



**ANAHEIM FIRE & RESCUE**  
**Community Risk Reduction Division**  
201 S. Anaheim Blvd., #300  
Anaheim, CA 92805  
(714) 765-4040



**ACCESS FOR NEWLY CONSTRUCTED RESIDENTIAL,  
COMMERCIAL, AND INDUSTRIAL DEVELOPMENTS**  
**SPECIFICATIONS & REQUIREMENTS**

References: California Fire Code, Anaheim Municipal Code

Access roads shall be required for every building, when any portion of a first story exterior wall is located more than 150 feet from fire department vehicle access, as measured by an unobstructed approved route around the exterior of the building. For high-rise buildings please refer to Anaheim Fire & Rescue Specifications and Requirements for high-rise buildings.

**MINIMUM REQUIREMENTS FOR FIRE ACCESS ROADS**

**Minimum Widths**

1. 20 feet – clear of any ground level or vertical obstruction
2. 24 feet – when providing access to carports or open parking spaces
3. 26 feet – for buildings more than three stories in height. Access road shall be a minimum of 10' from the building.

To allow parking on one side, these dimensions shall be increased a minimum of eight feet. To allow for parking on both sides, the dimensions shall be increased a minimum of 16 feet

**Minimum Vertical Clearance**

Fourteen (14) feet vertical clearance shall apply to archways, cantilevered structures, balconies, signs, lamps or other projections for the minimum 20-foot width.

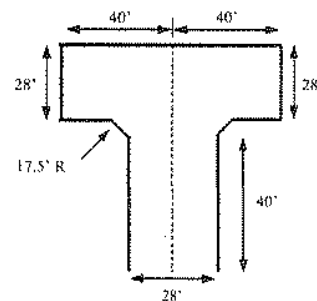
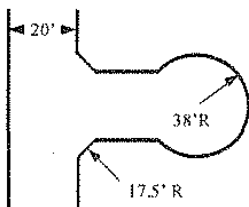
**Minimum Corner Cutoffs or Radius**

Provide a 17.5 foot radius for a 20 foot wide access way. Refer to City of Anaheim Engineering Standard 106 for additional information, if necessary.

**Turn-Around Areas**

Turn around areas are required for any access way in excess of 150 feet.

1. **Cul-de-sac** turn around-areas must have a minimum 38-foot radius to the curb (76 foot diameter). No parking shall be permitted and the area shall remain clear of all permanent or immovable structures or obstructions.
2. **Hammerhead** or T turn-around areas must have a minimum lane width of 28 feet. Top of T will be 80 feet long, 40 feet off center in each direction.



**Grades**

All streets (public or private) and driveways shall have a maximum grade of 10%, and shall conform to City of Anaheim engineering standards.

### **Access and Loading**

Facilities, buildings or portions of buildings shall be accessible to fire department apparatus by way of an approved fire apparatus access road with an asphalt or concrete surface capable of supporting the imposed load of fire apparatus weight of at least 78,000 pounds.

### **Gates and Speed Bumps**

Gates shall open to provide a minimum of 20-foot clear width.

**Exception:** separate gates provided for both ingress and egress may be a minimum of 12 feet each.

Electrically operated gates shall be provided with a Knox override switch located on the entry side of the gate in an approved location. Manually operated gates shall be provided with a Knox padlock. In addition, all electrically operated gates providing fire access to greater than twenty residential units, or when otherwise required by the Chief, shall be provided with an approved remote opening-preemptive system that is controlled by either public safety radio frequency or optical emitter.

Speed bumps and directional barriers such as spikes are not permitted in fire access roads.

### **Access to Rescue Windows and Other Required Openings**

All buildings equipped with openings, as required by the Fire and Building Code shall be provided with an approved direct access route from the fire access road to accommodate fire department operations. The access route shall be a minimum of six (6) feet in width and be designed to accommodate a twenty-one (21) foot fire department ladder. A clear area of at least eight (8) feet in width shall be maintained free of permanent obstructions below all required rescue windows to allow for fire department ladder placement.

## **FIRE HYDRANTS**

### **Location and Installation**

No structures or external portions thereof shall be more than 300 feet travel distance from a fire hydrant. All hydrants, public or private, shall be installed in accordance with the City of Anaheim Water Engineering Standard W-110, with the following exceptions:

1. Private on-site fire hydrants shall be located at least 40 feet from any structure where possible and identified by installation of blue reflective markers.
2. Private on-site fire hydrants shall be located no closer than 24 inches and no more than 26 inches from the face of the curb to the center of the hydrant barrel.

Protective devices (curbs, rails, concrete-filled pipes, etc.) shall be provided to protect all fire hydrants from vehicular traffic where adjacent to vehicular access ways. Such devices shall not obstruct use of the hydrant connections. A three (3) feet clearance must be provided around all hydrants.

### **Type of Fire Hydrants**

Fire hydrants shall have two (2) 2 ½ inch connections, and one (1) four inch connection, served by a minimum six inch water line

1. Larger water lines are required when serving more than one hydrant
2. If the water line is capable of providing in excess of 3,000 gallons per minute, the hydrants shall have one (1) 2 ½ inch connection and two (2) four inch connections.

### **Parking Clearance**

Parallel parking is prohibited for 7 ½ feet on each side to permit accessibility to the hydrant.

### **Fire Flows**

All hydrants, public or private, must be designed to provide a minimum 1,500 gallons per minute at 20 psi residual pressure. All fire flow requirements shall be established according to California Fire Code, Appendix B.

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