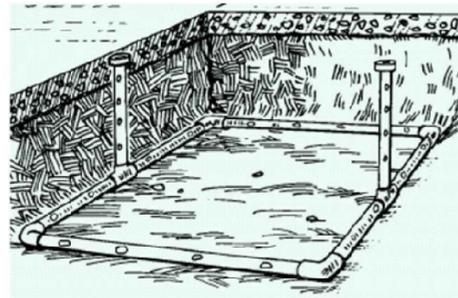


(figure 4 - C)



(figure 5)

**6 - Concepts for water management:**

**The amount of available water for use in the planet is finite, as such the availability of this for individual is inversely proportional to the increase of the population. Some studies indicate that since 1980 the amount of used water tripled, in case that the consumption if keeps constant, foresees that in 2025 two in each three inhabitants of the planet they come to suffer from water lack.**

It also has a series of similar systems, with plants that only need reduced substratum, that analyzing aspects economic and techniques of maintenance could be alternative to this system and to provide to the same qualities and properties.

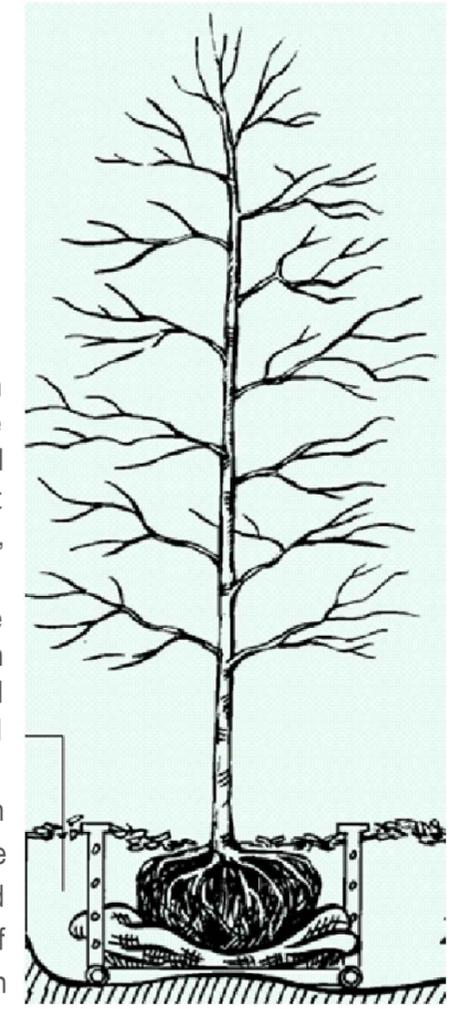
--- In what it respects the trees, implanted in seedbeds, or notch's of reduced size, limited to the available area in the exterior patios of the building, to make face to the reduced volume of implantation land, use a system of the aeration that can be constructed of the plumbing of the PVC for the use in sidewalks, system that to allow an access to reefs deepest of the water (derived from irrigation or pluvial) (figure 5 and 5 - A). Later this same water will serve as alimentary resource, of the alive walls, as described the previous one.

Beyond its previsible scarcity, the problems appear as the degradation of the ecological volumes, the is with salty properties the wet zones and the disappearance of the vegetation next to Water courses are indications of the ecological not balance provoked by the one on exploration of the derivatives of the natural water (hidricos) resources. It leads to the necessity of a sustainable management of this resource what relatively to the buildings it passes for the use of the water of the rain and renew the use of residual waters, for the minim of the pollution of the water lines and for the reduction of the consummations.

It compels the use of a methodology in the use of separate nets, that results in leads to the reduction of the amount of water with the direction for the stations of residual water treatments and the lesser expenses in treatments. The adoption of systems of land treatments in such a way allows the renew the use of pluvial waters as of used domestic waters residual already (proceeding from bathtubs, shower and water derived from other accessories of bath house etc.) in the place.

However some limits appear, the pluvial waters can be used for irrigations (after treated as he is described in the chapter of Influence of the Garden skyscrapers), wash as well as for the supplying of used water for the draining in accessory of bath house that collects the human dejections. But they cannot be used for food preparation nor for shower of bath therefore exists the risk of presence of bacteria. The systems of exploitation of these waters incorporate a tank of storage, a system of filters and another one of distribution with bomb and pipes of water supply. For an income-producing exploitation it is necessary that the building makes use of an area of significant pluvial water retraction, that in the present resolution that if intends to elaborate for them you enumerate existing openings in the almost pyramidal exterior surface of the building (exterior spaces or corridors with trees) that this model of skyscrapers looks for to make possible.

But used the domestic residual waters already, can be reused, after suffering to processes from filtration and disinfection, in discharges of accessory of bath house that collects human dejections or chamber pots, wash of exterior spaces, wash of cars and irrigation of gardens. This water has a lesser quality to the ones of pluvial waters previously related, therefore it has that to have one relatively pressed verification, the micron unhealthy organisms.



(figure 5 - A)

- a. Seedbeds, the raised level more, with trees, that absorb pluvial waters;
- b. Deposit of storage and treatment;
- c. Tap;
- d. Overflow;
- e. Fertilizers;
- f. Bomb of control;
- g. Solution of nutrients for the plant;
- h. Return