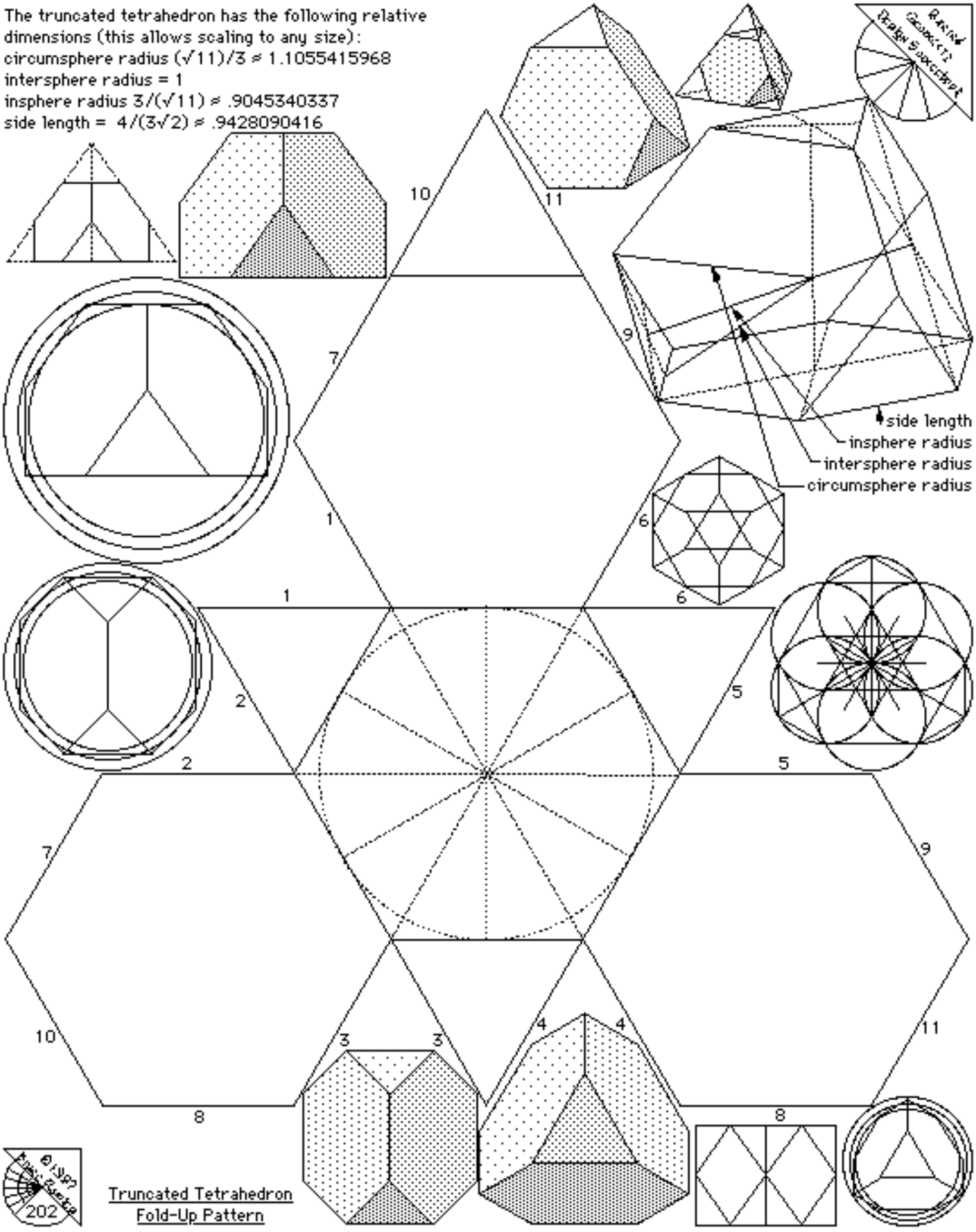
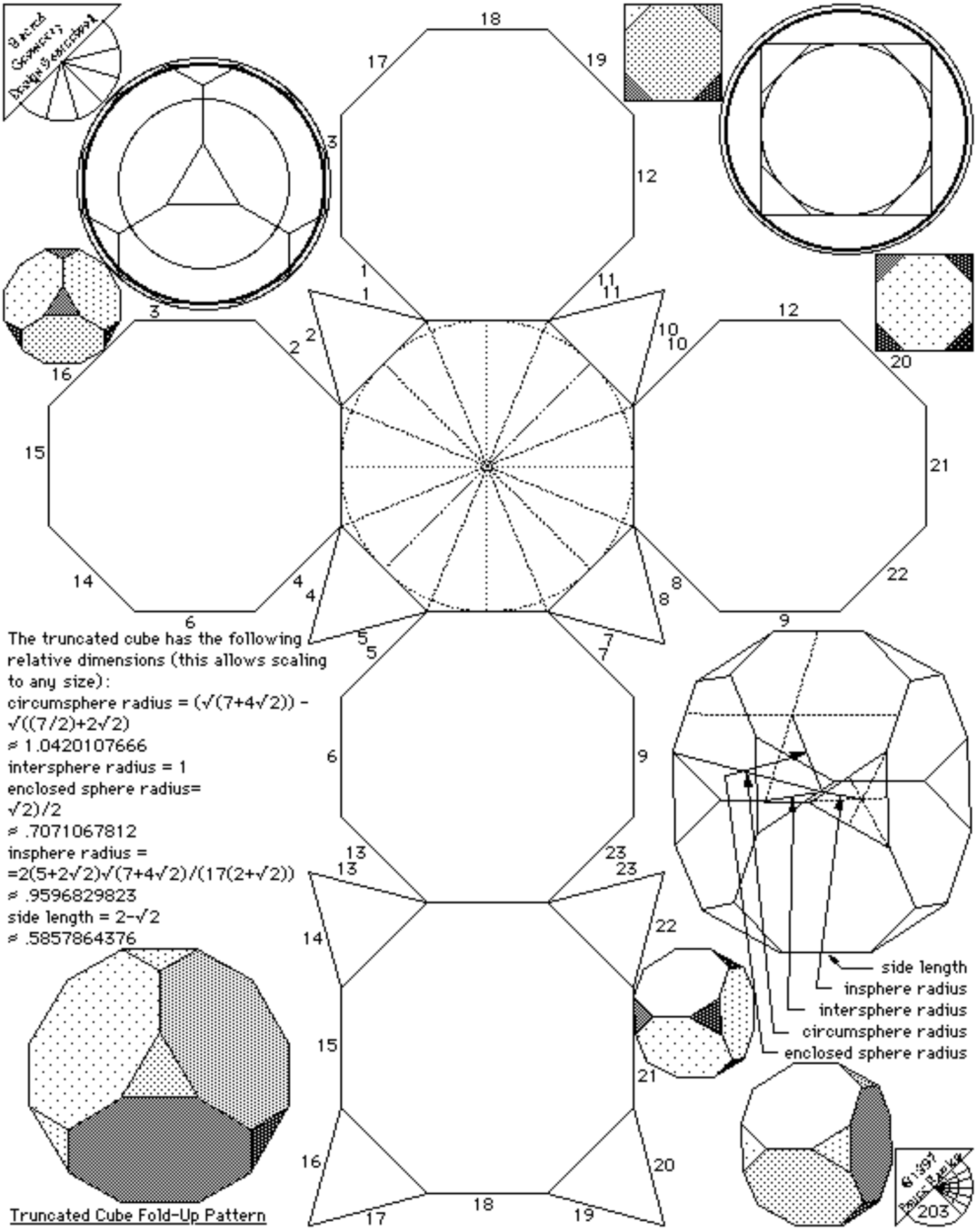
The truncated tetrahedron has the following relative dimensions (this allows scaling to any size):
circumsphere radius $(\sqrt{11})/3 \approx 1.1055415968$
intersphere radius = 1
insphere radius $3/(\sqrt{11}) \approx .9045340337$
side length = $4/(3\sqrt{2}) \approx .9428090416$



Truncated Tetrahedron
Fold-Up Pattern

from http://www.intent.com/sg/archimedeans.html



The truncated cube has the following relative dimensions (this allows scaling to any size):

circumsphere radius = $(\sqrt{(7+4\sqrt{2})} - \sqrt{((7/2)+2\sqrt{2})}$
≈ 1.0420107666

intersphere radius = 1

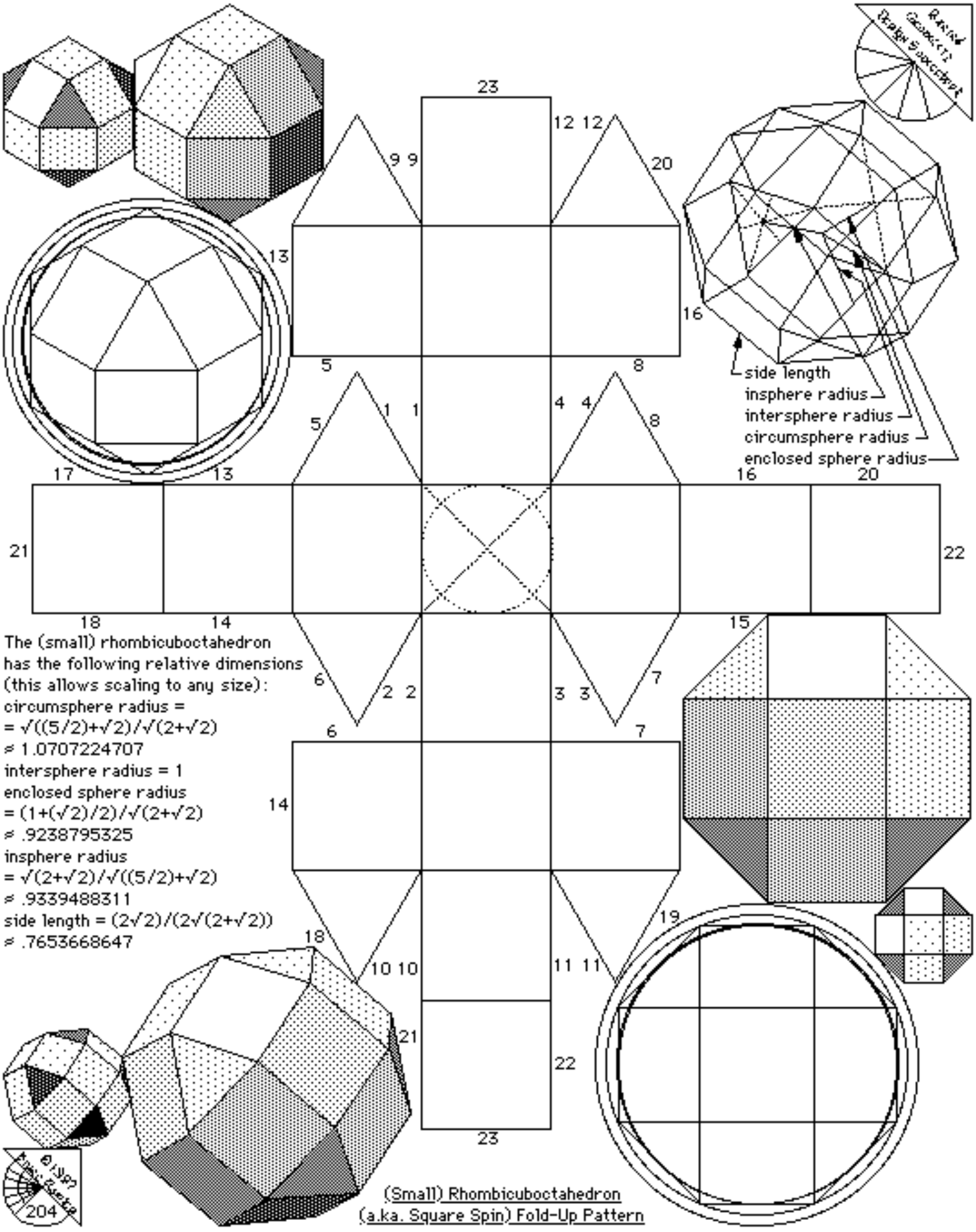
enclosed sphere radius= $\sqrt{2})/2$
≈ .7071067812

insphere radius =
$=2(5+2\sqrt{2})\sqrt{(7+4\sqrt{2})}/(17(2+\sqrt{2}))$
≈ .9596829823

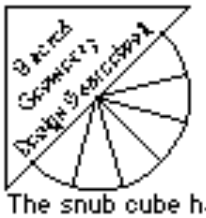
side length = $2-\sqrt{2}$
≈ .5857864376

Truncated Cube Fold-Up Pattern

from http://www.intent.com/sg/archimedeans.html

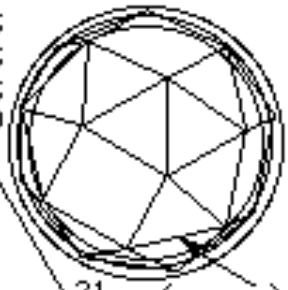


from http://www.intent.com/sg/archimedeans.html

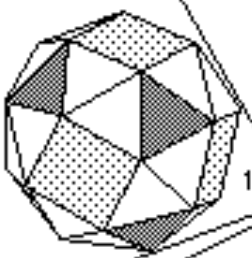


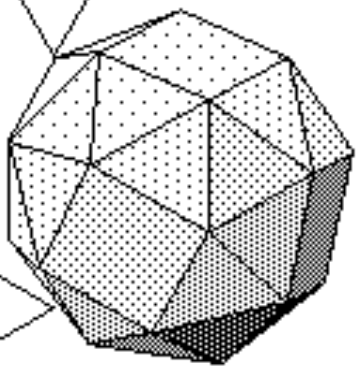
The snub cube has the following relative dimensions (this allows scaling to any size):
circumsphere radius = r/h
≈ 1.0773640261
intersphere radius = 1
insphere radius = R/h
≈ .9281913780
side length = 1/h
≈ .8017811292

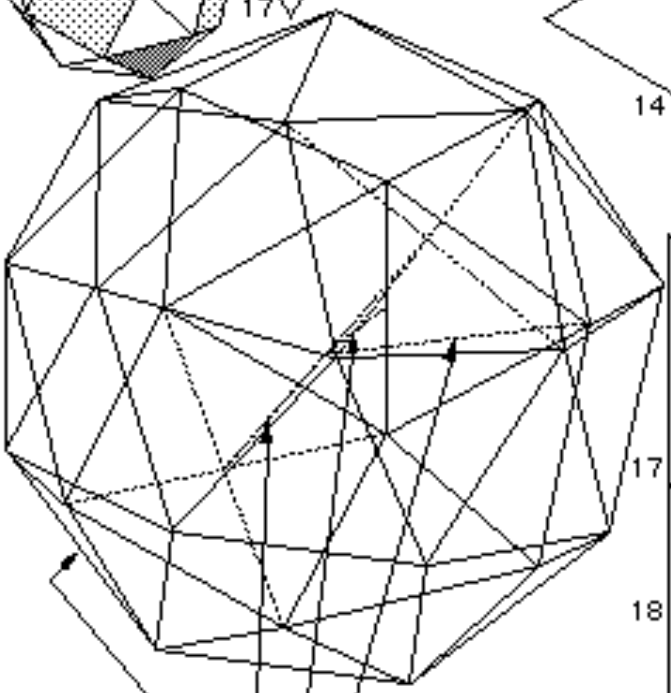
R = (1/2)√((x^2-8x+4)/(x^2-5x+4));
x = (19+3√33)^(1/3);
r = (R^2-(1/4))/R;
h = √(R^2-(1/4))



(approx.)

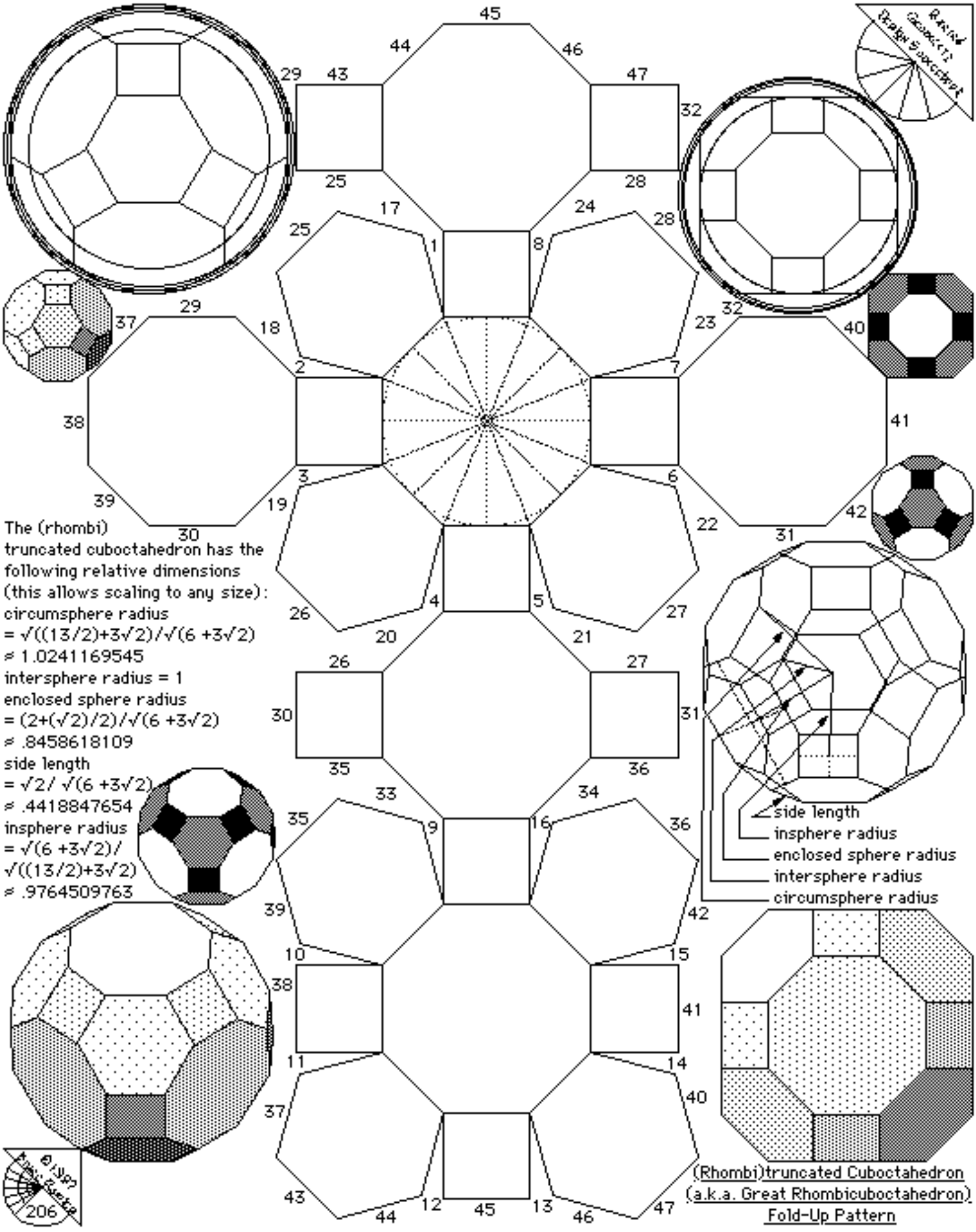




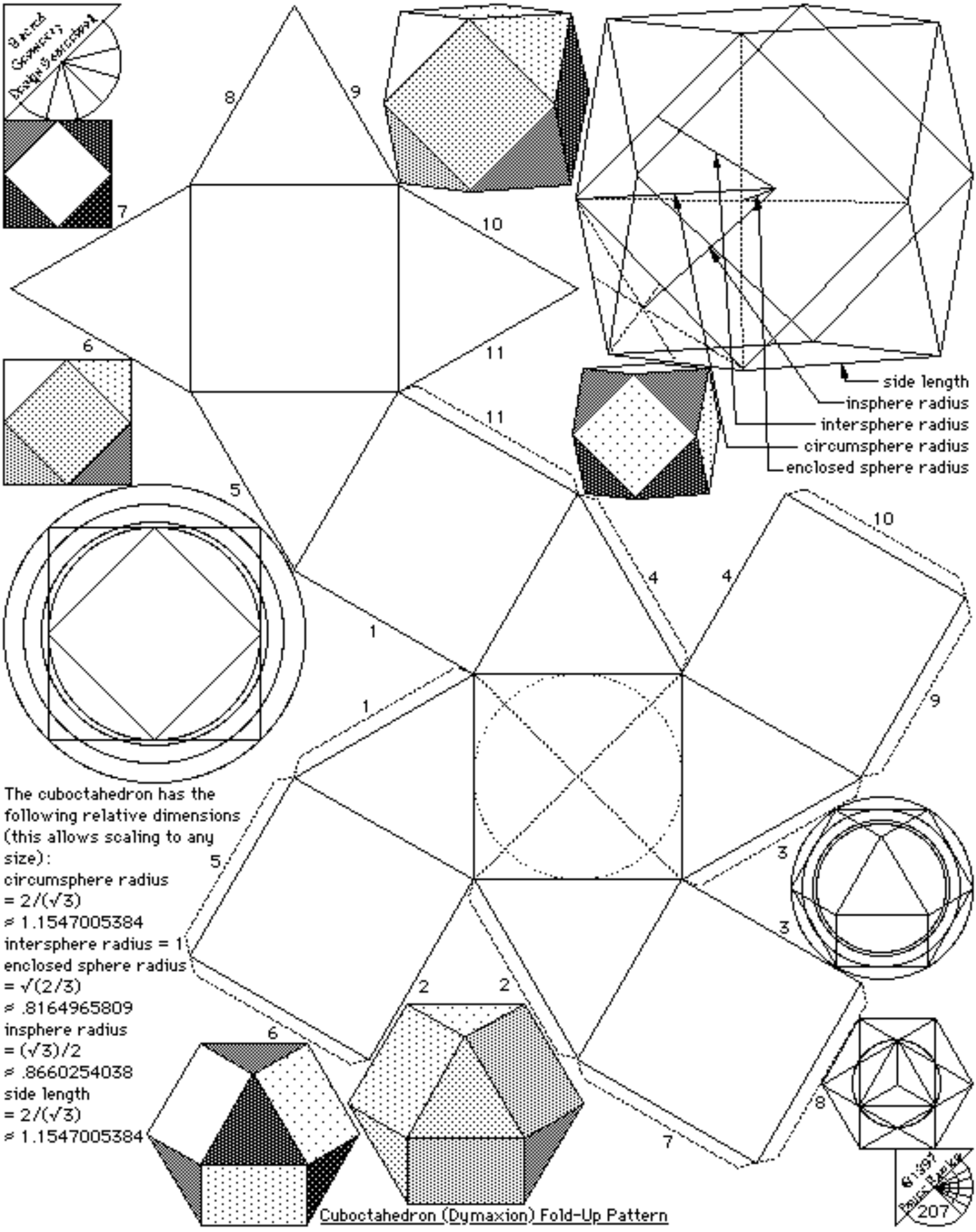


side length
insphere radius
intersphere radius
circumsphere radius

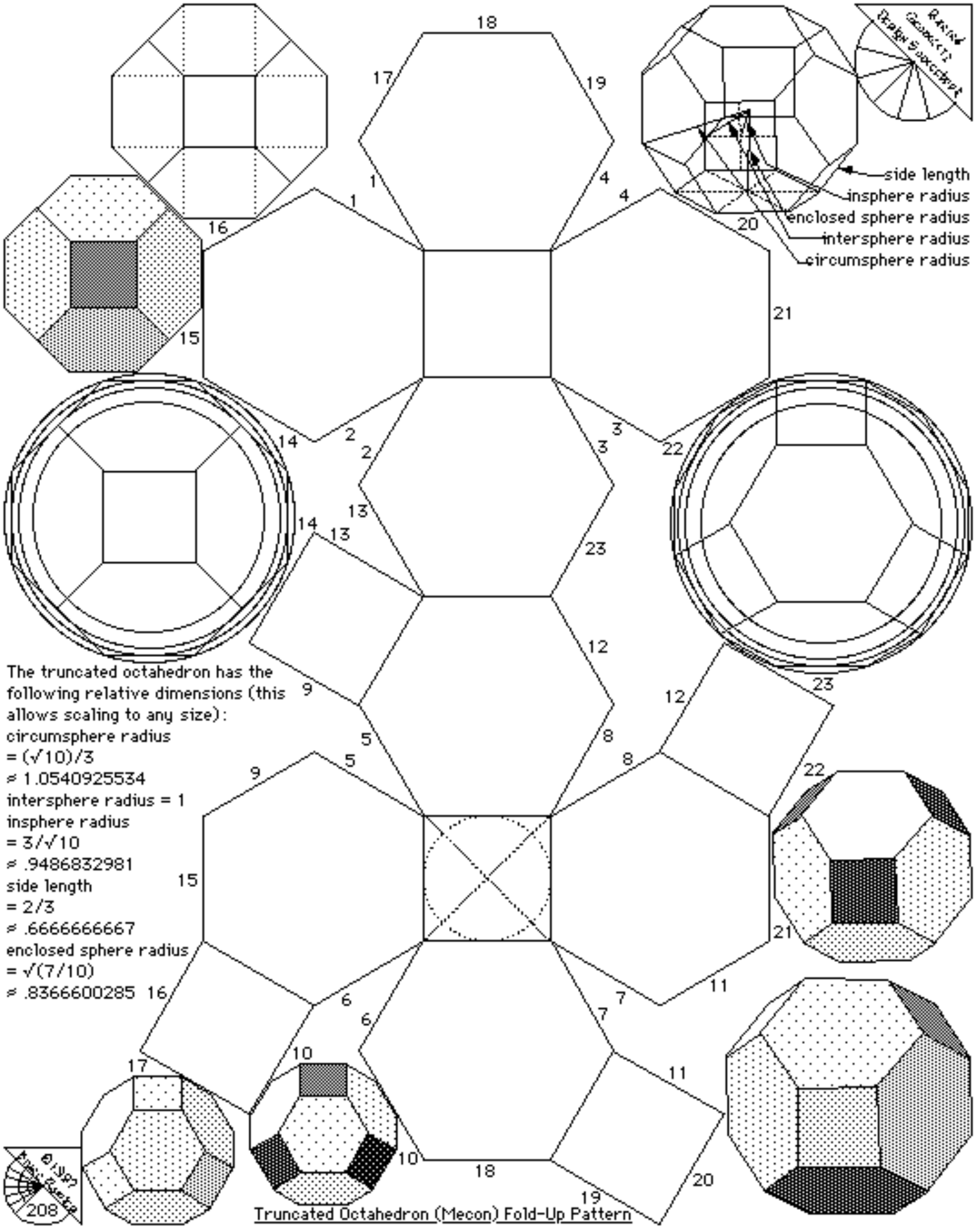
Snub Cube Fold-Up Pattern



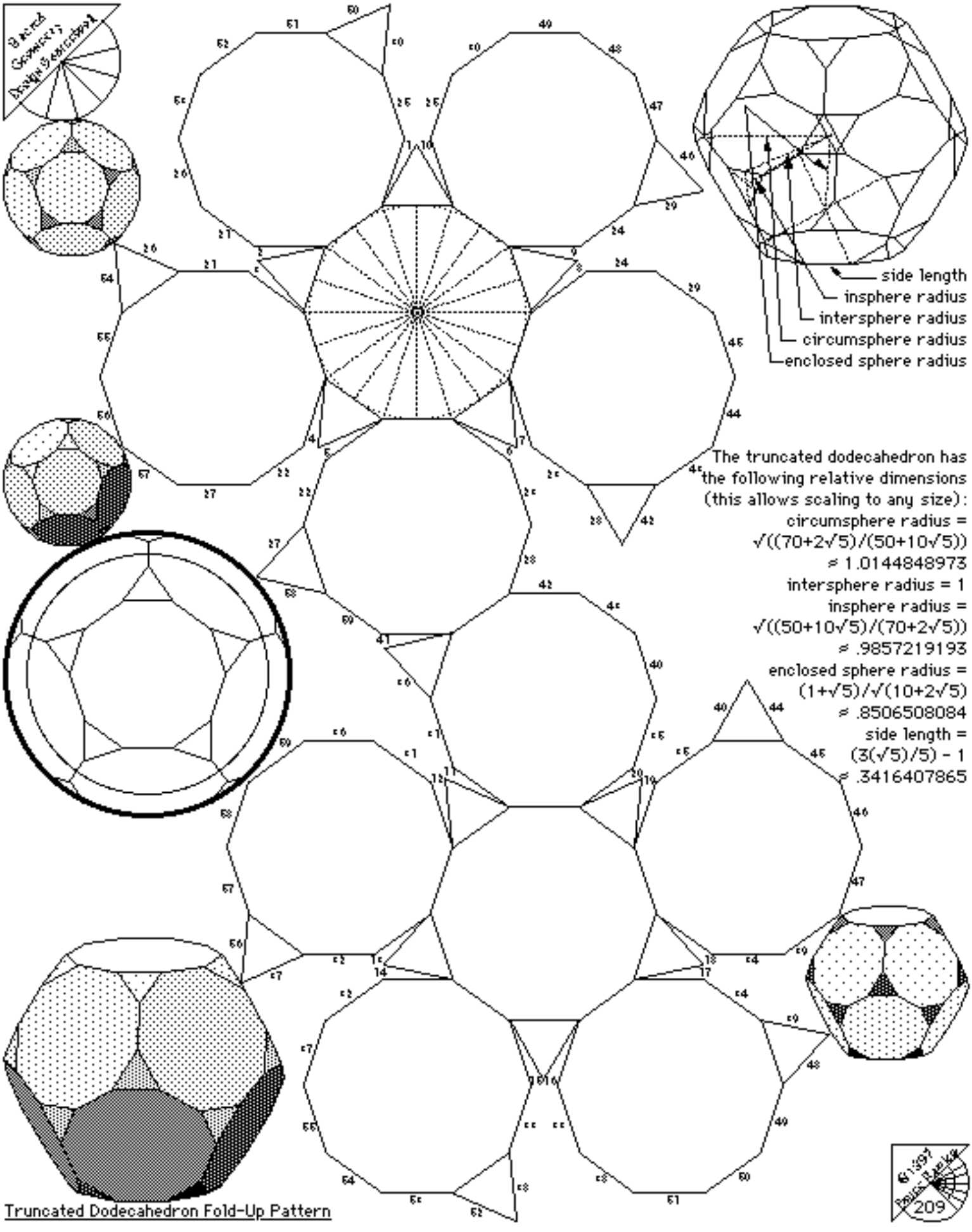
from http://www.intent.com/sg/archimedeans.html



from http://www.intent.com/sg/archimedeans.html



from http://www.intent.com/sg/archimedeans.html



The truncated dodecahedron has the following relative dimensions (this allows scaling to any size):

circumsphere radius = $\sqrt{((70+2\sqrt{5})/(50+10\sqrt{5}))}$ ≈ 1.0144848973

intersphere radius = 1

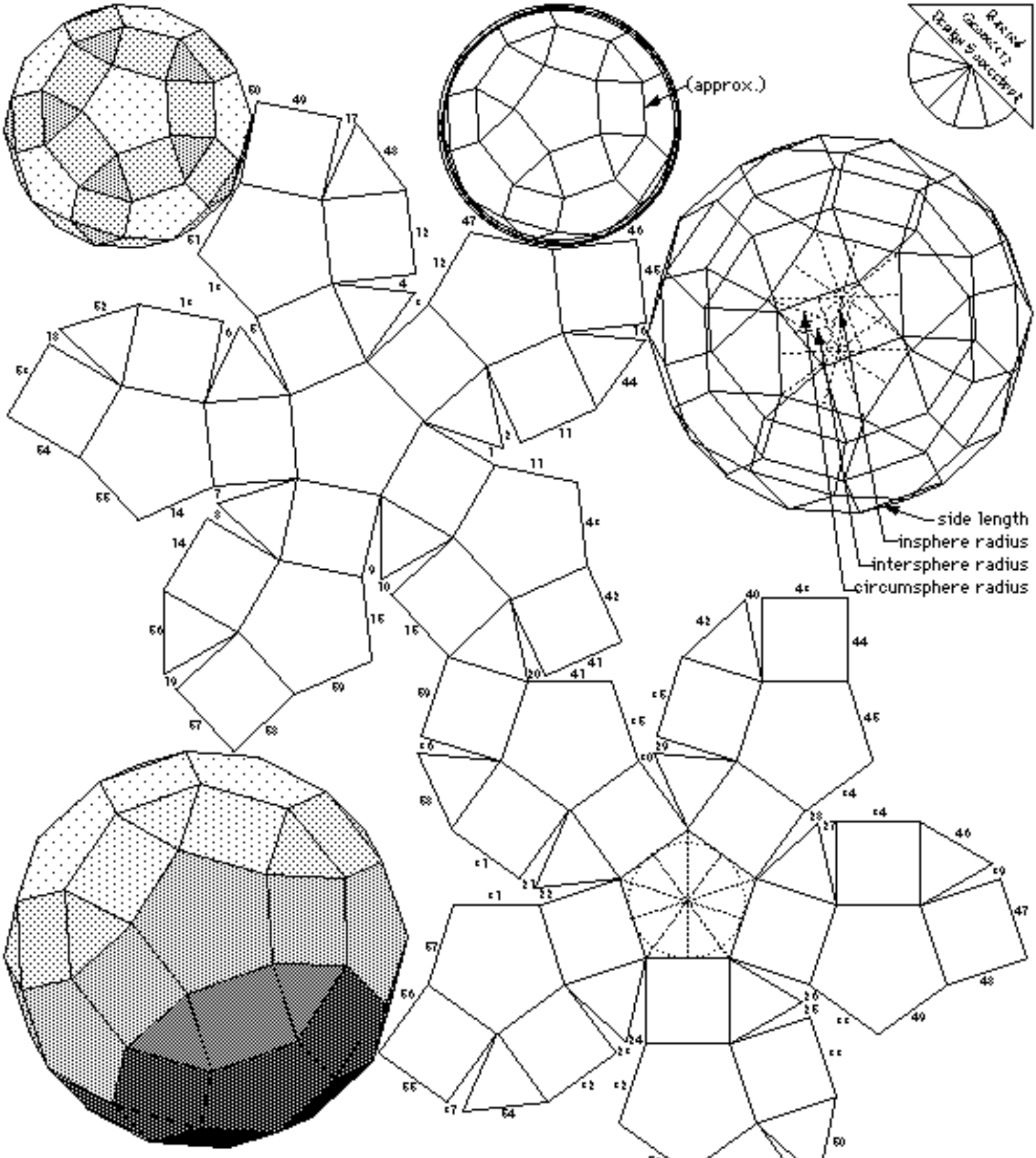
insphere radius = $\sqrt{((50+10\sqrt{5})/(70+2\sqrt{5}))}$ ≈ .9857219193

enclosed sphere radius = $(1+\sqrt{5})/\sqrt{(10+2\sqrt{5})}$ ≈ .8506508084

side length = $(3(\sqrt{5})/5) - 1$ ≈ .3416407865

Truncated Dodecahedron Fold-Up Pattern

from http://www.intent.com/sg/archimedeans.html



The (small) rhombicosidodecahedron has the following relative dimensions (this allows scaling to any size):

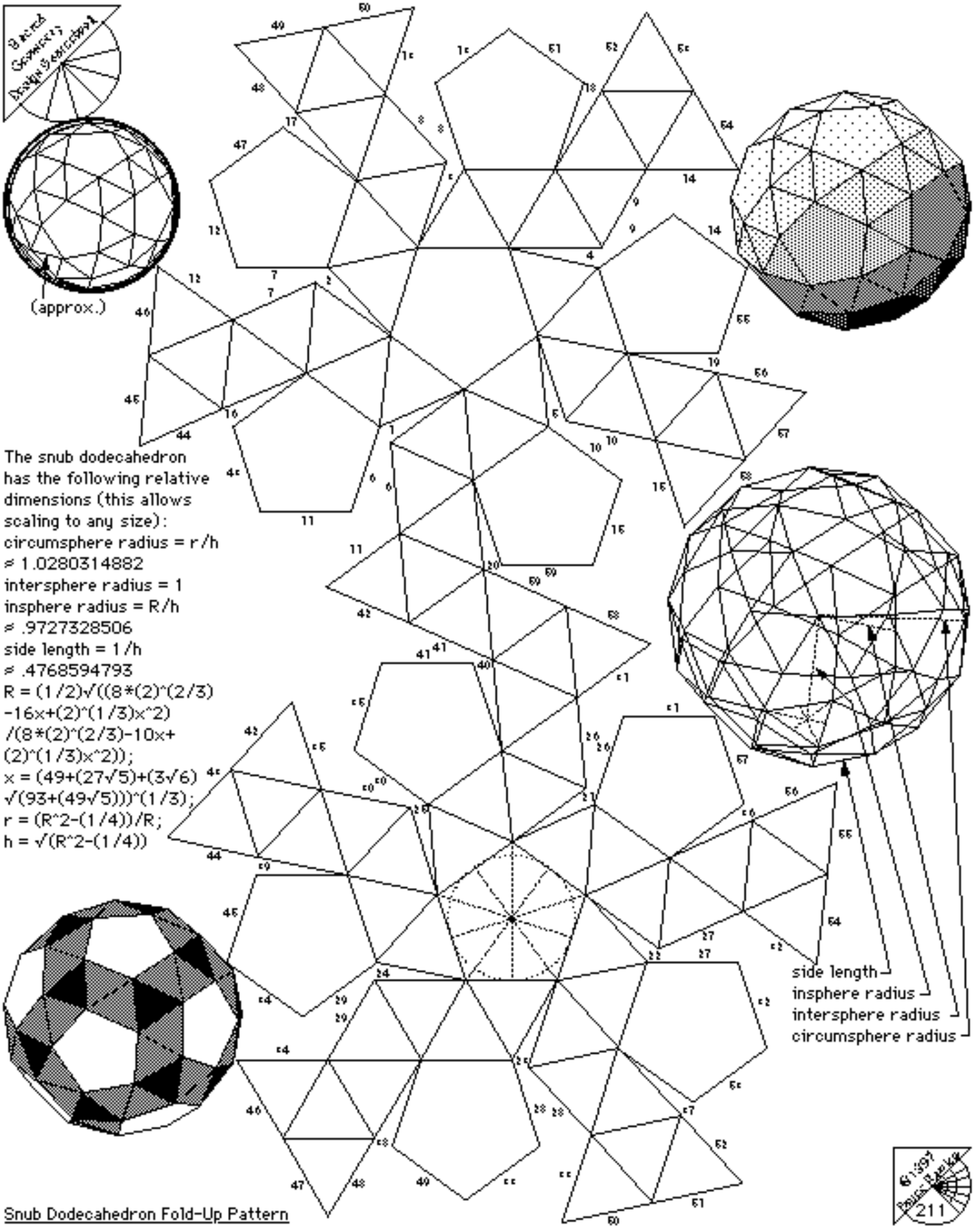
circumsphere radius = $\sqrt{((11+4\sqrt{5})/(10+4\sqrt{5}))} \approx 1.0260538020$

intersphere radius = 1

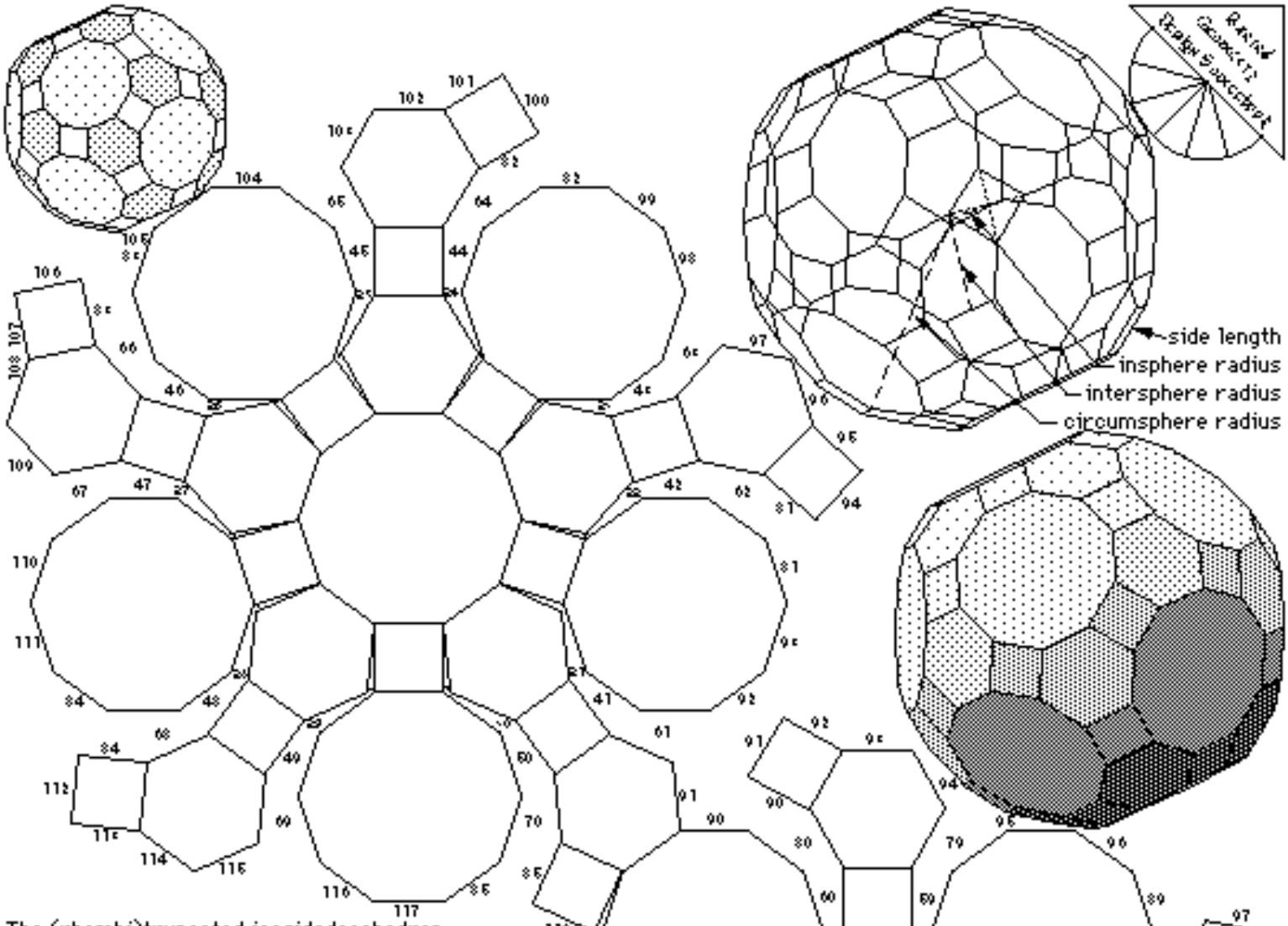
insphere radius = $\sqrt{((10+4\sqrt{5})/(11+4\sqrt{5}))} \approx .9746077624$

side length = $2/\sqrt{(10+4\sqrt{5})} \approx .4595058411$

(Small) Rhombicosidodecahedron
Fold-Up Pattern



Snub Dodecahedron Fold-Up Pattern



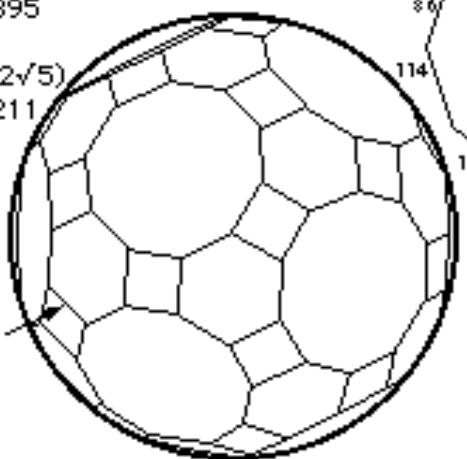
The (rhombi)truncated icosidodecahedron has the following relative dimensions (this allows scaling to any size):

circumsphere radius
= √((31+12√5)/(30+12√5))
≈ 1.0087593708

intersphere radius = 1

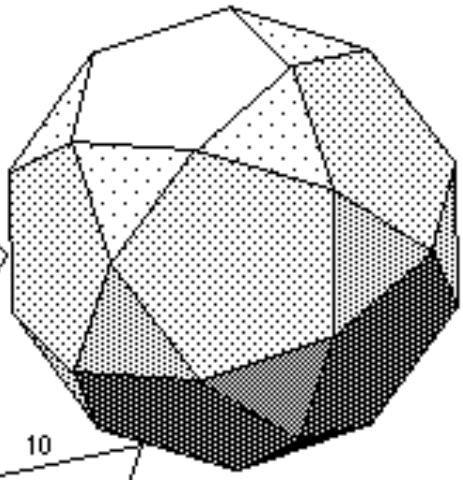
insphere radius
= 2(105+6√5)√(31+12√5)
/(241√(30+12√5))
≈ .9913166895

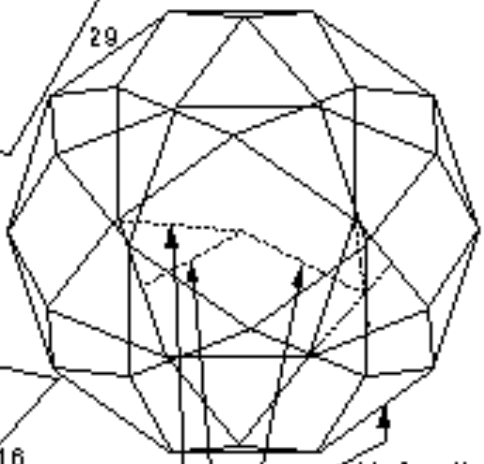
side length
= 2/√(30+12√5)
≈ .2652958211

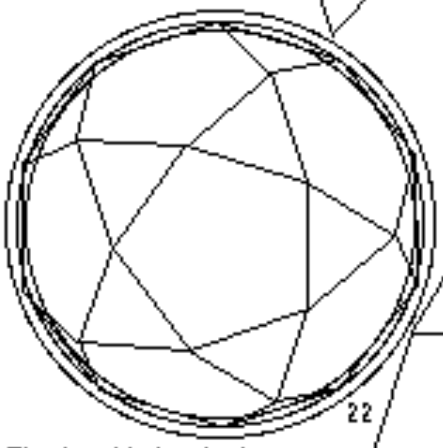


(Rhombi)truncated Icosidodecahedron (a.k.a. Great Rhombicosidodecahedron) Fold-Up Pattern

from http://www.intent.com/sg/archimedeans.html

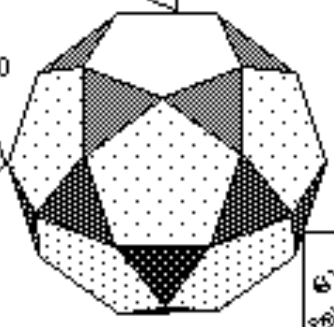




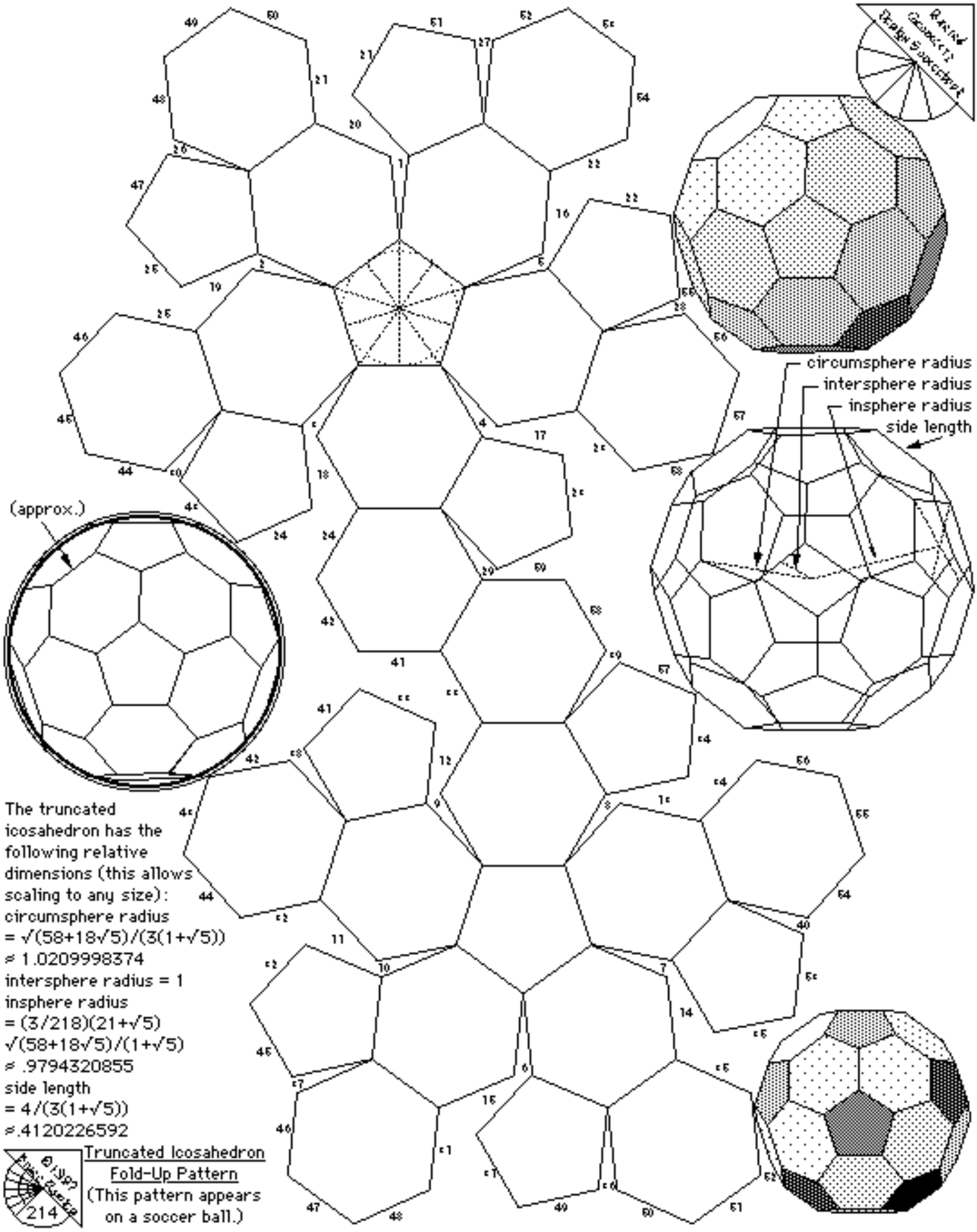


side length
insphere radius
intersphere radius
circumsphere radius

The icosidodecahedron has the following relative dimensions (this allows scaling to any size):
circumsphere radius
= (1+√5)/(√(5+2√5))
≈ 1.0514622242
intersphere radius = 1
insphere radius
= (5+3√5)/(4√(5+2√5))
≈ .9510565163
side length
= 2/(√(5+2√5))
≈ .6498393925
The circumsphere radius to side length ratio is the golden ratio = Ø = (1+√5)/2
≈ 1.6180339888



Icosidodecahedron Fold-Up Pattern



The truncated icosahedron has the following relative dimensions (this allows scaling to any size):
circumsphere radius
= √(58+18√5)/(3(1+√5))
≈ 1.0209998374
intersphere radius = 1
insphere radius
= (3/218)(21+√5)
√(58+18√5)/(1+√5)
≈ .9794320855
side length
= 4/(3(1+√5))
≈.4120226592

Truncated Icosahedron
Fold-Up Pattern
(This pattern appears on a soccer ball.)

from http://www.intent.com/sg/archimedeans.html