



Benicia Fire Department – Fire Prevention Policies

Subject: WATER SUPPLY AND FIRE HYDRANTS

Section: B

Effective Date: April 2, 2009

Standard B-204

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Revised Date: July 1, 2015

Authority: Benicia Municipal Code Chapter 8.28, National Fire Code Standard #24, California Fire Code and Public Works Standards.

1. **WATER SUPPLY:**

An approved water supply capable of supplying the required fire flow for fire protection shall be provided to all areas upon which buildings are constructed.

2. **HYDRANTS:**

Hydrants to be Clow Model 2060, wet barrel hydrant with 2 – 2 ½ inch outlets and 1 – 4 ½ inch outlet.

Fire hydrant spacing (on center):

300 feet – commercial and industrial

400 feet – residential – high density (R-1)

500 feet – residential – low density (R-3)

When any portion of a building is excess of 150 feet from a hydrant on the public street, on-site fire hydrants and mains capable of supplying the needed fire flow may be required. All hydrant and water main installation shall meet City of Benicia Public Works Standards and Fire Department Standard B-201.

All hydrants shall be accessible to fire department apparatus by approved roadways.

Fire hydrants shall be placed at least forty feet (40') from the buildings protected. Exception: When hydrants cannot be placed at this distance, they may be located closer provided they are set in locations by blank walls where the possibility of injury by falling walls, etc. is unlikely, and from areas where there is a chance of heat and smoke. (NFPA 24 7.2.4)



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Fire hydrants shall be within fifty feet (50') of the fire department connection (FDC) whenever possible.

The lowest stem shall be a minimum of eighteen inches (18") above the finished grade.

BOLLARDS – (crash posts) – when needed shall be four (4) inches cement filled pipe, minimum three (3) feet in height with two (2) feet of pipe below grade.

A minimum of three (3) feet clearance on all sides of hydrants; such as vegetation, posts, fences, etc., a clear area of fifteen (15) feet each side of the hydrant.

BLUE DOTS – Place blue, two-way reflective pavement marker opposite the hydrant six inches (6") in from the centerline of the street.

All hydrants to be pressurized and operable prior to and during construction. The hydrants will remain accessible to fire department apparatus at all times during construction.

See Attached:

- (a) Fire Hydrant Installation – Public Works Standard W-1
- (b) Clow 2060 Fire Hydrant Detail