**Area of a square or rectangle**

Length x width = area > example of 1,000 gallon septic tank

7’-6” x 4’-11” > convert to inches > 7’-6” = 90” > 4’-11” = 59”

90” x 59” = 5,310 square inches

**Volume of square or rectangle tank**

Area x depth = volume > example of 1,000 gallon septic tank

5,310” x 44” (bottom of tank to bottom of outlet) = 233,640 cubic inches

**Cubic inches per gallon = 231**

**Volume of square or rectangle tank in gallons**

Cubic inches / cubic inches per gallon

233,640 cu in / 231 = 1,011 gallons

**Area of a circle**

π x r2 > Pi x radius squared > example of 2” pipe

3.14 x 1 x 1 = 3.14 square inches

**Volume of 2” pipe**

Area in inches x length in inches > example of 100’ of 2” pipe

3.14 sq in x 1,200” (100’ x 12” per foot) = 3,768 cubic inches

**Volume of 2” pipe in gallons per 100’**

Cubic inches / cubic inches per gallon

3,768 cu in / 231 = 16.3 cu in

rise

**Numbers to remember**

slope

run

231 > cubic inches per gallon

7.48 > gallons per cubic foot

2.31 > feet of head in 1 psi

0.433 > psi in 1 foot of head

watts

*816 – 966 – 8885*

***www.residentialsewage.com***

volts

amps