

WOODSIDE

FIRE

PROTECTION

DISTRICT



Water Supply

Fire Dept. Submittal Requirements

808 Portola Rd. · Portola Valley, CA · 94028 · Fire Prevention 650 423-1405 · Fax 650.851-3960

One and Two Family Dwellings: (2007 CFC appendix B including amendments referenced in Woodside Fire Protection District's Ordinance 8.)

SECTION B105.1 FIRE FLOW REQUIREMENTS FOR BUILDINGS

B105.1 One- and Two-Family Dwellings.

The minimum fire flow shall be 1000 gallons per minute. A water supply for fire protection shall mean a fire hydrant within 500 feet from the building, capable of the required fire flow. The fire flow may be reduced by 50% if the building is provided with an approved automatic sprinkler system.

***Distance from hydrant to structure shall be measured via an approved roadway in which the engine can safely drive from the hydrant to front door of structure.*

Where a public or private water company is not within 1000 feet of the required fire hydrant location, or the water company cannot provide 1000 gallons per minute, NFPA 1142 Standard on Water Supplies for Suburban and Rural Fire Fighting 2007 Edition will be adhered to for fire flow requirements. Refer to page 2 for Draft Hydrant Requirements

EXCEPTION: The fire flow may be reduced by 50% if the building is provided with an automatic sprinkler system.

Land Divisions and Subdivisions:

The minimum fire flow shall be 1000 gallons per minute at 20 p.s.i. residual. Fire hydrants need be 500 feet apart within 500 feet from structures.

Water mains and hydrants shall meet American Water Works Standards. 6'' water main minimum. Systems should be engineered to establish the correct fire flow capacity. All fire flow capacities (gpm) should be show on plans.

General:

All new fire hydrants shall be steamer type CLOW 960 wet barrel, having at least (1)- 4 ½'' outlet and (2)- 2 ½'' outlets, all having national standard threads.

Woodside Fire Protection District shall approve all fire hydrant locations.

Hydrants shall be 500 feet from structures and shall be measured on an approved route in which the engine can safely drive.

**PLANS SHALL SHOW DISTANCE OF NEAREST FIRE HYDRANT
HYDRANT NEEDS TO BE OPERABLE PRIOR TO ROUGH FRAMING!**

Where a public or private water company is not within 1000 feet of the required fire hydrant location, or the water company cannot provide 1000 gallons per minute, draft hydrant systems will be required. NFPA 1142 Standard on Water Supplies for Suburban and Rural Fire Fighting 2007 Edition will be adhered to for fire flow requirements.

Draft Hydrants Requirements:

When using a drafting hydrant connected to a swimming pool, tank, or pond the following requirements must be complied with and shown on plans on plans:

PLANS TO INCLUDE:

- Square footage of largest structure.
- Water source and capacity in gallons.
- Elevation between fire department connection/hydrant and bottom of water source. (*Elevation of fire dept. connection not to exceed 15 feet above bottom of water source*)
- Distance from pipe connection from water source to fire department connection/hydrant.
- Calculations indicating fire flow, including pipe size, bends, elevation and distance.
- Piping to include kick blocks (24"x24") @ each bend and constructed of materials that will withstand corrosion and electrolysis.
- Height of the fire department connection/hydrant which shall be 3 feet off the ground.
- Location of the fire department connection/hydrant which shall be field approved by WFPD.
- Fire dept. connection will include minimum of male 4 ½", national standard thread and cap.
- If fire dept connection is a hydrant, specify Clow 960 wet barrel with (1) - 4 1/2" and (2) - 2 1/2" outlets.

SPECIAL REQUIREMENTS:

- Woodside Fire Protection District can provide a blue dot to indicate the location of the fire department connection/hydrant.
- Location of the fire department connection/hydrant which shall be field approved by WFPD.
- Draft system is required to be tested by Woodside Fire Protection District upon completion of installation. Final permit approval and occupancy will not be given until system has been inspected and tested.
- Fire dept. connection will include minimum of male 4 ½", national standard thread and cap.
- If fire dept connection is a hydrant specify Clow 960 wet barrel with (1) -4 1/2" and (2)- 2 1/2" outlets.