

RAINWATER "HARVESTING"

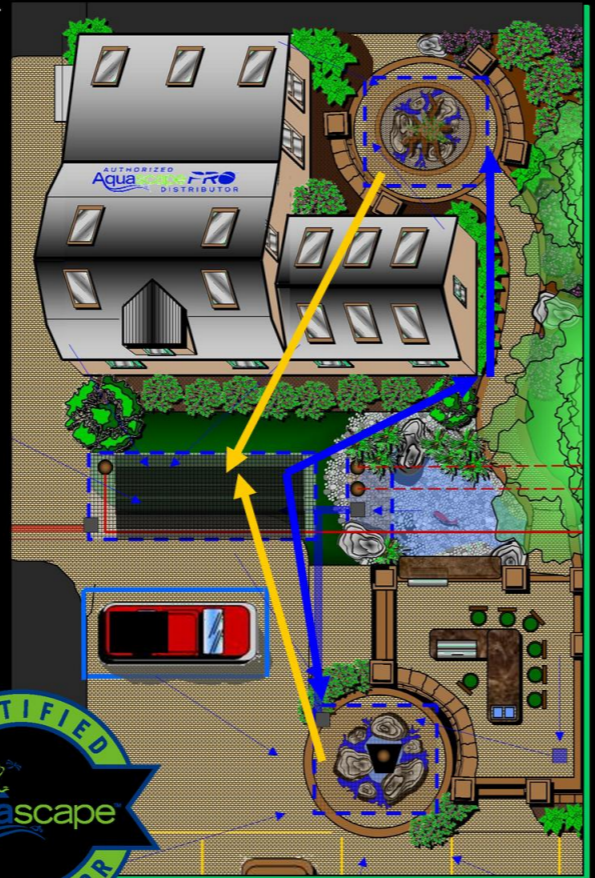
This rendering shows just about all aspects of CAPTURING, STORING, FILTERING, and REUSING rainwater at an advanced level. What you see here is the underground containment area for more than half of the non-permeable surfaces (roofs & asphalt), as well as the permeable UNILOCK paver systems installed on the property. The entire system is designed to work by utilizing both of the aquatic plant fountains as well as the entire constructed wetland filters in the pond system, to constantly accept into, and filter out of on a permanent basis. Captured rainwater is used to irrigate entire property as well as top off the minimum amounts of water used to run the pond, and fountains. Each fountain basin is capable of holding half the volume of the main basin, this allows for excessive overflow storage from the main Basin in each fountain. The height and level of each property determines where the containment basins should be, and in this case they are all perfectly level.

As mentioned the aquatic plant fountain basins run with a minimal amount of water. Each basin is plumbed with an AUTOMATIC FILL LINE (RED) from the main basin to sustain that water level. These autofills are needed to keep each ecosystem alive in extreme drought emergencies, but rarely ever used.

During an extremely rainy season water will fill each basin with what drains into it in that area. The main basin here accepts 75 to 80 % of the falling rain water in it's area and fills at a greater rate of speed. Once the main basin is full, OVERFLOW (BLUE) occurs via level corrugated pipes to both fountain basins as backup storage for main basin.

Each plant basin also has a pump activated by the need for water in the main basin. With an autofill for the pond and irrigation running every day water is used in the main basin faster than evaporation only rates in

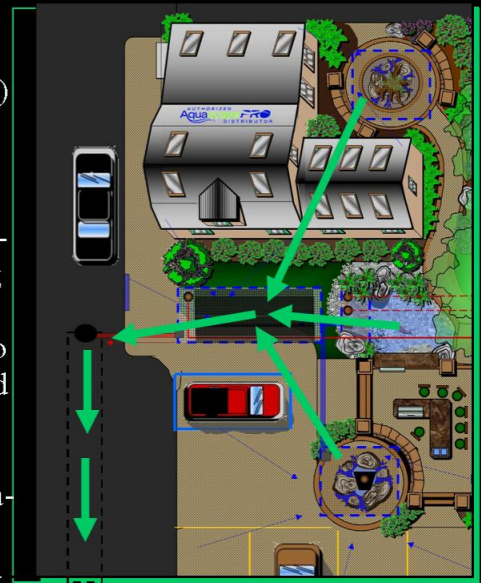
the aquatic plant basins. Electronic float valves activate pumps in aquatic plant fountains to fill main basin (YELLOW) to a minimal operating level to keep up with daily needs. Garden hoses can also be plumbed for washing down sidewalks, washing vehicles, etc.



When all three basins are full to capacity they overflow (GREEN) no pun intended but true, into city sewers free of toxins and fertilizers which cause major problems when they get to our streams and rivers. If calculated correctly this should occur once or twice every ten years or so, and only in freak rainstorm events. Also this system in numbers greatly reduces the amount of excess water forged into streams already overflowing their banks during these storms.

Just having the ability to reduce the amount of city water needed to irrigate the suburbs in the United States alone is worth taking a second and third look at, at last glance 76% of water used is for irrigation purposes, granted farms are thrown in the mix too. But still !!!

All in all, you save money in the long run, your helping mother nature, you feel like your making a difference by doing your part, throw in the fact that you can have a beautiful water feature in tune with nature and the environment makes it have a value beyond your time.



Snorkel



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