

## **WATER, SEWER, AND OTHER INFRASTRUCTURE NOTES**

### **WASTE WATER TREATMENT**

It is our intention to provide a sewer collection system and effluent treatment in the form of "package plants" which allow us to expand the system as well as separate diverse locations within the project. The treatment facilities are located underground with multiple connections and backup systems that allow various parts of the system to be taken offline for maintenance without compromising the system.

Waste water is graded and depending on what the use is after treatment drives the level of purification (oxygenation followed by either chlorine or ultraviolet light) all done in underground tanks that nobody sees (they see a park with trees and some 24" to 36" round circles sticking up out of the grass), monitored minute by minute with lots of backup systems. With the right oxygenation and temperature, you can grow trout in the graded effluent or put it back in Oak Creek....

### **WATER SUPPLY:**

The aquifer under the property is a known commodity. It is the Verde Valley Aquifer and in 1983 was studied by the ADWR and US Geological Survey people in great detail when Bruce Babbitt was Governor and he was setting up the Active Management Area water programs. Water levels in the wells in the area usually range around 40 to 140 feet depth to water. The property sits in type "Tv" (Tertiary Verde Formation) which offers good well prospects with water volume ranging up to 2,000 gallons per minute. The various ADWR index wells (one in particular - a 16 inch well on the property north of 89a and used for cattle watering) shows a drop in depth to water that corresponds with the drought in the area. The Verde Valley aquifer is not in any AMA or INA planning stages now (as are areas west and north of the Verde Valley Aquifer). The property is bounded by two (2) areas (North and South) that have already received Assured and Adequate Water 100 Year Supply designations by the ADWR. Again, the water wells, distribution and purification systems will be built and enlarged as the Village grows.

### **FINANCING THE INFRASTRUCTURE.**

With the ability to issue Community Facility Bonds, WE ARE THE MUNICIPALITY and can do anything and everything ANY city can do at the SAME cost per unit. Build sewers, build roads, drill wells, build sewer effluent treatment plants, water storage facilities, put in all utilities, build hospitals and furnish them, build law enforcement buildings and furnish them, build parks and recreational facilities, build government buildings, etc. About the only things we can't build are massage parlors and horse racing tracks with betting windows. We pay for it in the form of HOA and COA payments and we have the ability to tax the area within the District's boundaries, as well as tax the commercial winery businesses via bottle tax, and even sales tax.....