



Riverside Office: 2300 Market St., Ste. 150, Riverside, CA 92501 Ph. (951) 955-4777 Fax (951) 955-4886
 Palm Desert Office: 77-933 Las Montañas Rd., # 201 Palm Desert, CA 92211-4131 Ph. (760) 863-8886 (760) 863-7072

Fire Prevention Standard

Title: Temporary Fire Department Access and Water Supply During Construction			
Number: # 06-06	Effective Date: 1-1-07	Revised Date: 3-31-08	
Code References: 2007 California Fire Code, Chapter 14; Chapter 5 Sec. 508			
Note: <i>This guideline is a summary of Fire Department clarifications of County and State Codes. Information contained herein applies to typical circumstances and may not address all situations.</i>			
Author: Committee	Date:	Approved: T. Hobday, FM	Date:
Sign:	10-1-07	Sign: On File	1-1-07

Scope

This standard has been developed to assist development applicants, architects, and contractors in determining the minimum requirements for providing temporary fire department access and permanent water supply during construction.

Codes and Standards

This standard has been based upon the 2007 California Fire (CFC), Chapter 14 – Fire Safety During Construction, Chapter 5 – Fire Service Feature and Riverside County Ordinance 787.3 Chapter 5, Sec. 501.4 – Timing of Installation.

1410/503 Required Access. Fire department access roads shall be established and maintained in accordance with Chapter 5, Section 503.

EXCEPTION: When approved, temporary access roads of a width, vertical clearance and surface which provide access for fire department apparatus are allowed to be used until permanent roads are installed.

1412.1 Water Supply. Water mains and hydrants shall be installed and operational in accordance with Section 1412, Chapter 5 Section 508 and County Ordinance 787.3 Chapter 5, Sec. 501.4

501.4 Timing of Installation. When fire protection, including fire apparatus access roads and water supplies for fire protection, is require to be installed, such protection shall be installed and made serviceable prior to and during the time of construction. Temporary street signs shall be installed at each intersection when construction of new roadways allows passage by vehicles.

Plans Required

Detailed plans shall be submitted to the Riverside County Fire Department Fire Protection Planning Section (RCFD FPPS) for review and approval prior to construction in accordance with Appendix Chapter 1, Sec. 105.4. A copy of RCFD FPPS stamped approved plans shall be available at the time inspection. Two copies of the site plan drawn to scale shall be submitted for review and approval with the following information:

- 1) Tract Map number
- 2) Project address
- 3) City
- 4) Hydrant locations
- 5) Appropriate details of all materials and equipment
- 6) Roadway locations

7) Letter or statement on plans, wet stamped and signed by a registered engineer for roadway design

Specific Requirements

Temporary access roadways:

- 1) Fire access roadways shall be engineered
- 2) Roadway shall be an all-weather surface
- 3) Roadways shall facilitate the weight of 60,000 lbs over 2 axles
- 4) Turning radius shall be a minimum of 45 feet
- 5) Gradient shall be no greater than a 15% up or down grade
- 6) Vertical clearance shall be 15 feet
- 7) Horizontal width shall be 24 feet
- 8) Dead-end access roadways in excess of 150 feet shall be provided with an approved turn around or hammerheads

Permanent water for fire protection:

- 1) Hydrant(s) located within 400 or 600 feet of all exterior portions of the structure(s) as measured along vehicular access.
- 2) Standard Hydrant (6"x4"x2½") shall be required with a minimum fire flow of:
 - a) 1000 GPM @ 20 psi for Group R3 and U occupancies
 - b) 1500 GPM @ 20 psi for all other occupancy classifications
- 3) The size of Fire Main pipes shall be a minimum of 6" in diameter. Hydraulic calculations, along with flow test information, shall be provided to determine the actual pipe size required to provide the minimum required fire flow with a maximum velocity not to exceed 20 feet per second.
- 4) The required water system, including all fire hydrants, shall be installed and accepted by the appropriate local water purveyor and the RCFD FPPS prior to any combustible material is placed on the site.
- 5) The water system shall be for fire department use only.