
4	2A3	360.8
5	3A1	152.8
6	3A2	152.8
7	3A4	152.8
8	3A5	152.8
9	3A6	152.9
10	3A7	152.9
11	4A1	123.0
12	4A2	112.1
13	4A3	110.7
14	4A4	109.0
15	4A5	106.7
16	4A6	113.9
17	4A7	122.9
18	4A8	112.7
19	4A9	110.2
20	4A10	107.3
21	4A11	103.7
22	4A12	107.3
23	4A13	125.7
24	4A14	115.5
25	4A15	110.1
26	4A16	103.7
27	4A17	96.5
28	4A18	94.8



Line - Label - Length

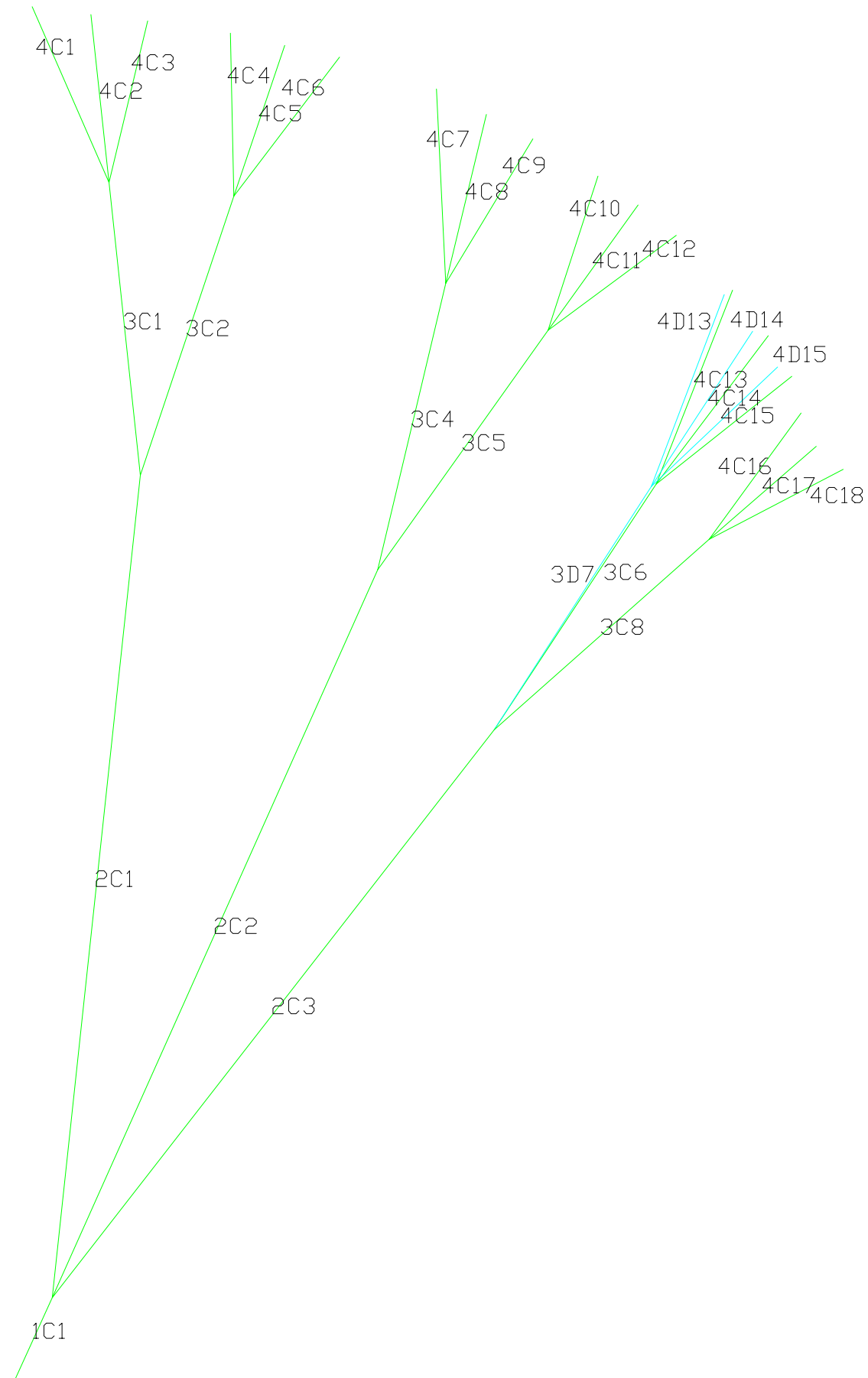
29	1B1	47.0
30	2B1	432.6
31	2B2	416.6
32	2B3	374.8
33	2B4	435.0
34	3B1	152.8
35	3B2	152.8
36	3B3	152.8
37	3B4	152.8
38	3B5	152.9
39	3B6	152.9
40	3A20	155.1
41	3B20	153.7
42	3C20	154.1
43	3D20	156.1
44	4B1	96.7
45	4B2	84.8
46	4B3	83.2
47	4B4	81.5
48	4B5	79.3
49	4B6	87.6
50	4B7	98.3
51	4B8	87.3
52	4B9	84.8
53	4B10	81.5
54	4B11	77.5
55	4B12	81.5
56	4B13	112.4
57	4B14	101.9
58	4B15	95.9
59	4B16	85.1
60	4B17	78.4
61	4B18	79.5



3-3 LINES B

Line - Label - Length

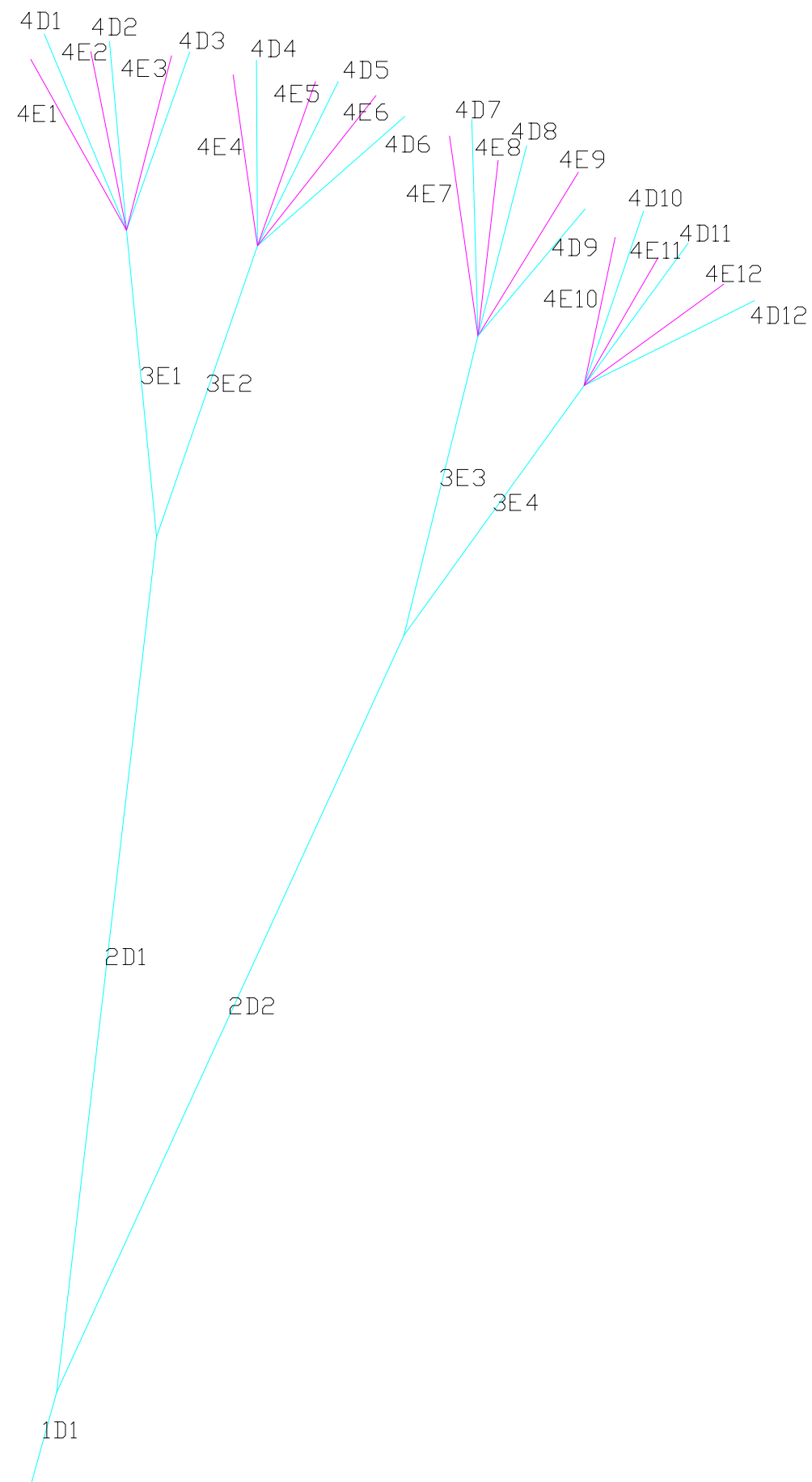
62	1C1	47.0
63	2C1	429.8
64	2C2	414.8
65	2C3	377.8
66	3C1	152.9
67	3C2	152.9
68	3C4	152.9
69	3C5	152.9
70	3C6	152.9
71	3D7	153.0
72	3C8	153.0
73	4C1	99.6
74	4C2	87.9
75	4C3	86.5
76	4C4	84.9
77	4C5	82.8
78	4C6	91.1
79	4C7	101.0
80	4C8	90.4
81	4C9	88.0
82	4C10	84.6
83	4C11	80.6
84	4C12	83.8
85	4C13	108.1
86	4C14	98.2
87	4C15	92.7
88	4D13	109.0
89	4D14	98.8
90	4D15	93.0
91	4C16	84.0
92	4C17	76.9
93	4C18	80.9



3-4 LINES C

Line - Label - Length

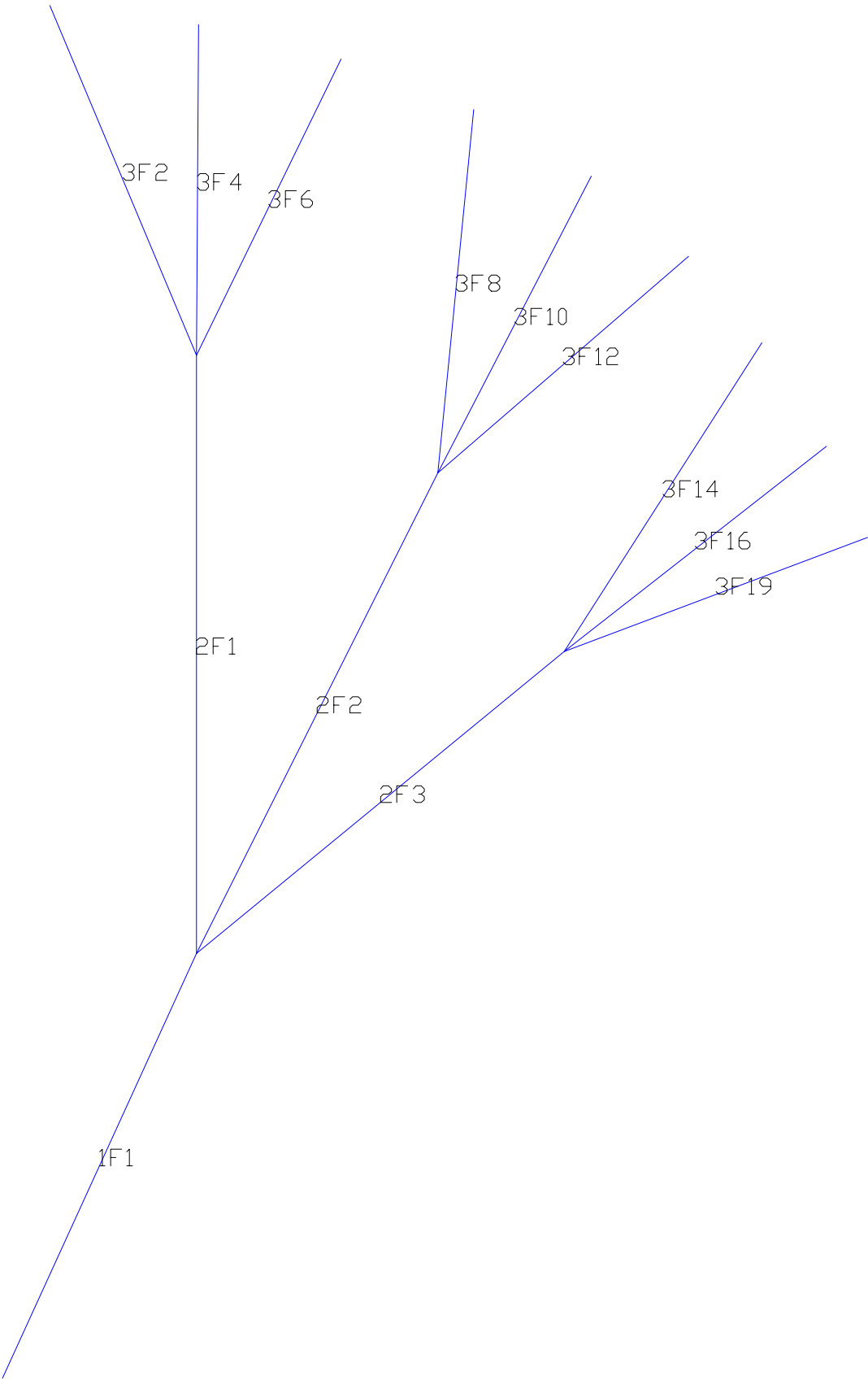
94	1D1	47.0
95	2D1	427.8
96	2D2	413.8
97	3E1	152.9
98	3E2	152.9
99	3E3	152.9
100	3E4	152.9
101	4D1	104.3
102	4D2	93.2
103	4D3	92.1
104	4E1	109.8
105	4E2	99.1
106	4E3	97.9
107	4D4	90.8
108	4D5	89.1
109	4D6	97.3
110	4E4	96.7
111	4E5	94.6
112	4E6	102.1
113	4D7	106.3
114	4D8	96.2
115	4D9	94.1
116	4E7	111.3
117	4E8	101.1
118	4E9	98.6
119	4D10	90.6
120	4D11	86.5
121	4D12	88.9
122	4E10	94.8
123	4E11	90.1
124	4E12	91.5



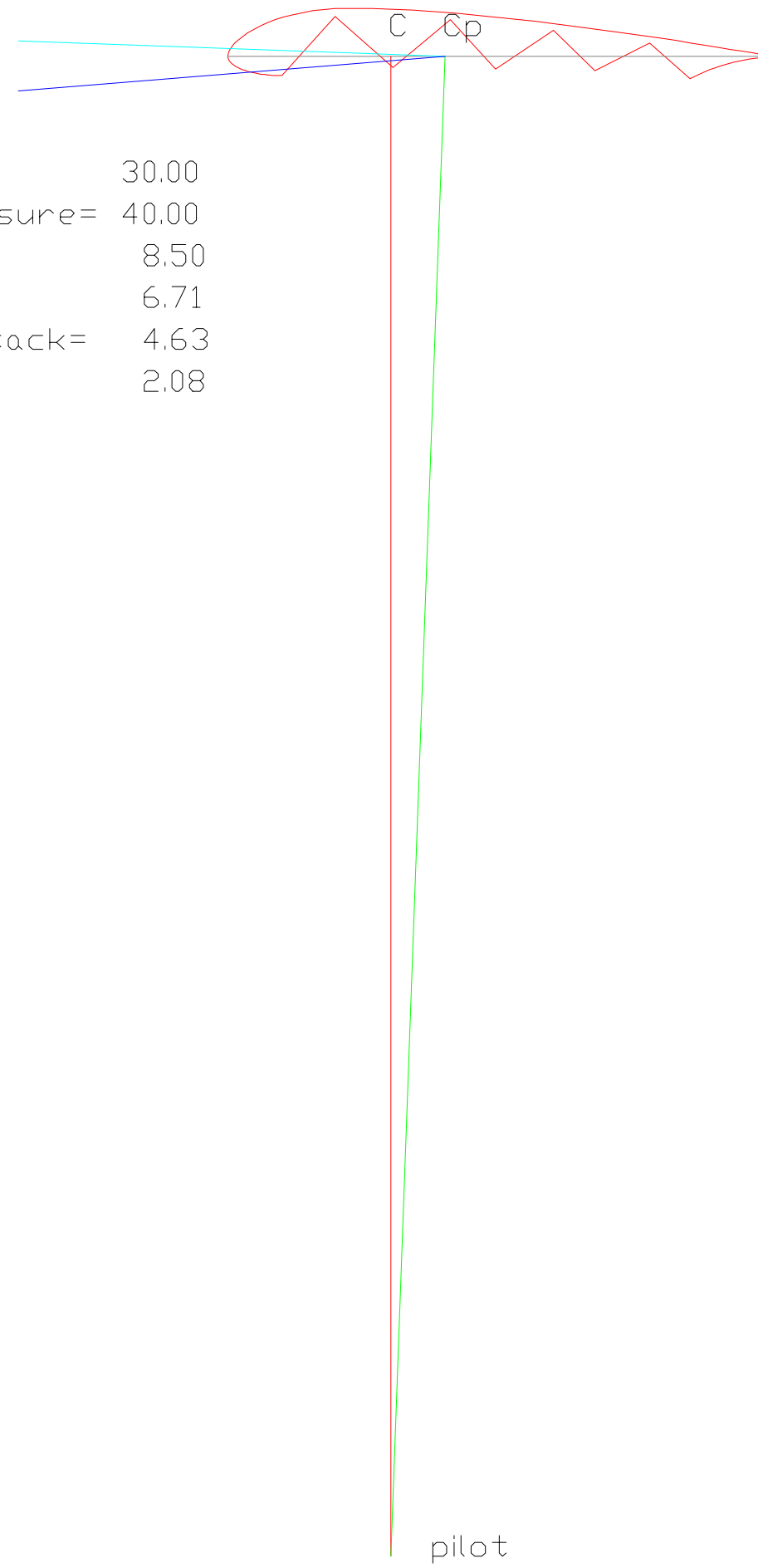
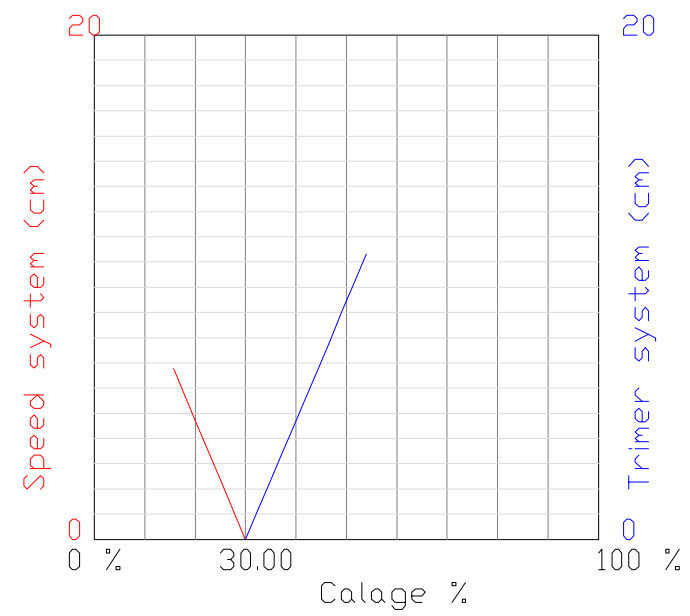
3-5 LINES D

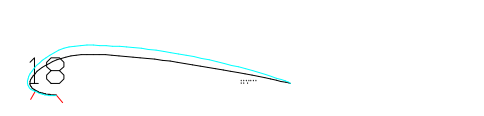
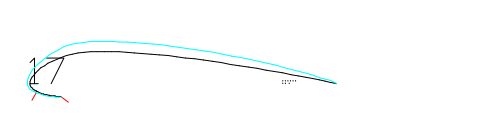
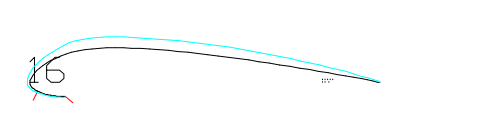
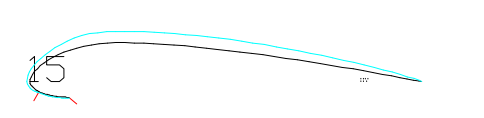
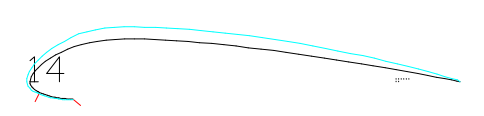
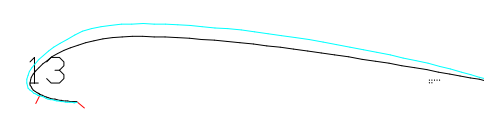
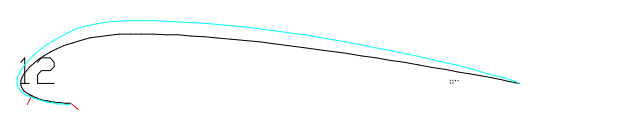
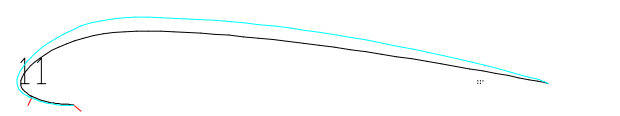
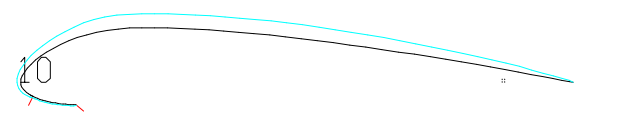
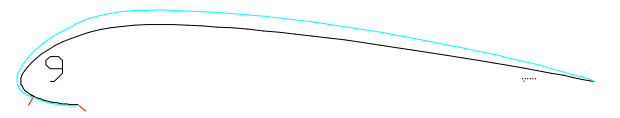
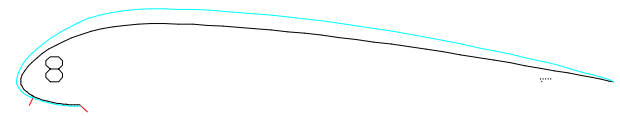
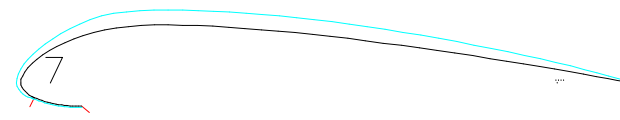
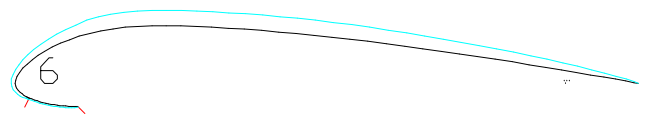
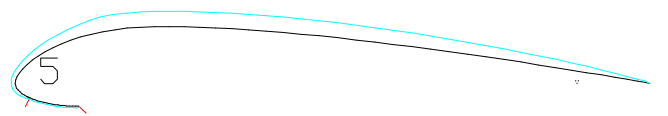
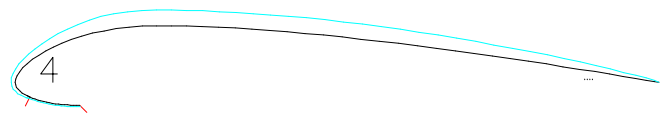
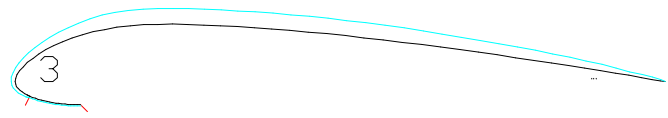
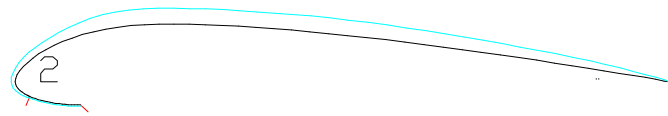
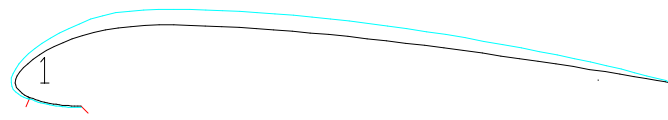
Line - Label - Length

125	1F1	235.0
126	2F1	301.0
127	2F2	270.0
128	2F3	237.0
129	3F2	190.0
130	3F4	166.3
131	3F6	165.3
132	3F8	183.5
133	3F10	167.5
134	3F12	164.9
135	3F14	183.9
136	3F16	165.7
137	3F19	159.8

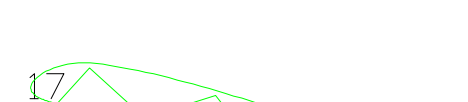
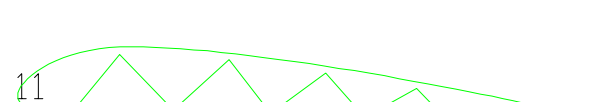
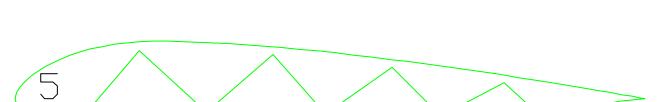
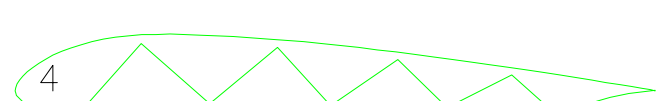
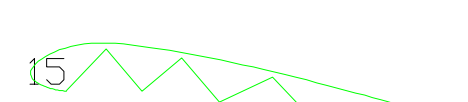
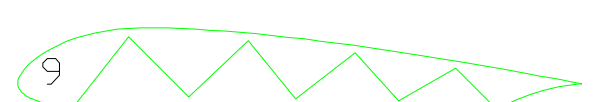
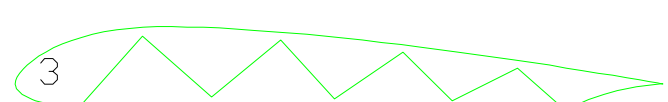
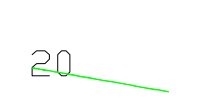
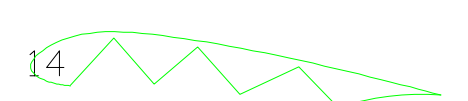
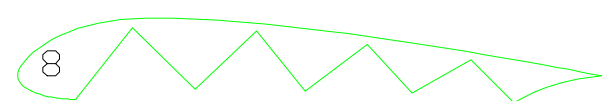
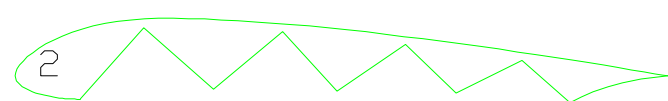
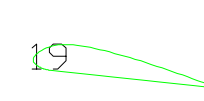
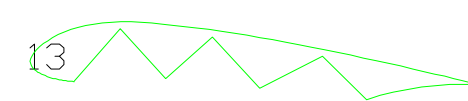
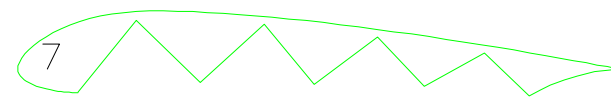
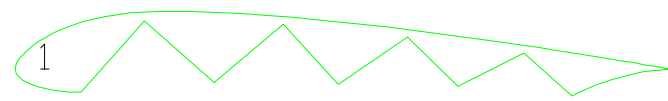


calage= 30.00
center pressure= 40.00
glide ratio= 8.50
glide angle= 6.71
angle of attack= 4.63
assiette= 2.08





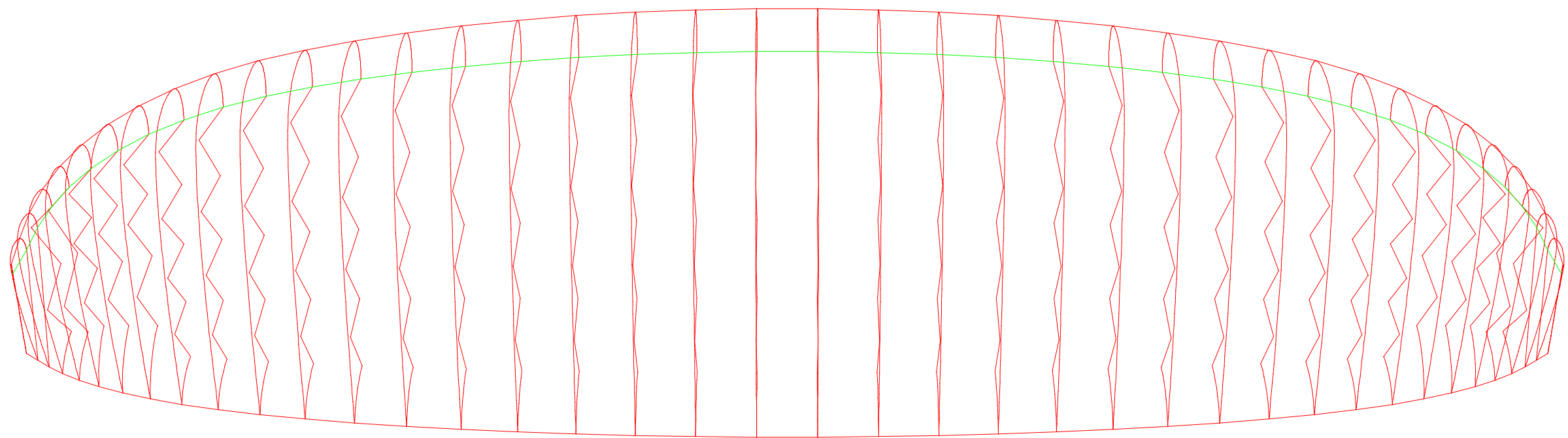
1-8 MIDDLE AND MIDDLE OVALIZED AIRFOILS



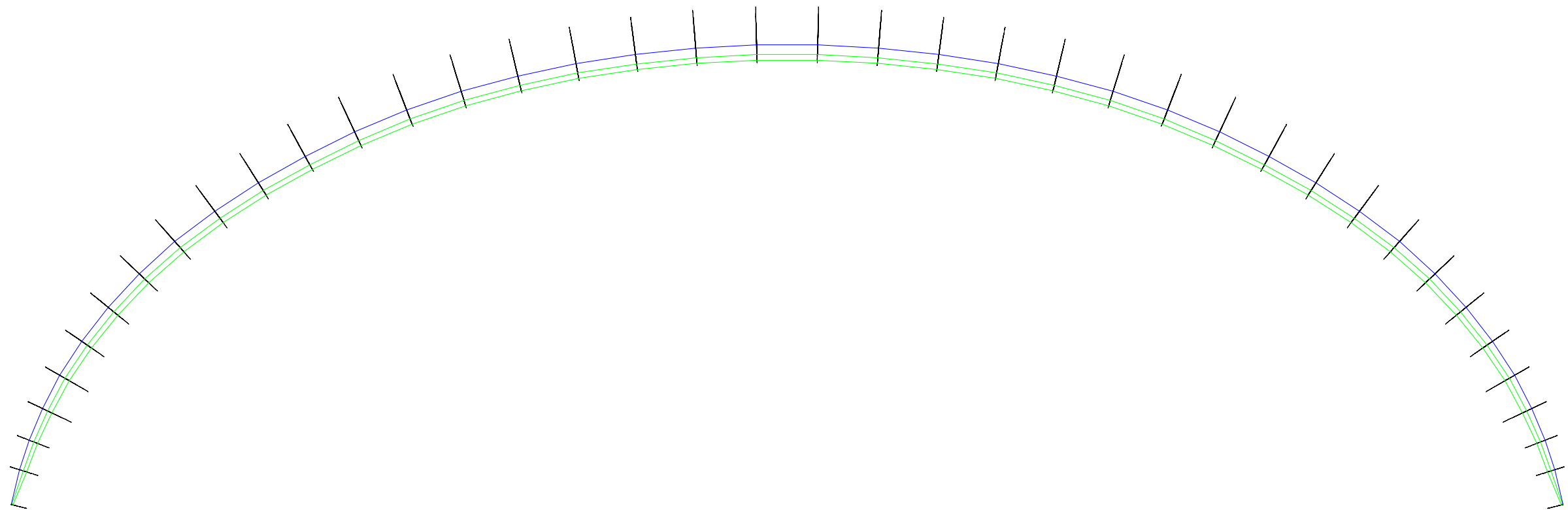
2-2 RIBS WASHIN ANGLE



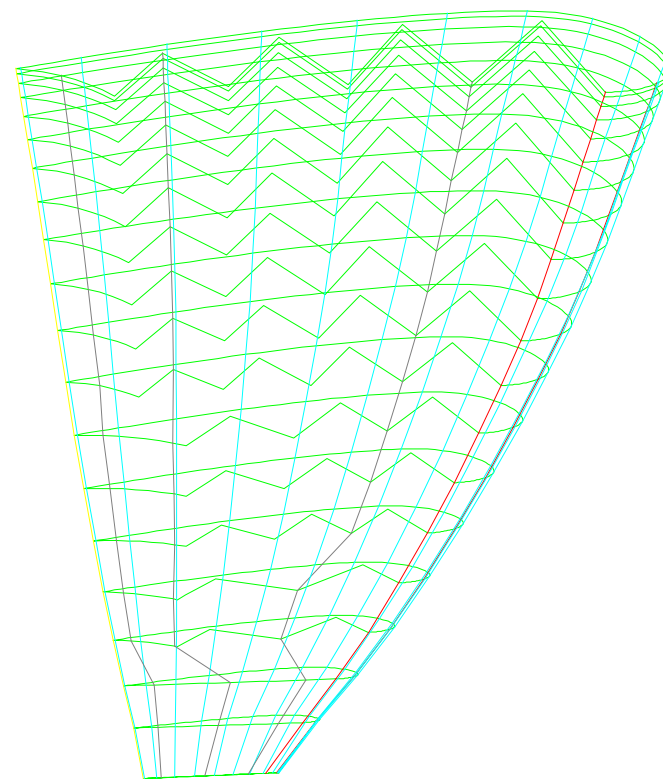
les bandes horizontales ne sont pas indispensables



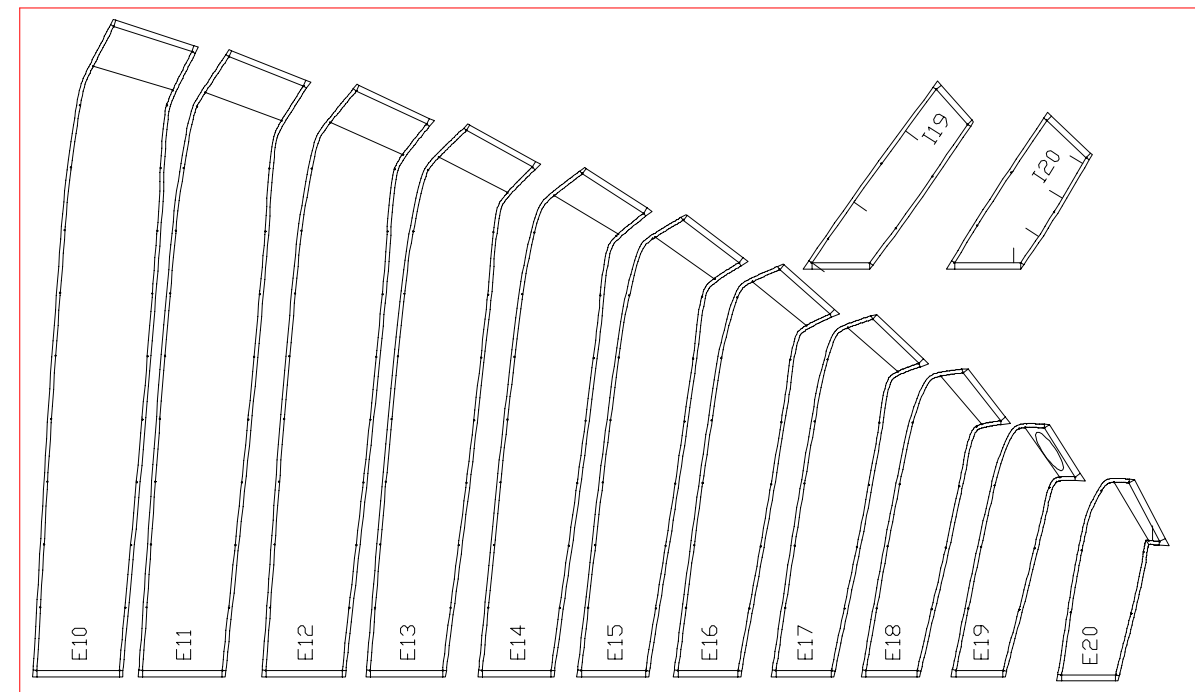
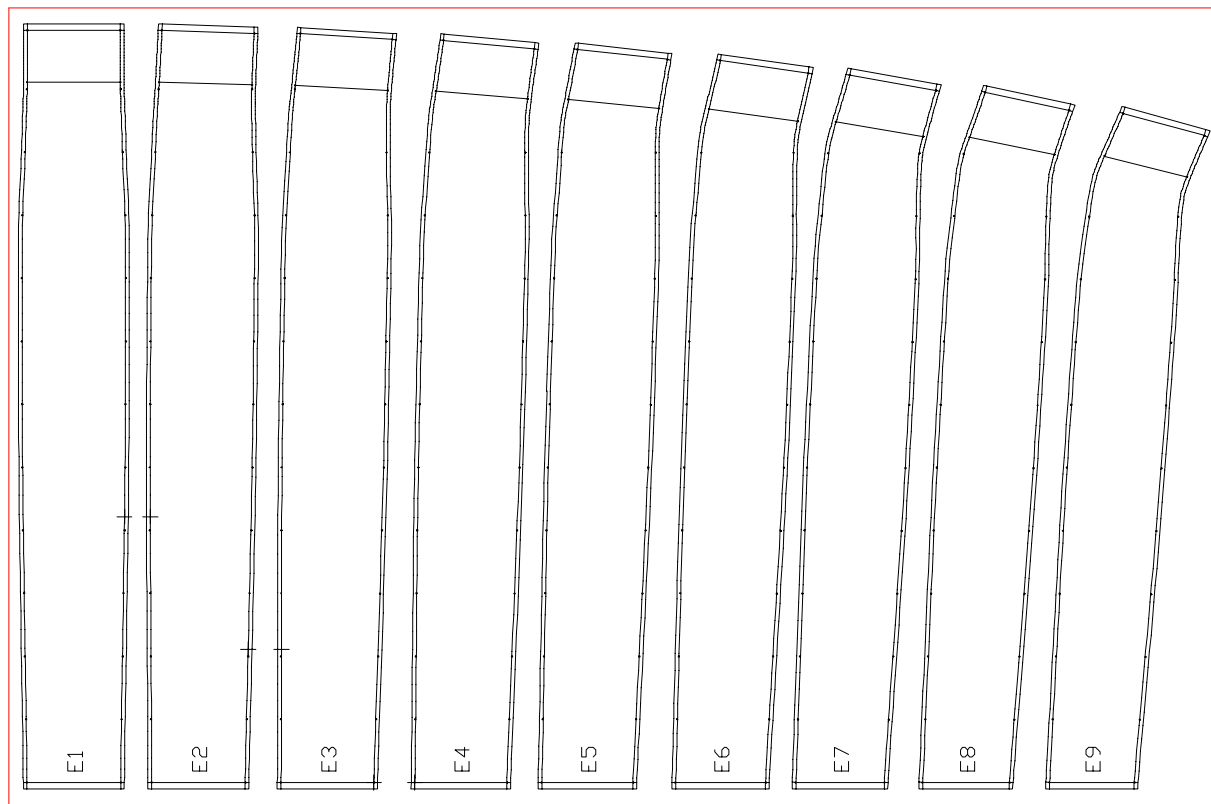
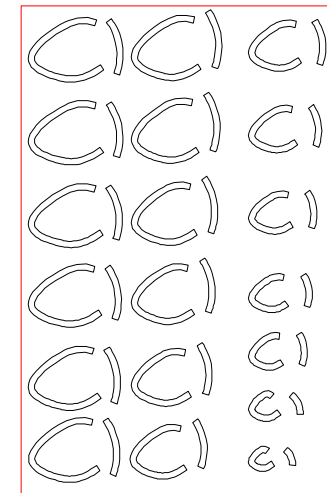
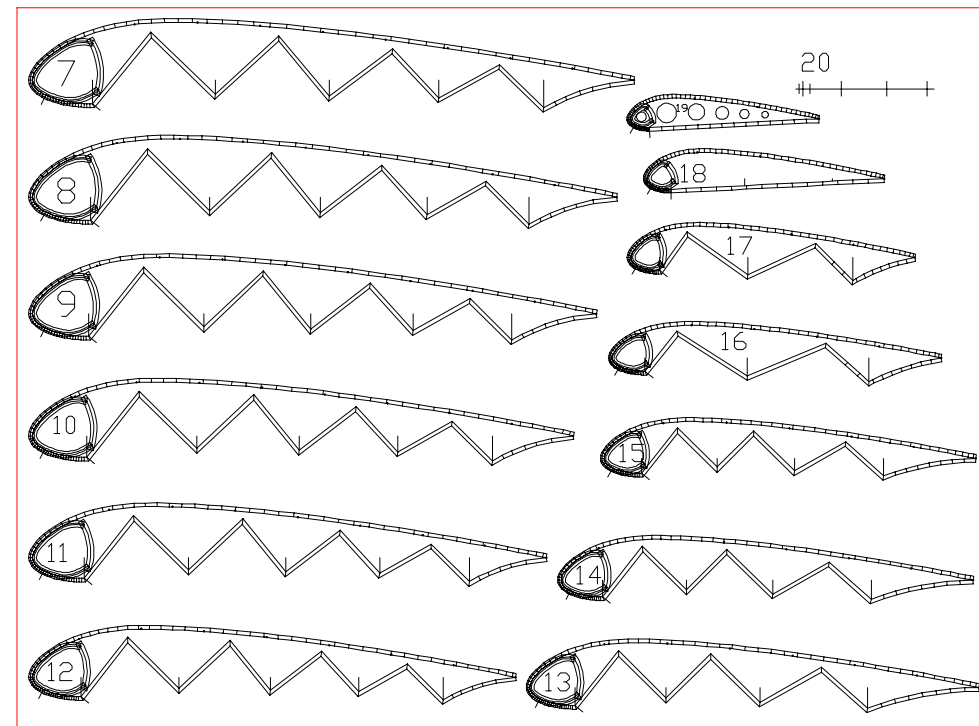
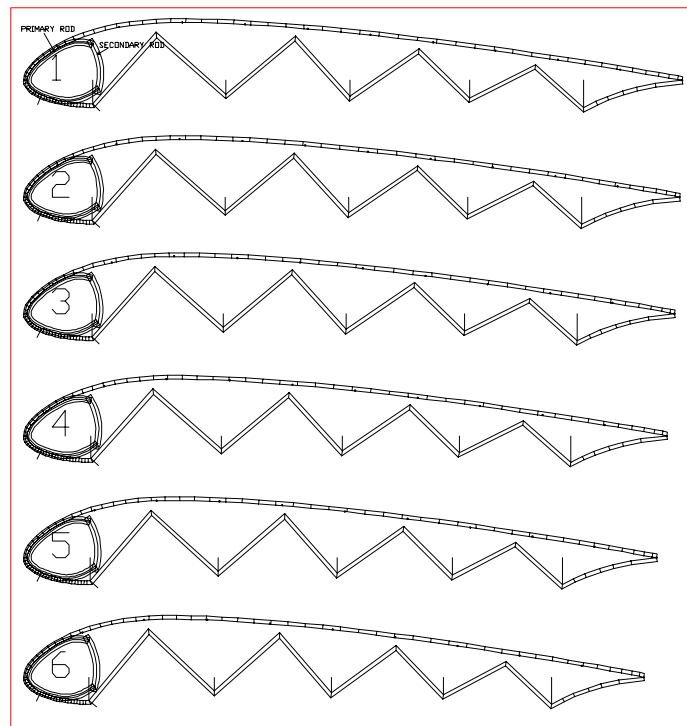
3-1 UPPER VIEW



4-1 VAULT VIEW



4-2 LATERAL VIEW



3-8 PARTS 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	=	.....