

Desert Hills Fire District

3983 London Bridge Road
Lake Havasu City, AZ 86404
(928) 764-3333 (FAX) 764-2397

Resolution No. 2025-01

Resolution to Adopt Appendix O, Fire Hydrant Installation

Whereas, the Desert Hills Fire District (hereafter "the Fire District") is a legally recognized district in the County of Mohave, State of Arizona; and

Whereas, the Fire District is currently enforcing Uniform Fire Code 2018, and its appendices in their entirety;

Whereas, the Fire District is seeking to adopt the updated Appendix O, Fire Hydrant Installation in its entirety; and

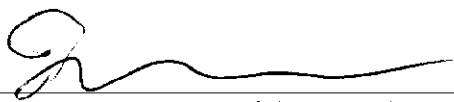
Whereas, it is in the best interest of the Fire District to adopt appendix O, Fire Hydrant Installation, in its entirety; for the preservation of life and property.

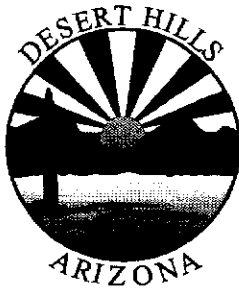
Now, Therefore, be it Resolved by the elected Desert Hills Fire District Board of Directors, that the Fire District agrees to adopt Appendix O, Fire Hydrant Installation, in its entirety.

VOTE ON PASSAGE: 4 Yea 0 Nay Abstain

Attest: 
Rich Fountain, Board Member

I, Roger, Chairmen of the Board, do hereby certify that the foregoing Resolution No. 2025-12 was voted upon and approved by a majority vote of the Board, on the 15th day of January, 2025; and I further certify the compliance with the Codified Resolution and the laws of the Board.


Tom Roger, Chairmen of the Board



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Appendix O is added as follows:

Appendix O

Fire Hydrant Installation

An approved water supplies capable of supplying required fire flow for fire protection were required per Uniform Fire Code 2018, shall be provided to all premises upon which buildings or portions of buildings are hereafter constructed. When any portion of the building protected is in excess of 400 feet from a water supply on a public street, there shall be provided, when required by the Chief, on-site fire hydrants and mains capable of supplying the required fire flow.

- 1) Paved access to fire hydrants of at least twenty (20) feet in width, twenty-six (26) feet in width within a cul-de-sac at the fire hydrant, shall be provided and maintained to accommodate fire apparatus.
 - a) When fire protection facilities are to be installed by the developer, such facilities including all surface access roads shall be installed and made serviceable prior to and during the time of construction.
 - b) Fire hydrants shall be installed in approved locations per specifications, with an average spacing between fire hydrants shall be in accordance with Table C102.1. or may be modified by fire official (AHJ)
- 2) The fire hydrant shall be the manufacturer's latest and best design, conforming to the latest issue of A.W.W.A. specifications C-502, and the specifications within. **The types of fire hydrants specified by the Desert Hills Fire District will be the Jones Wet Barrel Series Triton J-4060 or J4060HP.** Wet barrel hydrants are the most efficient to use and easiest to maintain by the water district or private water company, wet barrel fire hydrants are only to be used. Variations from these types of fire hydrants will not be allowed, paperwork must be submitted and approved by the fire official.
- 3) It shall be the responsibility of the Office of Fire Prevention to establish the general location of the fire hydrants to be installed.

The above information is to include information on the hydrant location such as side of street, side of driveway and distance from project, street side of driveway and distance from project.

- 4) It shall be the responsibility of the owner, developer, job superintendent or general contractor of the project to identify the exact location for each hydrant. That was approved by the Fire Prevention Officer. *This is to ensure that the center of the hydrant is located within 18 inches of the back of a sidewalk, if applicable, and that the break-away flange of the hydrant is to be at level, maximum 4 inches above*

sidewalk or finish grade and 2 ½ inches above concrete ring. Hydrant shall be installed per Desert Hills Fire District Specifications and all necessary inspections made.

- 5) The allowable distances between the above grade flange and the finish grade shall be four (4) inches maximum. The flange shall be a minimum of two and one half (2 ½) inches above the concrete ring. (If fire hydrant is below grade or higher than allowable 4" above grade, fire hydrant will need to be raised or lowered by installation contractor).
- 6) The outside of the hydrant top section shall be painted a minimum of one coat primer and two finish coats of federal safety yellow enamel.
- 7) Both the operating nut and the nozzle cap nuts shall be National Standard pentagon in shape and measure 1 ½ inches from point to flat at the base of the nut. Nozzle caps shall be provided with rubber gaskets and retaining chains.
- 8) Hydrants shall have 2 ½ inch (ODM-3.0686 and a TPI of 7) inside diameter hose nozzles with National Standard fire hose coupling threads and one 4 ½ inch (ODM-5.7609 and a TPI of 4) inside diameter pumper nozzle with National Standard fire hose coupling screw threads.
- 9) Main valve opening shall have a minimum diameter of 5 ¼ inches to assure optimum flow.
- 10) The fire hydrant shall have not less than 6 inches diameter pipe size connection of PVC Schedule 200 or approved piping.
- 11) An epoxy lined gate valve shall be installed between the water main and the fire hydrant, bolted by flange to the tee, in order to facilitate hydrant repair without interruption of the water supply in the main.
- 12) The hydrant connection into an existing main shall be of the hot-tap style (without interrupting water supply in the main) using a stainless steel or case iron tapping tee and a tapping valve with flange.
- 13) Concrete thrust blocks, of appropriate size and a shape, shall be installed at all changes in direction or any point where pressure would exist. Inspections and approval are required by The Desert Hills Fire District and water department if they choose to be onsite.
- 14) Street valve boxes shall have a concrete reinforcement ring installed around them at a grade level.
- 15) All fire hydrant installations trenches shall remain open for inspection for pre-thrust and post thrust block inspection. The Desert Hills Fire District and a representative from water company if they choose to be on site. Must be approved before any backfilling.
- 16) Plan review and permits are required and shall be obtained from the water company, planning and zoning, and the fire district. Applicable fees shall be paid to the individual organization.
- 17) Hydrants or Stand pipes installed in a commercial area without curbing shall have guard posts installed to protect such hydrant or stand pipe if indicated by the department. These posts are to be of 4" inch or 6" steel pipe positioned 36" inches from hydrant, so not to interfere with the connectors to any of the nozzles. These posts shall be cemented in the ground vertically, with a minimum of 36" inches exposed above grade level and 36" inches below grade, the posts are to be filled with concrete and capped with concrete. Upon cement curing, the posts shall be painted federal safety yellow for ease of visibility. The size of the post to be used will be determined by the fire official.

- 18) All hydrant barrels shall be reinforced with a concrete slab, 36" inches in diameter, or 36" inches square, 3 ½" inches in depth and installed close to grade level, at least 2 ½ inches below the flange.
- 19) Contractors shall call Blue Stake for utilities location prior to any excavation.
- 20) If a hydrant or the plumbing thereto is installed within the following allowed distances of another utility, that utility will be contacted to inspect the same before backfill:
 - Gas – 6 inches
 - Telephone Communications – 1 inch
 - Electrical – 3 feet
 - Cable TV – only if damaged
- 21) The Desert Hills Fire District has installed fire hydrants throughout the district in accordance with plan specifications. Due consideration has been given to existing or prior conditions. If changing conditions due to street upgrading or new site development should occur and necessitate the changing out of fire hydrant, grade or location, the person responsible for the changes will submit plans and permits to the fire department.
- 22) Insurance – all parties working within the County right of way shall comply with County current liability insurance requirements.
- 23) Applicable Permits – County, Utility and Fire District requirements and fee schedules.
- 24) Fees – all fees must be handled prior to Inspections. Fees will be posted on the district fee schedule.
- 25) There will be BLUE REFLECTORS in the street to help locate fire hydrants at night. They will be installed 6" off center to the side that the fire hydrant is on.
- 26) If a commercial building is not sprinklered the fire official will refer to a Stand Pipe to be a 2 ½" threaded pipe coming out of the ground with a 2 1/2" jones head attached to threads.