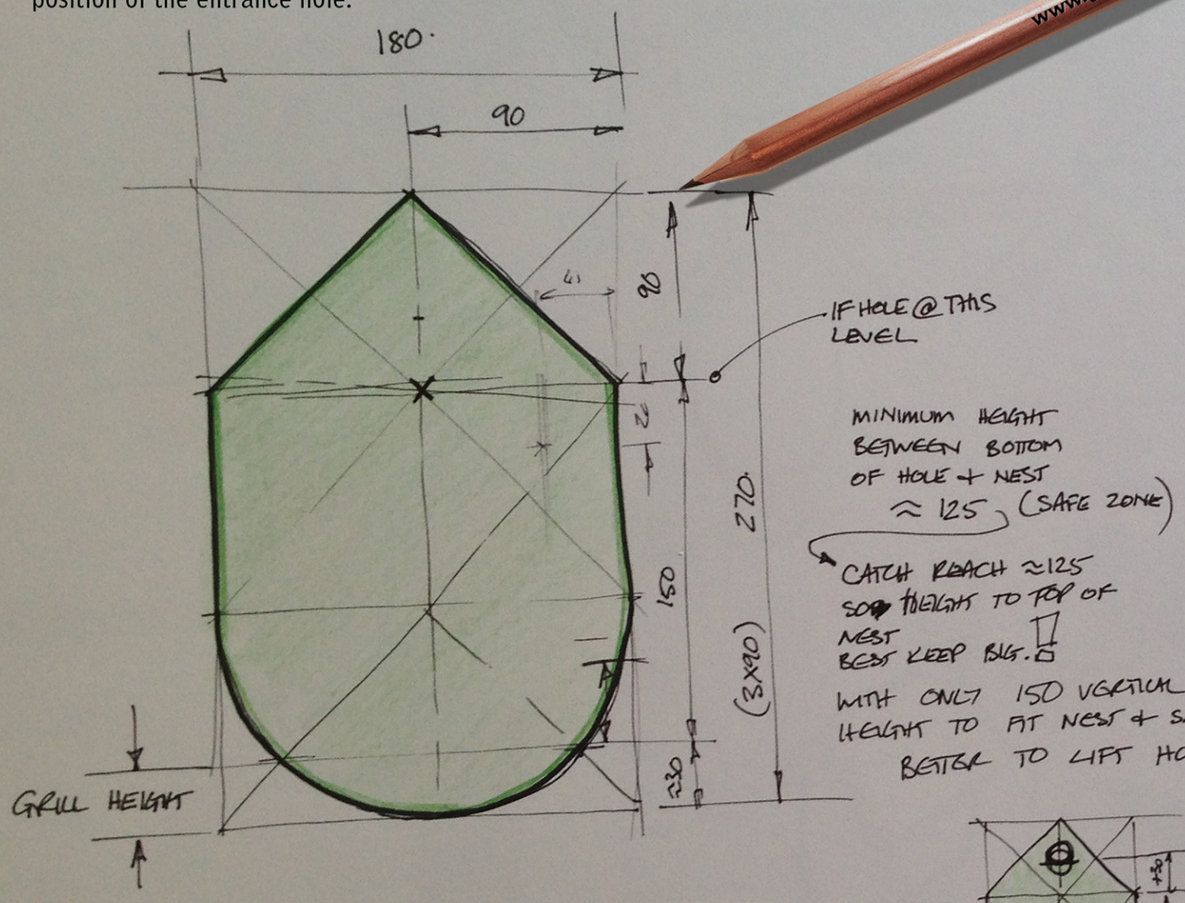
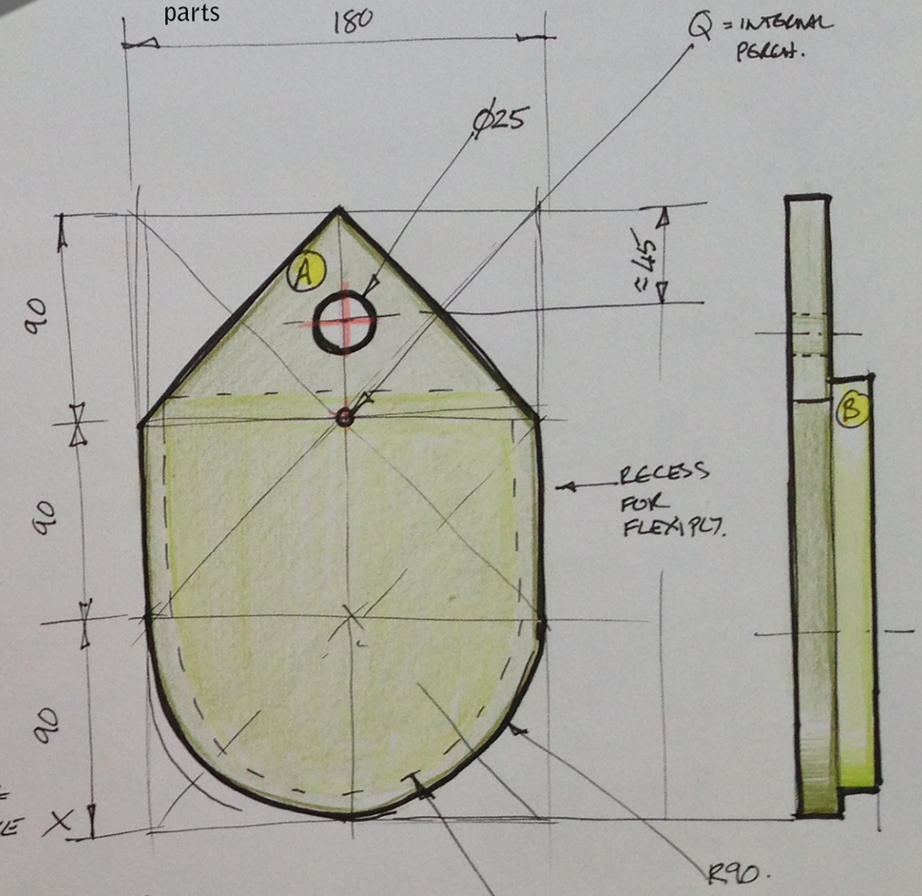
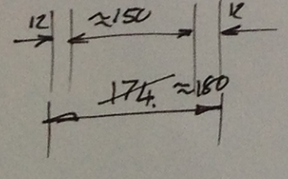
This page is where the dimensions were worked out. Firstly the left hand sketch was used to recap the overall sizes from earlier in the folio. Some decisions had to be worked out, for example how far the chicks in the nest should be from the entrance whole, where preditors could gain access. Alowances for the thickness of materials being used and size and position of the entrance hole.

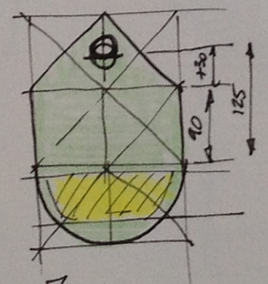




The right hand orthographic sketches were enhaced using colour to identify part, and link these to short notes alongside the drawing. Thses will for the basis of the marking out of the main parts

WIDTH REQUIRE ≈ 150mm × 150mm
WALL THICKNESS ≈ 12mm





HOLE NOW MOVED UP CLOSER TO APEX (POINTY BIT)

TO BASE OF HOLE (NOT THE CENTRE)

NO EXTERNAL PERCH

BUT AN INTERNAL ONE WOULD PROTECT THE CHICKS FROM CAT ATTACK. INTERNAL PERCH POSITION. Q

DIAMETER
RADIUS OF INNER ARCH
180 − (2 × 12mm THICK)
Ø = 180 − 24
Ø = 156
R = 78

2 @ PART A (OUTER ARCH) = 270 × 180 × 12
2 @ PART B (INNER ARCH) ≈ 156 × 156 × 12
PART C (ARCH FLEXI PLY) = FLAT + FLAT + SEMI CIRCLE
= 90 + 90 + (3.14 × 156/2)
= 424 × 150 × 12 FLEXI PLY.