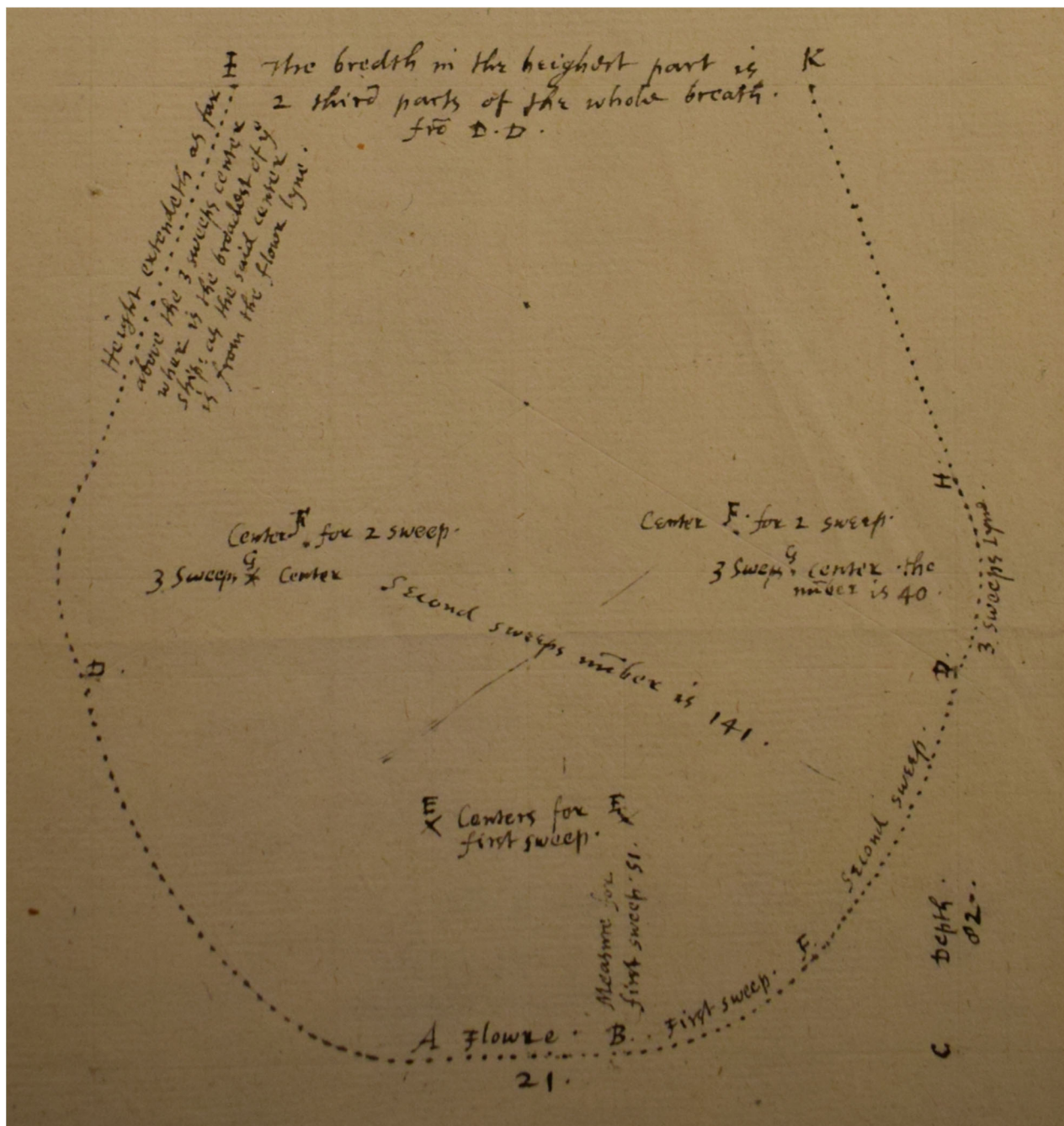


MATTHEW BAKER'S DESCRIPTION OF DRAWING A MID-SHIP SECTION, from contemporary document in the BL

Directions to draw plots for midship moulds by the scale.

First draw a straight lyne in the bottom of your paper and then by devyding your said lyne from the center into 2 equal parts and placing the foote of the compass in the extreame points draw 2 semicircles and by their cutting draw a perpendicular to the center of the lyne. Then setting your compass at what breath you please to have the half breadth of your plott (the number of feet which you purpose to make the bredth of your ship) draw thereby the 2 syds parallels to the perpendicular and next by your compass to sett open your scale to the breadth therof in ether foote doe strike in the point of 90 uppon ether syde: and at this breadth your scale must continue fixed without change for the whole worke. This dunn you must seeke in your proportions of ships the number of the depth proportionable to the breth: For exemple the depth of the Merhonere is 82: to the measure of this number uppon both syds your scale you must open your compasses and having the first [first?] measure place the one foote in the extreme points of the grownd Lyne and with the other uppon the syde lines marck the depth by drawing a parallel with the grownd lyne from those 2 points which maketh the first lyne of breadth but not at the largest of the mould. The depth being thus fownd: give your compass a new measure uppon the scale by placing ether foote at the op: numbers of the flowr which is 21. That breadth of the compass is but half the flowr and therefore by placing one foote in the perpendicular first where it cutteth the grownd lyne and then where it cutteth the lyne of bredth with the other foote you must point out the ful breadth of the flowr by equal distances and lynes drawn on both syds of the said perpendicular. Again change your compas to the number of the first sweep uppon the scale which is 51 and then placing one foote uppon the point of the bredth of the flowr in the grownd lyne: with the other fynd uppon both the lynes ~~perpendicular~~ parallel to the perpendicular the center where fixing the said other foote draw from both the points of the said flowr 2 semicircles towards ether syde of the plott. Then to make the second sweep find the measure by the number therof uppon the scale which is 141 or rather the one half therof because the scale is not so long: and then uppon your paper open your said compass to the double which is 141: and place the one foote in the point where the lynes of depth and breadth doe meet in the outmost sydes: and with the other foote draw a semicircle: an therin then find a center from which your compass so standing may draw a semicircle from the circle of the first sweep to cut directly in the said point where the lynes of the breth and depth do meet. For the third sweep fynd the distance also by the compas uppon at the number of 40 and then ~~place one foote~~ draw 2 straight lynes from the outmost points where the lynes of bredth and depth did meet ~~to through the centers of the second sweep~~ to cross in the perpendicular: and then placing one foote ~~in the said points of meeting~~ (at the point where those lynes meet in the syde or breadth) point out with the other in those lynes the centers of the third sweep: and by the other foote of the compas draw from the point of meeting the semicircle for the third sweep til it cut again the lateral lynes. The sweeps being thus drawn the whole heigt must be described by a straight lyne fownd out paralel to the first grownd lyne distant from the same double so far as the center of the 3 sweep is from the grownd lyne: and then placing your compas at the distance of the third part of the grownd ~~or bredth~~ lyne, devyde th said top lyne from the perpendicular into 2 parts and from the points draw straight lynes so the points in the syde lynes where the semicircle of the 3 sweep cutteth in them: and so you have the perfect plott of a midship mould.

The Plott of the Merhoney



[note on rear] 1600 Jann: 10

Mr Bakers directions for the drawing of the plots of midship moulds by his scale