

CE 102: CIVIL ENGINEERING DRAWING



PLANE GEOMETRY

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CHAPTER – 1

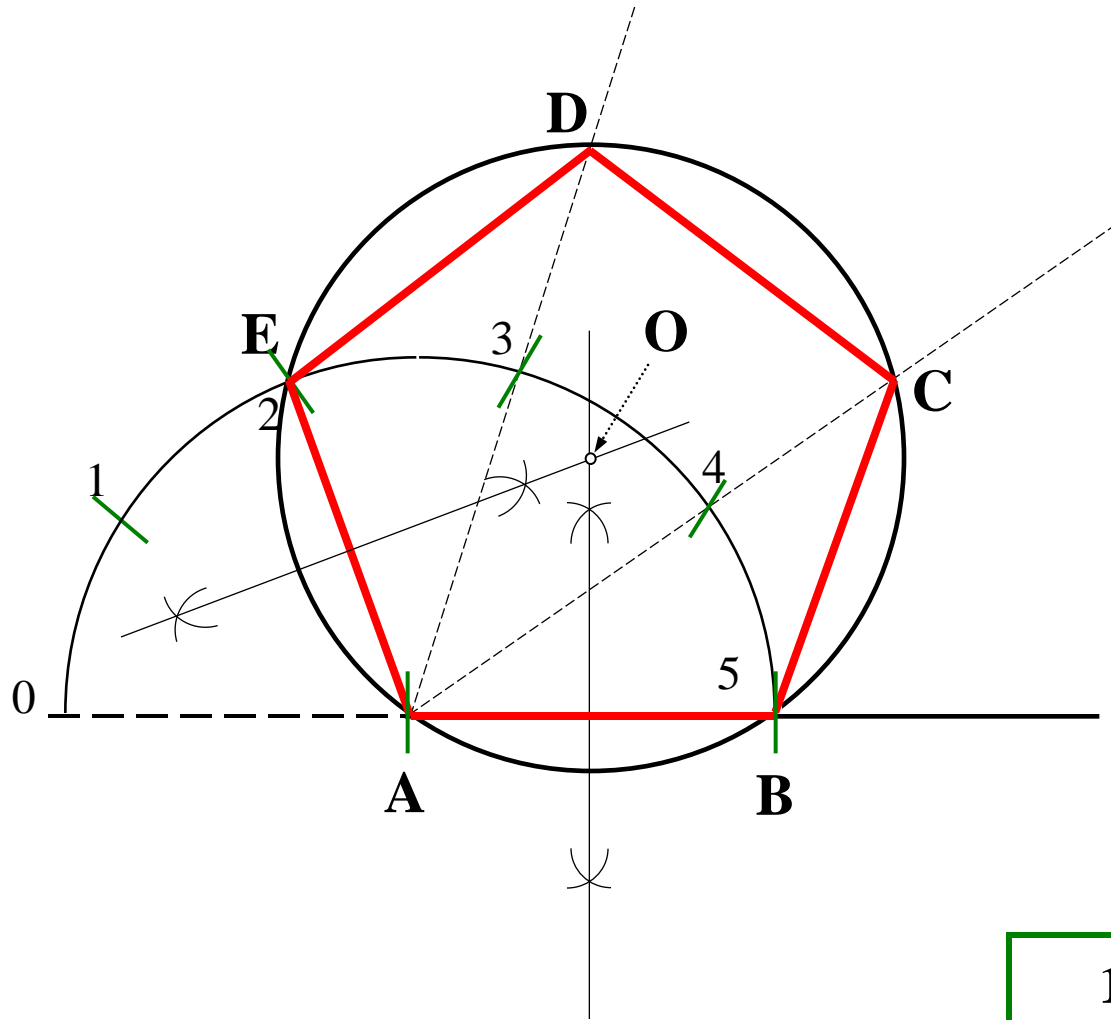
What is Engineering Drawing?

Engineering Drawing is the language of engineers. It is meant for communicating his/her ideas, thoughts and designs to others.

“A drawing drawn by an engineer, having Engineering knowledge, for the Engineering purposes is an Engineering Drawing.”

It is a starting point of all Engineering branches- Mechanical, Production, Civil, Electrical, Electronics, Communication, Computer Science, Chemical, Textile, Transportation, Metallurgical, Instrumentation, Automobile, Architectural, Agricultural, Aeronautical, Marine, Mining Engineering etc.

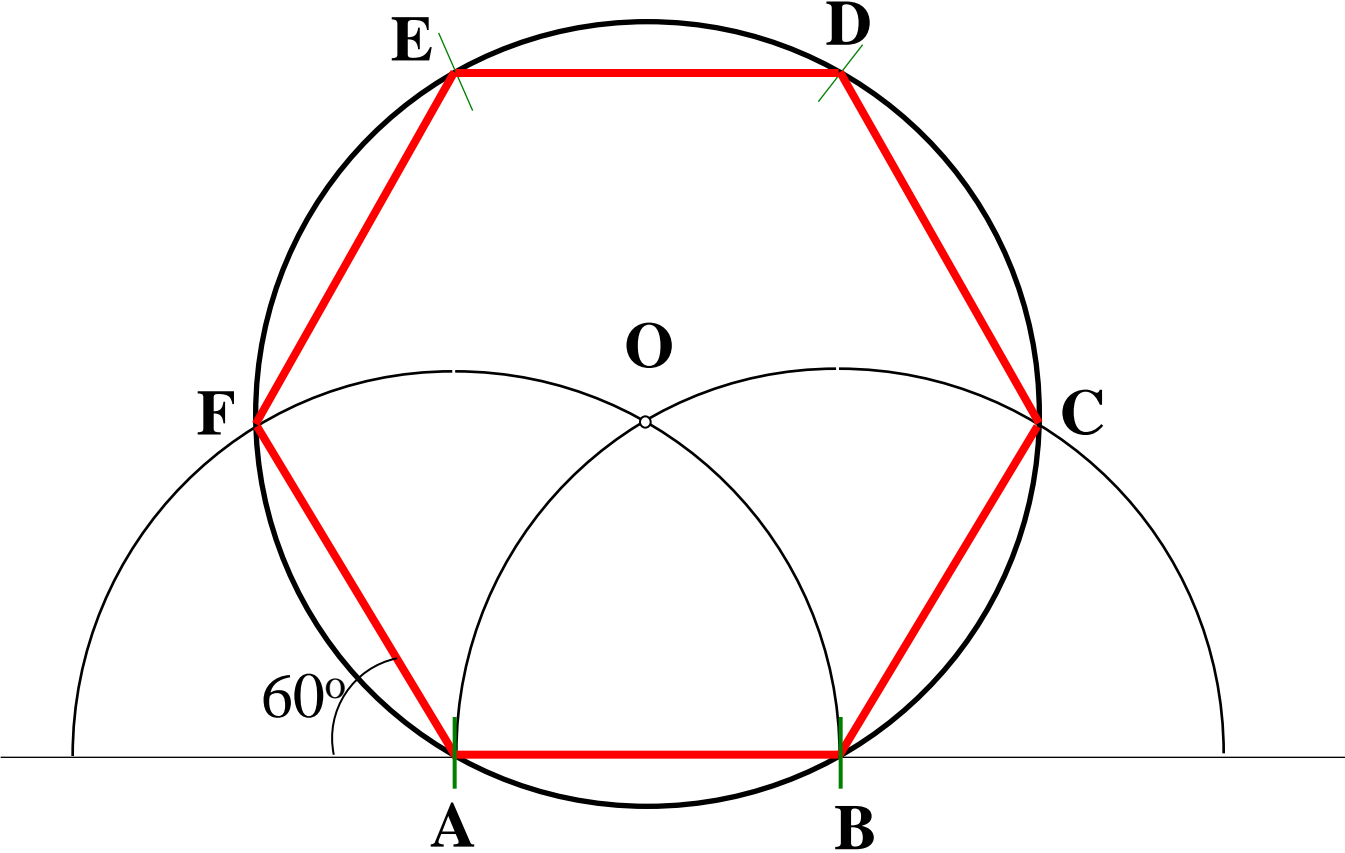
REGULAR PENTAGON



$$180^\circ / 5 = 36^\circ$$

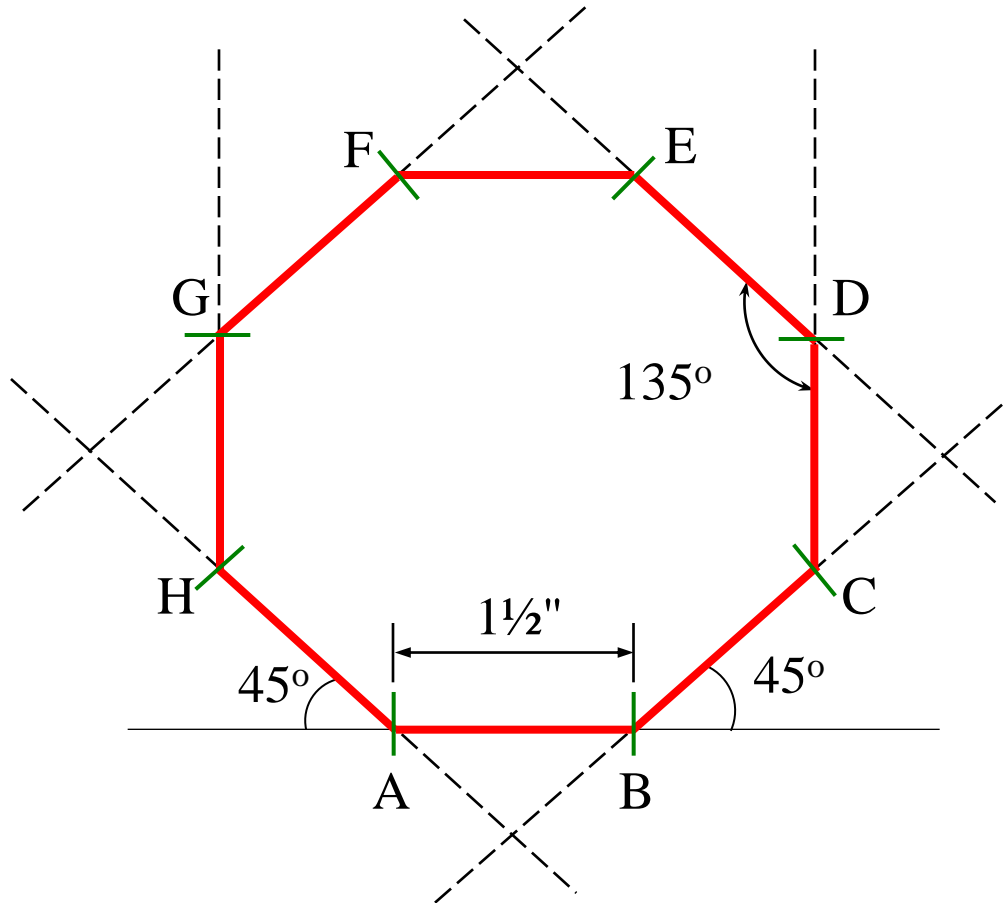
SCALE : AB = 1 "

REGULAR HEXAGON



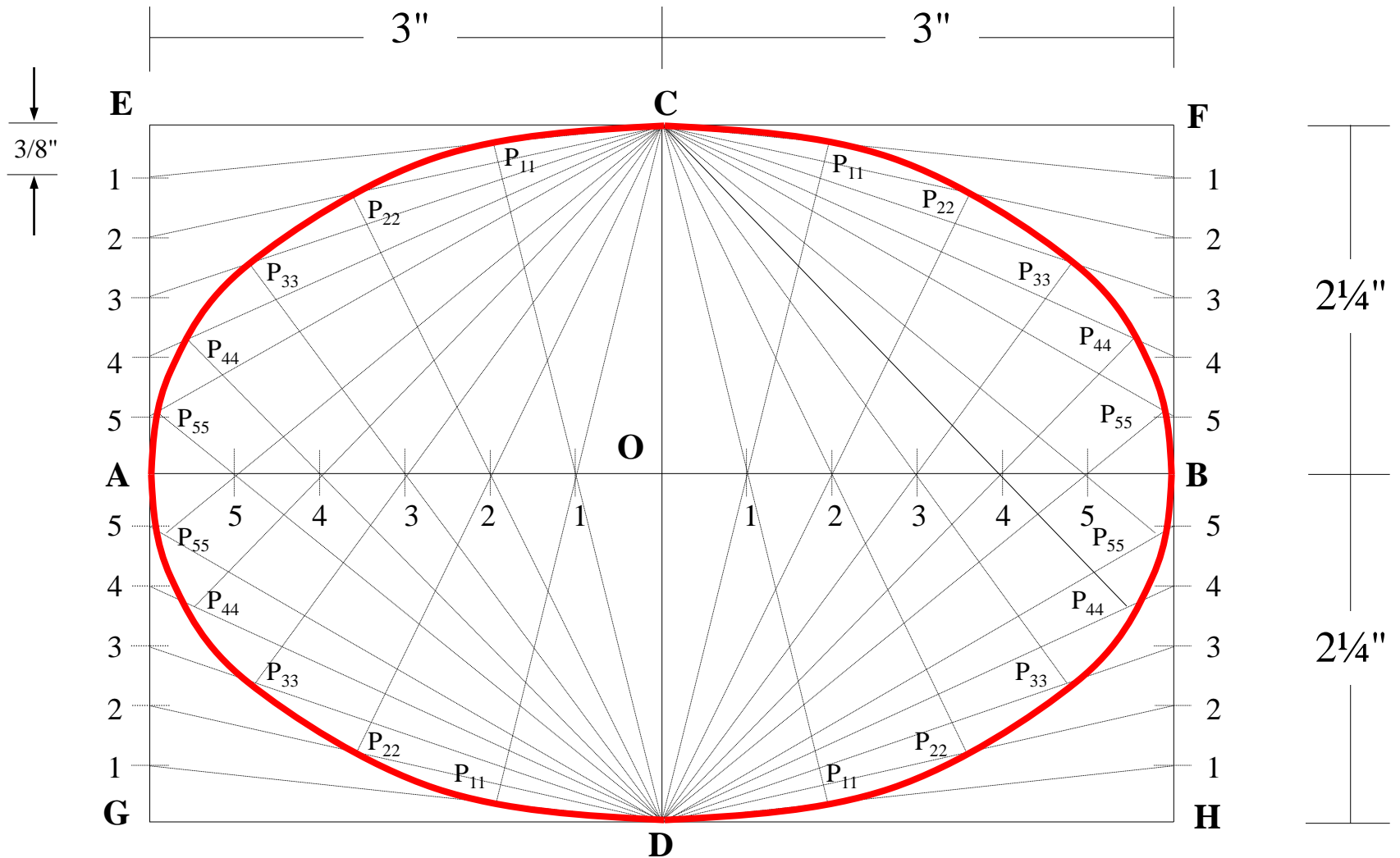
SCALE : AB = 2 "

REGULAR OCTAGON



SCALE : AB = 1.5 "

ELLIPSE (PARALLELOGRAM METHOD)

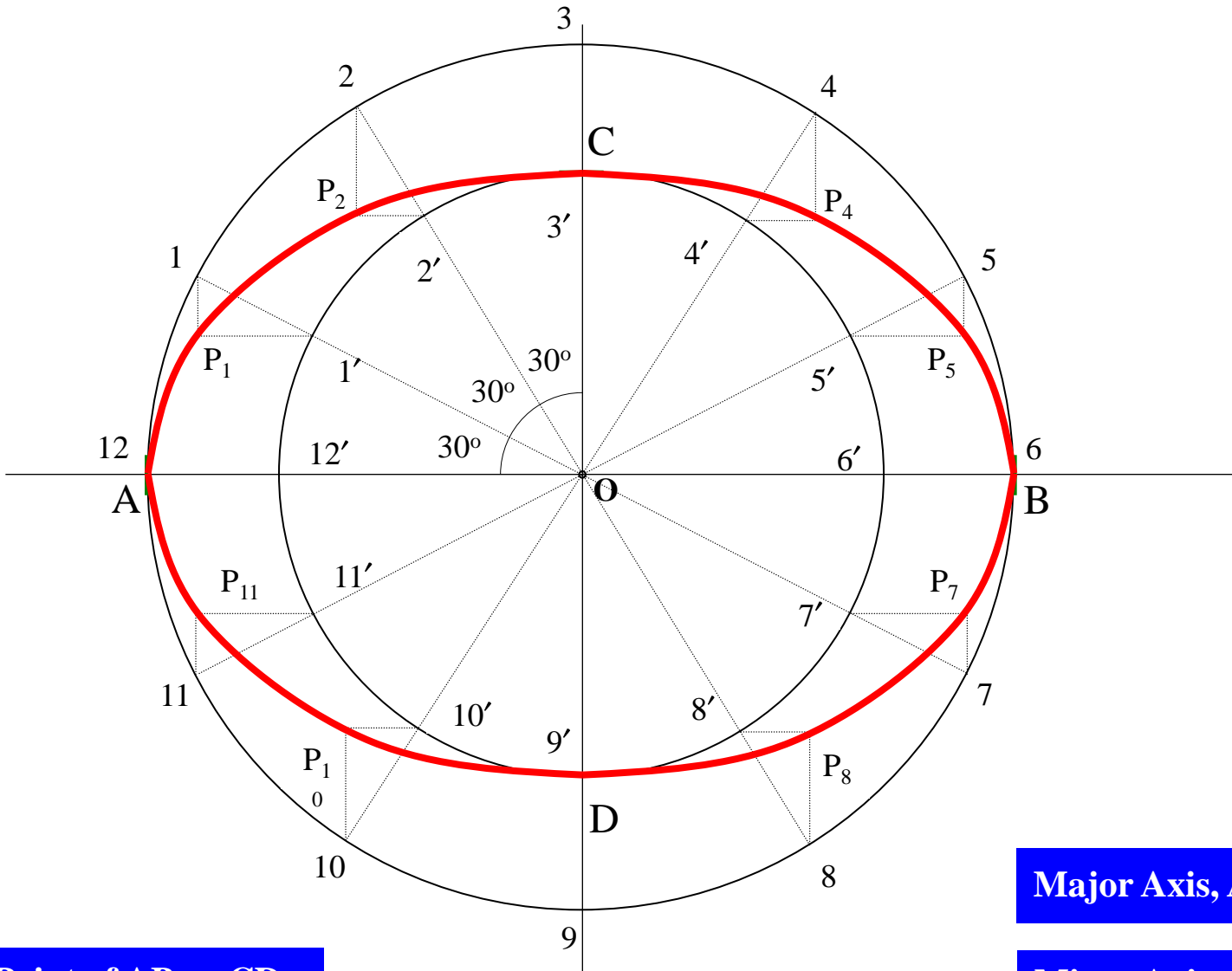


Major Axis, AB = 6 "

O = Mid Point of AB or CD

Minor Axis, CD = 4.5"

ELLIPSE (CONCENTRIC CIRCLES METHOD)

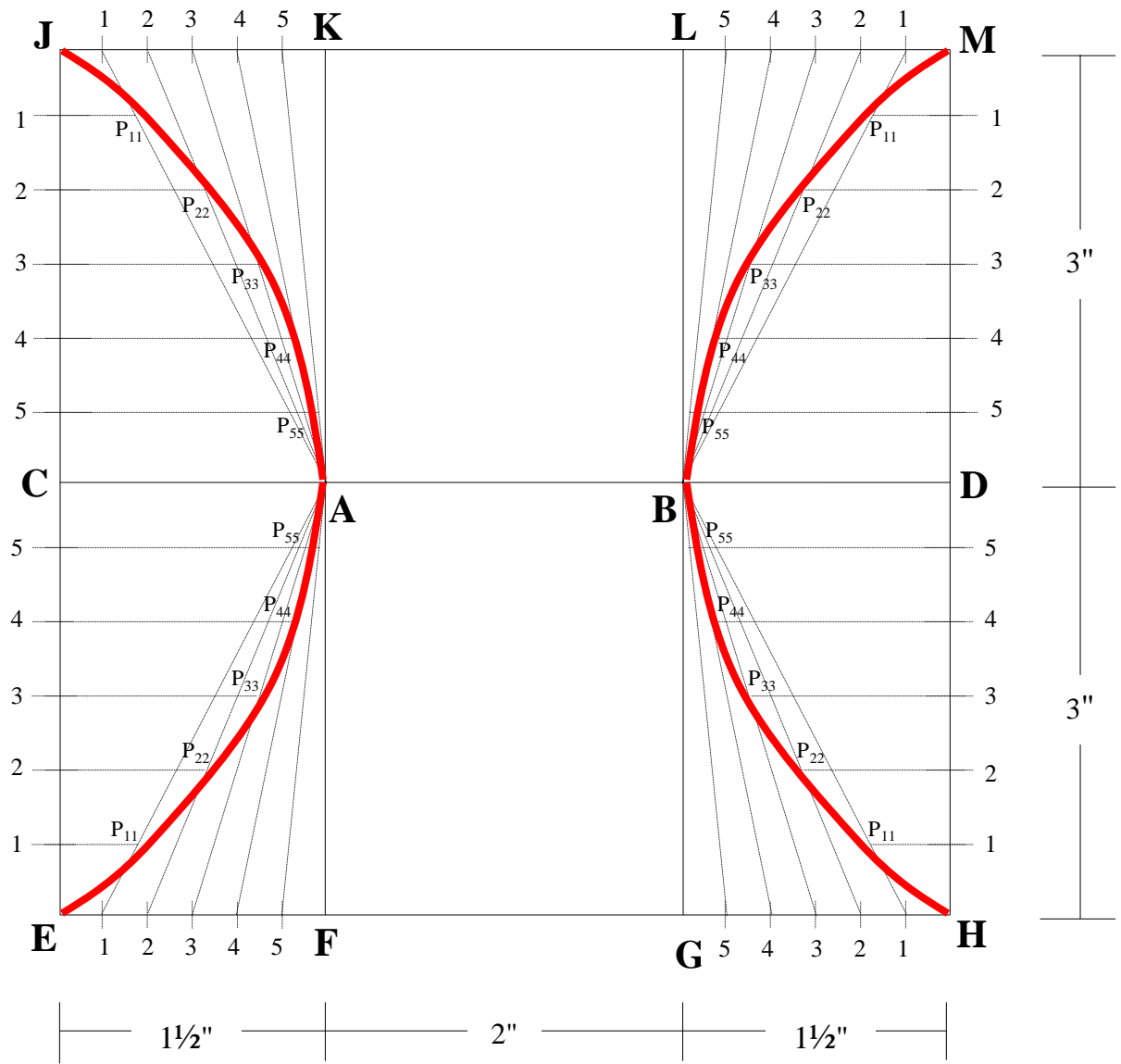


O = Mid Point of AB or CD

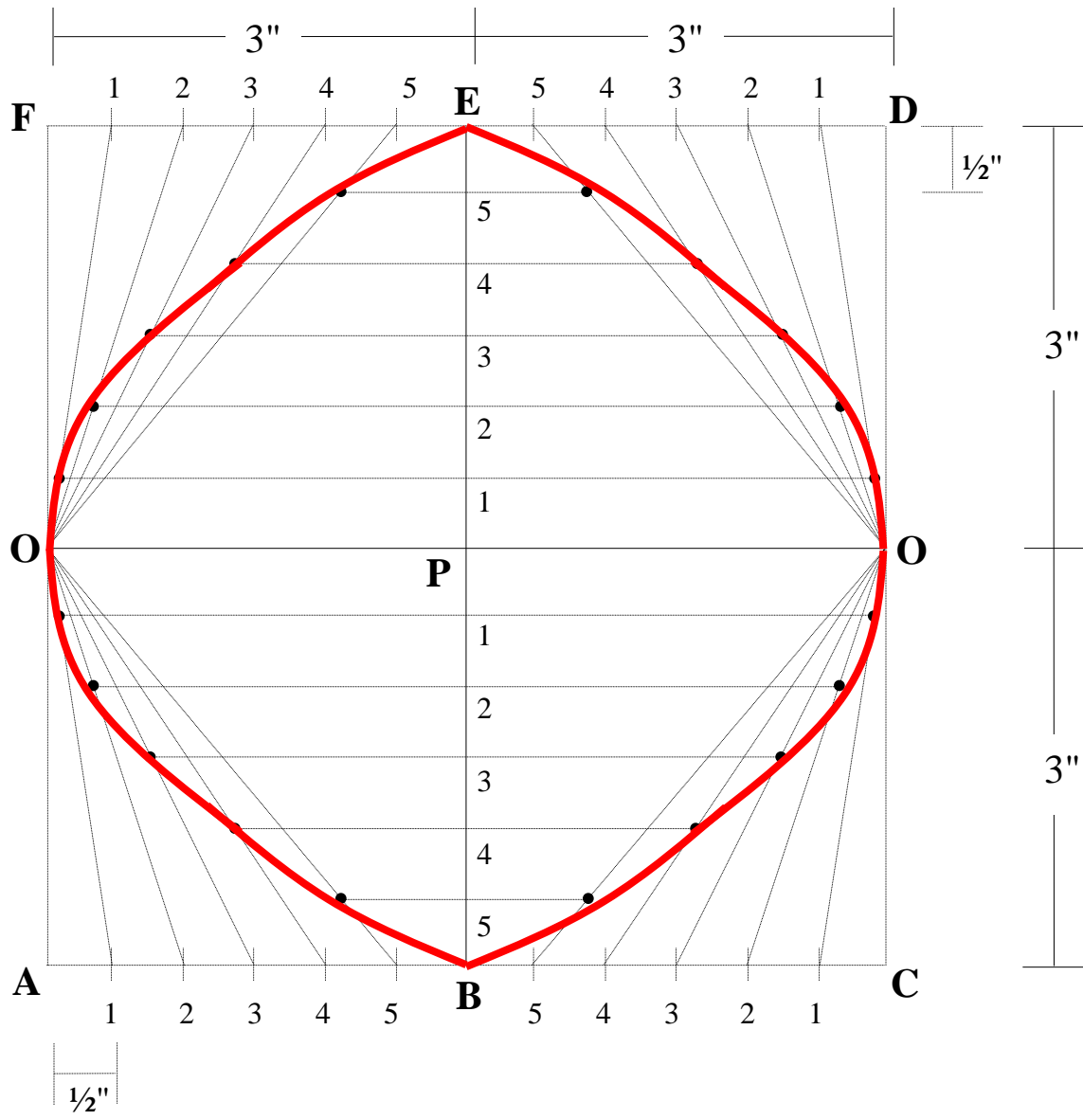
Major Axis, AB = 5 ''

Minor Axis, CD = 3 ''

HYPERBOLA



PARABOLA



OF = 1.5"
OB = 2.5"

Thank You

