



Yuma County Department of Development Services

2351 W. 26th Street, Yuma, AZ 85364

Dry Hydrants and Construction Standards

1. Purpose:

To establish minimum standards for the construction and location of dry hydrants required to be on site and provide access to sources of water for manual fire fighting operations.

2. Legislation:

2003 International Fire Code (IFC)

3. Definitions:

Alternative Water Supplies: Water supplies provided to meet the minimum fire flow/duration requirements where no municipal-type water system exists or to supplement an inadequate municipal-type water supply.

Dry Hydrant: An arrangement of pipe permanently connected to a water source other than a piped, pressurized water supply (municipal type) system that provides a ready means of water supply for firefighting purposes and utilizes the drafting capability of a fire department pump.

Fire Code Official: The Fire Chief or other designated authority charged with the administration and enforcement of the code, or a duly authorized representative.

Municipal-type water system: A system having water pipes serving hydrants to support manual fire fighting operations and domestic consumption; designed to furnish over and above domestic consumption, a minimum flow of 250 gallons-per-minute (gpm) at 20 pounds-square-inch (psi) residual pressure for a 2-hour duration.

4. Policy:

1. *Dry hydrants* shall be constructed of not less than 6 inch pipe. Pipe materials shall be installed and protected as described in the adopted plumbing code based on the material used.

2. The vertical portion of a *dry hydrant* that extends above grade shall not be less than 6-inch Schedule 40 pipe for materials other than plastic. Plastic piping materials shall be Schedule 80 and shall be provided with adequate bracing. Plastic piping materials extending above grade shall be provided with protection from sunlight as required by the installation standard for the material used.

3. To allow connection by multiple fire departments, all *dry hydrants* shall be fitted with a 4 ½-inch National Standard Thread (NST) male fitting and provided with a cap.

4. *Dry hydrants* shall be supported and/or stabilized using approved engineering practices.

5. *Dry hydrants* installed adjacent to traffic routes shall be provided with vehicle impact protection as described in Section 312 of the 2003 IFC.

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6. Additional installation requirements shall comply with the Yuma County Public Works Standards and NFPA 1142.

7. *Dry hydrants* shall be installed in approved locations. Plan submittals shall include the location and installation details for all *dry hydrants*, tanks, cisterns and piping serving as the *alternative water supply*. Separate permits shall be obtained for the installation of *dry hydrants*, tanks, cisterns and piping for *alternative water supply* systems.

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