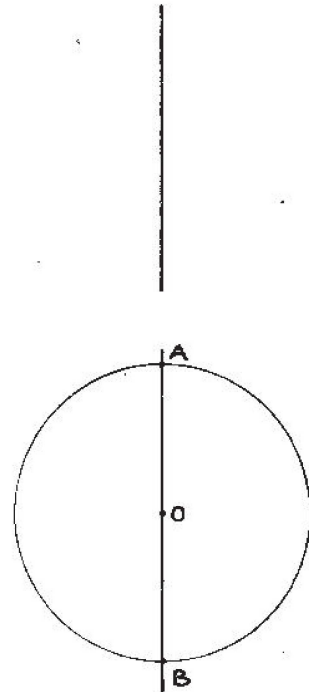# THE GEOMETRIC CONSTRUCTION OF THE DOUBLE DIAMOND USING ONLY RULER AND COMPASS.
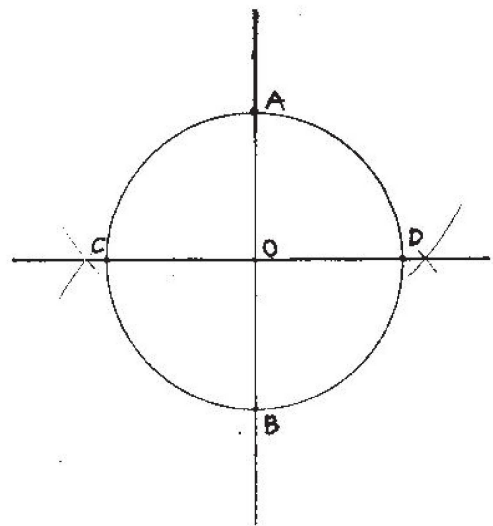
STAGE 1

STEP 1: In the middle of the page draw a vertical straight line.

STEP 2: Placing the point of the compass at a point "O" roughly in the middle of the line draw a circle which will cut the line at two points "A" and "B".
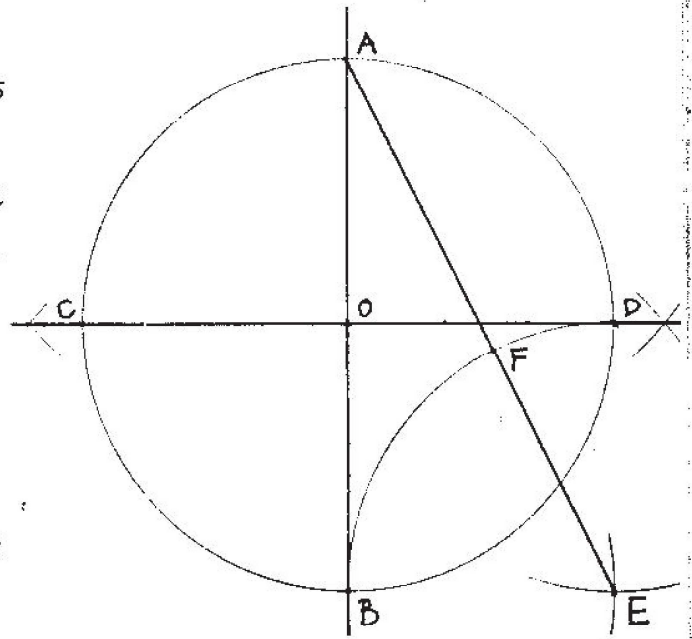
STEP 3: Draw a line perpendicular to "AB" passing through the centre of the circle. To do this widen the span of the compass, place its point at point "A" and draw arcs on either side of the circle. Using the same span of compass repeat the same at point "B". Draw a line through the points where the arcs intersect; the line will pass through the centre of the circle touching it at points "C" and "D". Line "CD" is perpendicular to line "AB".
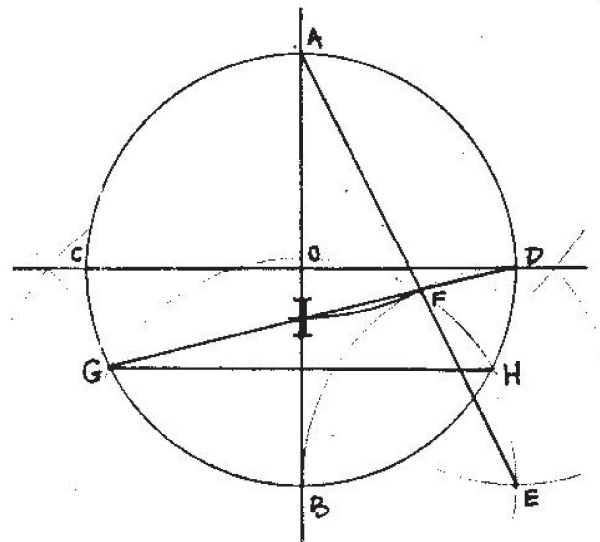
STEP 4: Having divided the circle into four equal pats, with centre "B" and radius "BO" draw an arc at the height of point "B". With centre "D" and radius "BO" draw an other arc at the height of point "D". The two arcs will intersect at point "E". Thus an imaginary square has been formed the corners of which are points "O", "D", "E", "B".

Draw a line connecting points "A and "E". With centre "E" and radius "EB" draw an arc which disects line "AE" at point "F". Now the geometric seeds for the construction of the double diamond have been sown.
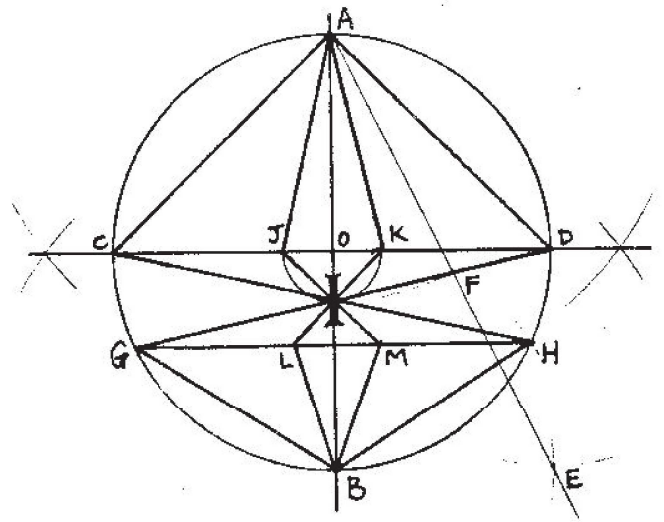

STEP 5: With centre "A" and radius "AF" draw an arc which will dissect line "AB" at point "I" ("I" stands for ego). Draw a line from "D" through "I" which touches the circumference of the circle at point "G". With centre "B" and radius "BG" transfer "G" to its mirror position "H".

STEP 6 : With centre "O" and radius
"OI" draw an arc which will cut line "CD"
at points "J" and "K".

At this point all the necessary points
for the geometric construction of the
double diamond have been found. The
external form is virtualy complete.

So join up the following lines: "AC", "AD",
, "AJ", "AK", "CH", "GB", "HB". Draw lines from
"J" and "K" passing through "I" and touch
line "GH" at point "L" and "M". Finally
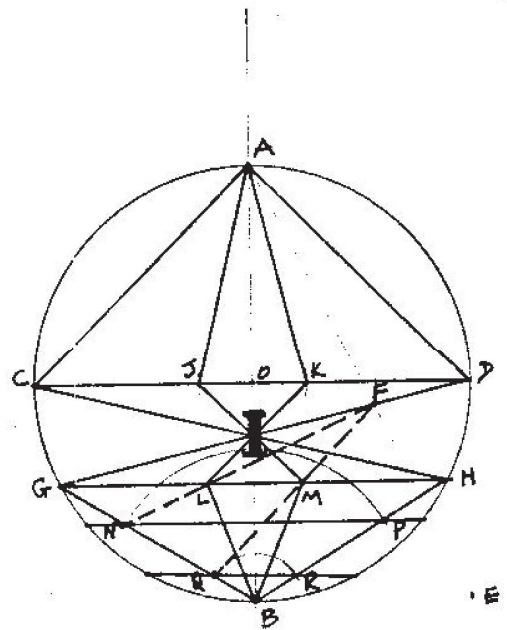join "L" and "M" to point "B".

STAGE 2

So far the form of the double diamond
has been completed. If you wish to
find out how the various levels within
the double diamond are built, follow
the next series of geometric steps:....

STEP 7 Draw a line from "F" through "L"
till it cuts line "GB" at point "N". With centre
"B" and radius "BN" transfer "N" to its mirror "P"
on line "BH". Draw a line through "N"and "P"
touching either side of the circumference.
Draw a line from "F" through "M" till it touches
line "GB" at point "Q". With centre "B" and radius "BQ"
transfer "Q" to its mirror "R" on line "BH". Draw a line
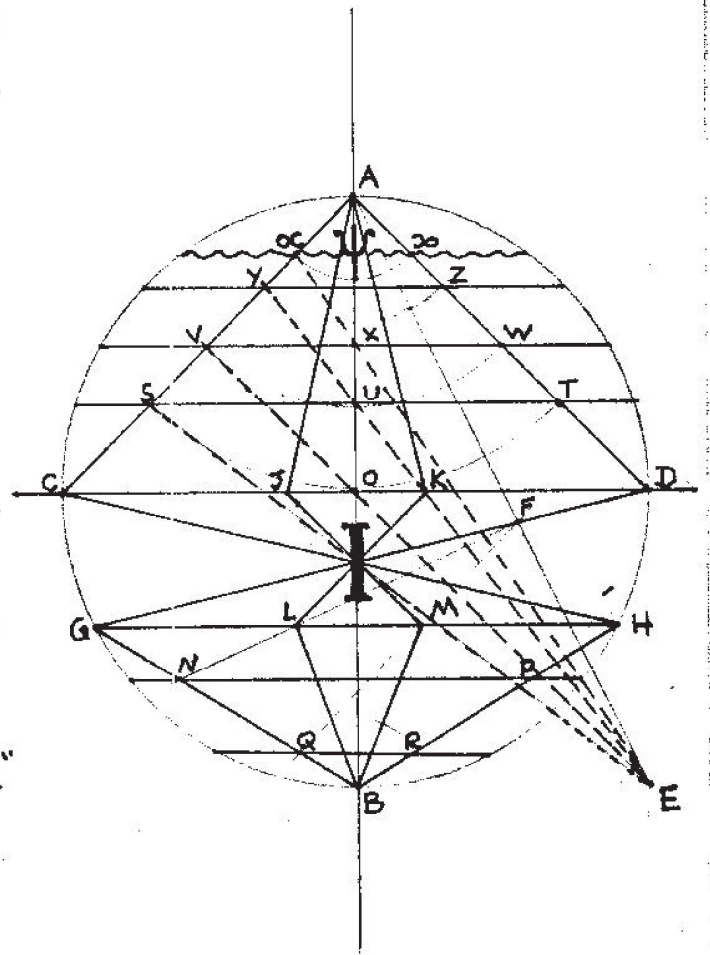through "Q" and "R" touching either side of the circle

STEP 8 : Having completed the lower
phase of the double diamond, proceed
as follows to construct the upper half.
Draw a line from point "E" through "I"
till it cuts "AC" at point "S". With centre
"A" and radius "AS" transfer "S" to its mir-
ror "T" on line "AD". Draw a line through "S"
and "T" cutting the circumference at either
side. Where line "ST" intersects the vertical
axis "AB" mark point "U".
Draw a line from point "E" through the
centre "O" till it cuts "AC" at point "V".
With centre "A" and radius "AV" mark
its mirror "W" on line "AD". Draw a line
through "V" and "W" cutting the circumfe-
rence on either side. Where line "VW"
intersects the axis "AB" mark the point
"X".
Draw a line from "E" through point
"U" till it touches line "AC" at point "Y".
With centre "A" and radius "AY" mark
its mirror "Z" on line "AD". Draw a line
through "Y" and "Z" till it touches
the circumference.
Draw a line from "E" through "X"
till it touches line "AC" at "∝". Find
its mirror on line "AD" by the arc
whose centre is A and radius "A∝". Its
mirror is "∞". Connect "∝" and "∞" by
a wigely line which touches the circumfere-
nce. At the centre of "∝∞" write the letter "Ψ". (psyche).

STAGE 3

<u>STEP 9</u>: The actual construction of the double diamond has been completed. Erase all construction lines, ink in the double diamond. If you wish you may draw in the three Saros stars as shown below.

Once you have finished the drawing pause; mentally go back through all the different stages of construction; What qualities are there in each stage? What does it all mean?

The names of all the levels of the double diamond are given below. The names for the actual points of the double diamond have to be given by you. What happened to point F, dependent on which the whole double diamond has been constructed?

The mathematical relationships and golden sections will be dealt with in a future paper on "sacred" geometry.

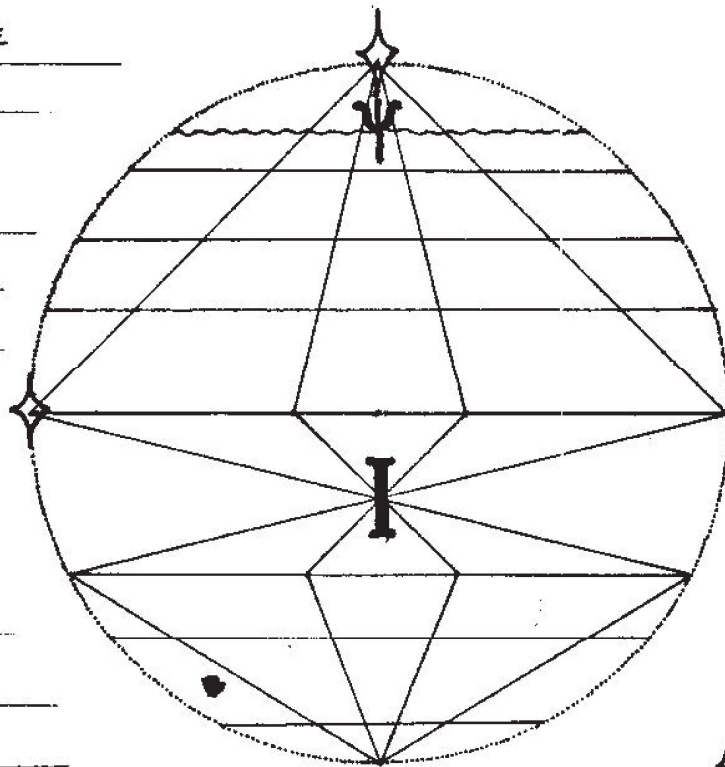THE CREATIVE

Will

Motivation
True thought
meaning
association

Conditioning
Interaction
Instict

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1985