DOMESTIC WATER SUPPLY

SEC. 7.01 DESIGN CRITERIA

(1) DESIGN CRITERIA

(a) The design criteria used for proposed water system improvements shall be that of the local water purveyor. If no such criteria exists, then the current design criteria of the Placer County Water Agency shall be used.

SEC. 7.03 LOCATION OF WATER MAINS AND FIRE HYDRANTS

(1) GENERAL

(a) All pipelines designed for the transmission or distribution of domestic water supply shall be located within rights-of-way dedicated for public streets or roads unless the use of an easement is specifically approved by the engineer.

(2) LOCATION OF WATER MAINS

a) In all new subdivisions, when the water mains are to be within the road right-of-way, they should be located on the north or west side of the street. When water lines are to be constructed in existing streets, they should be placed in the same location described above when practicable. However, traffic conditions, existing utilities, and other physical features shall be considered. The horizontal distance between parallel water and sanitary sewer lines shall not be less than 10 feet except when approved by the State Department of Health.

(3) LOCATION OF WATER SYSTEM APPURTENANCES

(a) Above Ground Appurtenances

When above ground water system appurtenances are proposed inside a county road right-of-way, if they are less than twelve (12) feet from the traveled way, a guard rail shall be constructed between the structure and the roadway.

DOMESTIC WATER SUPPLY

SEC. 7.01(3) (Continued)

(b) Below Ground Appurtenances

1. If below ground water system appurtenances are to be constructed inside a county road right-of-way, they shall be placed outside of the traveled way whenever possible. If the structure is placed in an underground box within a gravel road shoulder, a ten(10) foot long paved taper shall be constructed to the outside of the box. If underground structures are proposed to be within the traveled way, care shall be taken to place them in such a location as to cause the least amount of disruption of traffic flow when they have to be maintained by water system personnel. No underground boxes shall be placed in residential sidewalks.

SEC. 7.05 DISTRIBUTION SYSTEM

(1) FIRE HYDRANTS

- (a) Fire hydrants shall be constructed and located in accordance with the specifications of the local fire district and water district or the following minimum criteria.
 - Four feet from edge of pavement;
- 2. Two feet from back of Portland cement concrete sidewalk.

Note: Turnouts may be required per Sec. 19.105(3).

(2) SERVICE LINES

(a) Service lines from the water main to the property line shall be installed at the time the main is constructed wherever it is known or wherever it can be reasonably assumed that a connection is or will be required.

DOMESTIC WATER SUPPLY

SEC. 7.07 WELL, PUMPING PLANT OR TREATMENT PLANT SITE

No well, pumping plant, or treatment plant site shall be considered that will result in pumping equipment being within 50 feet of any existing building or where it can be reasonabley assumed that a building will be constructed. No well shall be located within 100 feet of an existing or a proposed sanitary sewer. Adequate access to the site shall be provided for removal and repair of equipment.

SEC. 7.09 MATERIALS

All materials and equipment shall conform to the requirements of the American Water Works Association Standards or the specifications of serving water agency, whichever is higher.

SEC. 7.11 CONSTRUCTION METHODS

Construction methods shall conform to Section 71A of the General Specifications.

SEC. 7.50 WELL CONSTRUCTION

Any well to be constructed for use as a domestic water supply of a single family dwelling shall be constructed to the standards as specified in Bulletin 74, Water Well Standards, State of California, Department of Water Resources.

SEC. 7.52 MINIMUM WATER QUANTITY

- (1) A well intended to supply domestic water for a single family residence shall provide an adequate water supply as determined below:
- (a) Five (5) gallons per minute for a period of four (4) hours (4 hrs x 60 min x 5 gpm = 1200 gallons); or,
- (b) When the well itself does not meet the criteria of (1) above, an adequate water supply may be produced from a combination of approved sources and/or storage capacity.
- (2) When storage capacity is utilized, the total gallons of water available shall be eugal to 1200 gallons. that 1200 gallons may be derived from the sum of the following:

DOMESTIC WATER SUPPLY

SEC. 7.52(2) (Continued)

- (a) Total well production (TWP) expressed in gallons for a four-hour period (240 x gpm = TWP in gallons);
- (b) Twenty-five percent of the total volume of the water system pressure tank (.25 x PTV = gallons);
- (c) In those wells having a static water level above the point of water discovery, that volume of water expressed in gallons, contained in the well casing between the static water level and the top of the pump (static water volume, SWV);
- (d) Auxillary storage required may therefore be computed by use of the following formula:
 - 1. 1200 TWP .25 PTV SWV = Aux. Storage
- (3) Wells producing less than one gallon per minute shall not be acceptable in meeting these requirements.
- (4) The production capacity of a well shall be certified by a licensed well driller, contrctor, or person licensed in the State of California for such a test or tests.
- (5) To establish proof of well capacity, the licensed well driller or contractor shall report to the Placer county Department of Health (on the forms supplied by the Department) the well production rate expressed in gallons per minute.

SEC. 7.54 ISSUANCE OF BUILDING PERMIT

- (1) No permit shall be issued for the construction of a single family dwelling (or mobile home installation) on lots of less than 100,000 square feet (2.3 acres) or in geographical areas of the County with known poor well yields when the domestic water supply is to be from an individual well, until the water supply has been established and meets the following criteria:
- (a) The available quantity of water meets the specific requirements as stated in Sec. 7.52.
- (b) The construction of the well meets the requirements of Sec. 7.50.

DOMESTIC WATER SUPPLY

SEC. 7.54(1) (Continued)

- (c) Proof of water quality (potability) shall not be required prior to the issuance of a building permit. However, a bacteriological and/or chemical test of the water supply may be required, at the discretion of the Health Department, prior to the occupancy of the dwelling.
- (d) When a bacteriological and/or chemical test indicates the water supply is not potable, a chlorinator and/or filter will be required such that the treated water is potable.