

12. Water System

- a. All large scale developments having one or more lots or platted building sites under five (5) acres in area shall have a central water system which shall supply water for culinary use and which shall supply water meeting the supply and flow requirements for fire protection.
- b. The water system shall have a storage facility which has a capacity to meet peak hourly culinary use, based on state health department standards, plus a minimum fire protection storage of 120,000 gallons. The storage capacity shall be proportionally increased if residential buildings over 3600 square feet in floor area (or other structures needing increased capacity) are to be permitted in the development, or if irrigation water is to be stored in the culinary - fire protection storage facility.
- c. The culinary - fire protection facility shall be designed and located so as to produce a gravity-induced fire flow of 1000 gallons per minute for a duration for at least two hours, in addition to simultaneous culinary or irrigation use. The delivery rate and duration amount shall be proportionally higher if residential buildings over 3600 square feet in floor area (or other structures needing increased capacity) are to be permitted in the development.
- d. Water mains in the culinary - fire protection system supplying fire hydrants, dwellings, and any irrigation needs, shall be sized according to an engineering study to adequately supply those uses, but in no case shall they be less than six (6) inches in diameter (no less than 8 inches in diameter if supplying a fire hydrant on a dead-end run longer than four hundred feet in length).
- e. Irrigation systems need not have a central storage facility, but must be designed to provide the water flows determined by the irrigation plan to be necessary during the growing season (April 15 to October 15).
- f. Irrigation systems are not required for more than one-quarter acre surrounding the dwelling, except in the RA-5, RR-5, and TR-5 Zones, where the entire lot is to be included in the irrigation plan.