



COASTSIDE FIRE PROTECTION DISTRICT OFFICE OF THE FIRE MARSHAL

Address: 1191 Main Street, Half Moon Bay, CA, 94019 | Phone: (650) 345-1612

Email: cfdfiremarshal@fire.ca.gov | Website: www.coastsidefire.org

STANDARD DETAIL AND SPECIFICATION MANUAL

Section: Fire Protection Equipment	Title: Standard Hydrants
Effective: January 10, 1999	Revised: January 18, 2019
Number: FPE-001	Authorized By: Gary Silva, Fire Marshal

PURPOSE:

The Fire Marshal is authorized to require the installation of fire protection water supplies and fire hydrants in accordance with the provisions of the Fire Code. The information contained within this document is to serve as a guideline for installation of such equipment

GENERAL:

Definitions for terms used within these specifications are as follow:

- Fire Flow: The amount of water required for fire department use for fire suppression operations.
- Piping: Any piping approved for use by the National Installation Standards or by the Fire District
- Velocity Factor: The speed of water in the pipe in feet per second.
- Wharf Hydrant: A hydrant with one 2 1/2 inch outlet.

HYDRANT SPECIFICATIONS

HYDRANT TYPE:

The following list of hydrant minimum standards for residential shall be used. Wharf Hydrants may not be used for installations under this Standard.:

RESIDENTIAL:

<u>City/Town</u>	<u>Hydrant Type</u>
El Granada	Clow 960 or equivalent as approved by Fire Marshal
Half Moon Bay	Clow 960 or equivalent as approved by Fire Marshal
<u>City/Town</u>	<u>Hydrant Type</u>
Montara	Clow 960 or equivalent as approved by Fire Marshal
Moss Beach	Clow 960 or equivalent as approved by Fire Marshal
Other	Clow 960 or equivalent as approved by Fire Marshal



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COMMERCIAL:

City/Town

Half Moon Bay

El Granada

Princeton

Hydrant Type

Clow 2065

Clow 2065

Clow 2065

HYDRAULIC CALCULATIONS:

Hydraulic calculations may be required to verify required fire flow at hydrants prior to installation. If required by the Fire District, hydraulic calculations shall be part of the plans' submittal. Maximum Velocity Factor shall be 15 feet per second for hydraulic calculations.

FIRE DISTRICT PERMITS:

Permits are required. Contact the Fire Prevention Secretary for details regarding permits, applications, and fees.

INSTALLATION REQUIREMENTS:

Installation work shall only be done by individuals who are trained and licensed to perform such work. Poor workmanship will not be accepted for approval.

All materials shall be new or in good physical condition. The Fire District reserves the right to disapprove the use of any used materials.

INSTALLATION INSPECTION:

All underground piping and valves shall be inspected by the Fire District prior to covering.

Hydrostatic, flow, and water flushing tests shall also be required prior to final acceptance of the installation.

OTHER INSTALLATION REFERENCE GUIDES:

All installations shall also conform to the National Fire Protection Association NFPA 24: Installation of Private Fire Service Main and their Appurtenances.



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PAINTING OF FIRE PROTECTION EQUIPMENT AND HYDRANTS

Fire protection equipment shall be painted red, in accordance with the Coastside Fire Protection District Ordinance, section 912.2.1.1 **Painting of Fire Protection Equipment and Hydrants**.

Hydrants should be identified as specified in NFPA – 291 Sec. 5.2.1.2 as shown:

Hydrants should be classified in accordance with their rated capacities (at 20 psi [1.4 bar] residual pressure or other designated value) as follows:

- Class AA – Rated capacity of 1,500 gpm or greater (5,680 L/min)
- Class A – Rated capacity of 1,000 – 1,499 gpm (3,785 – 5,675 L/min)
- Class B – Rated capacity of 500 – 999 gpm (1,900 – 3,780 L/min)
- Class C – Rated capacity of less than 500 gpm (1,900 L/min)

All barrels are to be chrome yellow except in cases where another color has already been adopted. The tops and nozzle caps should be painted with the following capacity – indicating color scheme to provide simplicity and consistency with colors used in signal work for safety, danger, and intermediate condition:

- Class AA – Light blue
- Class A – Green
- Class B – Orange
- Class C – Red

For rapid identification at night, it is recommended that the capacity colors be of a reflective-type paint.