

ORDINANCE 58

AN ORDINANCE OF THE APPLE VALLEY FIRE PROTECTION DISTRICT ADOPTING MINIMUM STANDARDS FOR FIRE FLOW AND FIRE PROTECTION WATER SYSTEMS

The Board of Directors of the Apple Valley Fire Protection District ordains as follows:

SECTION 1 PURPOSE

The Board of Directors of the Apple Valley Fire Protection District finds that the following minimum standards for fire protection water systems are necessary for the provision of adequate fire protection service in this District, and for the public health, safety, and welfare.

SECTION 2 STANDARDS ADOPTED

The following standards and requirements are hereby adopted and shall be required of all fire protection water systems; In accordance with the California Fire Code (Current Edition).

I. GENERAL REQUIREMENTS

- a. The Fire District SHALL review and approve all water system improvement plans prior to the installation of said systems.
- b. The Fire District will conduct an inspection and acceptance flow test of all water fire protection systems.
- c. All fire hydrants SHALL be equipped with one four-inch steamer connection and two-2½" outlets with national standard threads.
- d. Riser lateral and street valve sizes shall be six (6) inch minimum.
- e. All fire hydrants SHALL be designed to withstand a working pressure of 150 psi and shall be approved by the Fire District.
- f. All fire hydrants SHALL be of the dry barrel type, self draining and fully operational with one valve.
- g. All fire hydrants SHALL be painted chrome yellow.
- h. Fire hydrants SHALL be set plumb with the lowest outlet no closer than 18 inches to the ground.
- i. The four-inch steamer connection SHALL be pointed toward the street or toward a direction indicated by the Fire Chief or Community Risk Reduction Division.
- j. Access to fire hydrants, which is acceptable to the fire authority, shall always be provided and maintained.

- k. Water systems and fire hydrants SHALL be installed and placed in service prior to construction.
- l. Fire hydrant installations SHALL be only new materials.
- m. All fire flow requirements for water systems SHALL be designed to be obtained over and above the average daily consumption of water and not less than 20 psi residual pressure.
- n. Damage to fire hydrants may occur by vehicle(s), where possible there SHALL be protection provided as approved by the fire authority.

II. GENERAL FIRE FLOW REQUIREMENTS

- a. All fire flow requirements for water systems shall be designed to be obtained over and above the average daily consumption of water and at no less than 20 psi residual pressure.
- b. Unless otherwise approved by the Fire Chief, on-site fire protection water systems shall be designed to be looped and fed from two (2) remote points.

III. SPECIFIC FIRE FLOW REQUIREMENTS

Fire flow requirements shall be as follows and in accordance with California Fire Code including Appendix B, Appendix BB, Appendix C, and Appendix CC (Current Edition).

- 1. Existing single-family residential property, all newly created subdivisions or newly created minor subdivisions within a water purveyor's service area, with lot sizes .5 acre or greater:

Fire Flow – 500 GPM
Duration – One (1) hour
Hydrant Spacing – 660 feet
Minimum Main Size – Eight (8) inches

- 2. Duplexes and mobile home parks:

Fire Flow – 1500 GPM
Duration – Two (2) hours
Hydrant Spacing – 660 feet
Minimum Main Size – Eight (8) inches

- 3. Triplexes, fourplexes, apartments, and condominiums:

Fire Flow & Duration – As determined by B105.1(1), B105.2, and B105.1(2) of the CFC.
Hydrant Spacing – 660 feet
Minimum Main Size – Eight (8) inches

4. Other residential property and buildings including hotels and motels, places of assembly, and all other commercial, industrial, and hazardous occupancies:

Fire Flow & Duration – As determined by
Tables B105.1(1), B105.2, and B105.1(2) of the CFC.
Hydrant Spacing – 330 feet
Minimum Main Size – Twelve (12) inches

Minimum Main Size may be increased or decreased based on the fire flow test provided by the water purveyor.

SECTION 3. MODIFIED HYDRANT SPACING

The spacing requirements of fire hydrants may be increased or decreased by the Community Risk Reduction Division with consideration to any or all the following:

1. Modified spacing will place hydrant(s) at an intersection.
2. Modified spacing will locate hydrant(s) for greater tactical firefighting advantage.
3. Modified spacing will decrease likelihood of damage by vehicles.

SECTION 4. AREAS WITHOUT WATER SERVING FACILITIES

a. Group “U” occupancies under 5,000 square feet, when approved by the Chief, may be exempted from fire flow requirements.

b. Buildings other than single family residences and group “U” buildings as identified above may provide fire flow in accordance with National Fire Protection Association Standard No. 1142; “Standards on Water Supplies for Suburban and Rural Fire Fighting”. for buildings provided that:

1. The building would not otherwise require an automatic fire sprinkler system under any other regulation.
2. If the building is equipped with an approved automatic fire sprinkler system, the water supply for the sprinkler system shall be in addition to the required NFPA 1142 storage tank.

c. Single family dwellings including mobile homes to be built on existing parcels .5 acre or greater in size which are not within a previously conditioned subdivision or single-family residential property within newly created minor subdivisions with all lot sizes .5 acre or greater in size will be deemed to have met fire flow requirements if any of the following are met:

- The property is within 1,000 feet of a fire hydrant capable of flowing a minimum of 250 gpm.
- The dwelling is provided with an approved automatic fire sprinkler system.
- The property is within five (5) miles of a staffed Apple Valley Fire Protection District fire station.

Fire flow requirements for mobile home properties may also be mitigated if provided a minimum 5,000-gallon water storage tank designated for firefighting purposes, accessible to fire apparatus and equipped with connections and valves approved by the Fire District. Refer to NFPA 1142.

SECTION 5. RESPONSIBILITY

The developer of any property within the Apple Valley Fire Protection District assumes responsibility for providing the fire hydrants and fire flow required by this ordinance.

SECTION 6. PENALTIES

- a. Any person(s) violating any provision of this Ordinance shall be guilty of a misdemeanor, punishable by a fine of not more than \$1,000 or by imprisonment not exceeding 6 months, or both such fine and imprisonment. The fire code official, with the concurrence of the Chief and the district attorney, is authorized to use administrative citations and fines as allowed by an ordinance of the Board of Directors in place of the violation penalties contained in this section. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

SECTION 7. REPEAL OF CONFLICTING ORDINANCES

Ordinance #42 adopting Minimum Standards for Fire Protection Water Systems is hereby repealed.

SECTION 8. VALIDITY

The Board of Directors hereby declares that should any section, paragraph, sentence, or word of this Ordinance or of the Code or Standards hereby adopted be declared for any reason to be invalid, it is the intent of the Board of Directors that it would have passed all other portions of this Ordinance independent of the elimination here from of any such portion as may be declared invalid.

SECTION 9. DATE OF EFFECT

This Ordinance shall take effect January 1, 2023.

ADOPTED this 15th day of November, 2022

YES: Vice President Conley, Director Hernandez, Director Hultquist, President Leary
 NO: ~~X~~
 ABSTAIN: ~~X~~
 ABSENT: Director Salas



D. Leary

 Daniel J. Leary, Board President
 Apple Valley Fire Protection District

ATTEST:

James Peratt

 James Peratt, Board Secretary
 Apple Valley Fire Protection District