



CHINO VALLEY INDEPENDENT FIRE DISTRICT FIRE PROTECTION STANDARD

EMERGENCY ACCESS WAYS

STANDARD # 111 REVISED 5/26/2016 PAGES 5

1. ADMINISTRATIVE

- 1.1 **AUTHORITY:** This standard is adopted under authority of the 2013 California Fire Code Chapter 5 and Appendix D, as adopted by Chino Valley Independent Fire District.
- 1.2 **SCOPE:** This standard applies to every public and private street, road, alley, drive and access way within the boundaries of the Chino Valley Independent Fire District.
- 1.3 **DEFINITIONS:** For definitions of APPROVED and FACILITY, see California Fire Code Chapter 2.
- 1.4 **PLANS SUBMITTAL:** A minimum of three (3) complete sets of detailed plans, drawn to scale, shall be submitted to the Chino Valley Fire District for review and approval prior to modification or installation.

2. GENERAL

- 2.1 **DESIGN:** All Fire Department Access Roads shall be constructed in accordance with Chapter 5 of the California Fire Code (CFC) and with this Standard.
- 2.1.1 **Vehicular Access During Construction:** The development and each phase shall have at least two (2) points a vehicular access for Fire District and other emergency vehicles as well as for routes of egress for evacuations. Fire Access Roads shall be constructed and approved prior to combustibles being brought onto the site. Temporary "NO PARKING FIRE LANE" signs shall be posted during construction.
- 2.1.2 **Road Width and Surface:** All Fire Department Access Roads shall have a twenty-six foot (26') minimum unobstructed width, with parking restrictions on both sides, unless deemed otherwise by the Fire Chief. Fire Department Access Roads shall be constructed with an all weather surface, such as concrete or asphalt, designed and maintained to support the imposed loads, 67,000 pounds, of Fire Apparatus.
- 2.1.3 **Turns and Curves:** All turns or curves in Fire Department Access Roads shall have no less than a twenty foot (20') inside turning radius and no less than a thirty five foot (35') outside turning radius for emergency equipment; a larger radius may be required

by the Fire Chief. Vertical clearance shall be a minimum of thirteen feet six inches (13'6").

- 2.1.4 Grade: Any Fire Department Access Road shall not exceed twelve percent (12%) grade unless approved by the Fire Chief.
- 2.1.5 Roads Over 150 feet: Any Fire Department Access Road in excess of one-hundred-fifty feet (150') shall be provided with an approved turn-around.
- 2.1.6 Cul-de-sacs: The length of the street leading to a cul-de-sac shall not exceed six hundred feet (600'), except in a Fire Restriction 1 (FR1) Zone, where the length of the street leading to a cul-de-sac shall not exceed three hundred fifty feet (350').
- 2.1.7 Design Obstructions: Fire Department Access Roads shall not be obstructed by any means, including but not limited to trash enclosures, utilities, gates, fencing, etc.
- 2.1.8 Gates: The Fire District shall approve Emergency gated access. Proposed gated communities and/or secured commercial/industrial sites shall comply with Fire District Standard No. 116.
- 2.1.9 Speed Bumps: Speed bumps are designed to reduce speed. Therefore, they impede the response of emergency vehicles and increase estimated travel time into an area. The Fire District does not encourage speed bumps as a mitigation to reduce speed. Alternatives such as stop signs, speed limit signs and street design should be considered. If speed obstruction devices are installed, they should be of the low profile (speed hump) design. The Fire Chief shall be the approving authority when all other possibilities are exhausted.
- 2.1.10 Dead-End Streets: All dead-end streets shall end in a turn-around or cul-de-sacs for emergency equipment.
- 2.1.11 Access to Multi-Family Residential Units: In all apartments, duplexes, triplexes, condominium or cluster-type housing all portions of buildings shall be within one hundred fifty feet (150') of the edge of the travel way of an improved public alley, street, driveway or designated fire lane. Walkways to buildings shall be a minimum of five feet (5') in width and shall be provided at no less than one hundred fifty foot (150') intervals.
- 2.1.12 Perimeter Access to Fuel Modified and Fire Hazard Areas: Development projects shall provide for adequate vehicular access for firefighting vehicles to the development perimeter. Access ways shall be at least twelve feet (12') in width, with a grade not to exceed 12%, and capable of supporting fire apparatus, between the development perimeter and proposed or existing streets. Access ways shall be spaced at intervals of not more than three hundred-fifty feet (350') along each street. Project conditions shall provide for continual maintenance of these areas.

2.1.13 Easements: Access drives which cross property lines shall be provided with CC&R's, access easements or reciprocating agreements and shall be recorded on the titles of affected properties. Copies of the recorded documents shall be provided at the time of Fire District Plan Review.

2.1.14 Fire Lanes: "NO PARKING FIRE LANE" signs shall be installed in interior access drives and at locations designated by the Fire Prevention Division. Fire District Standard No. 121 shall be complied with.

2.2 MAINTENANCE OF ACCESS

2.2.1 Emergency Access: All streets and access ways shall be maintained in such manner as to provide access for emergency vehicles at all times, including construction operations.

2.2.2 Maintenance of Landscaping: Landscaping placed in decorative medians shall not be obstructive to fire equipment at the time of planting nor later at mature growth, and shall not impede firefighting operations or emergency vehicle signal devices at any time.

2.2.3 Other Obstructions: No other obstructions blocking or restricting a Fire Department Access Road shall be allowed.

3. **Date of Effect**

The revisions in this standard shall apply to all projects that are approved after its effective date. All drawings and plans submitted for approval on or after the signature date of the Fire Chief shall comply with the provisions set forth within this Standard.

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REVISED 5/26/2016

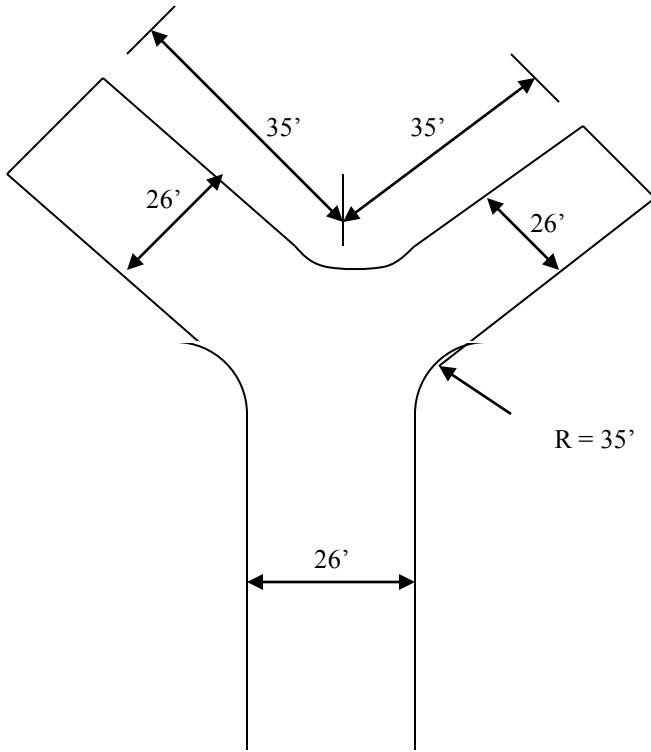
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Past Revisions: Standard 111

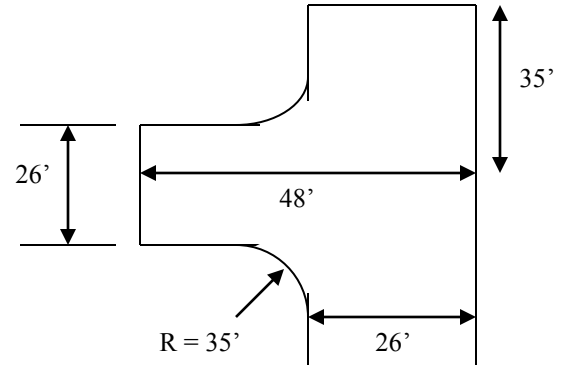
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History: Previously Standards 111

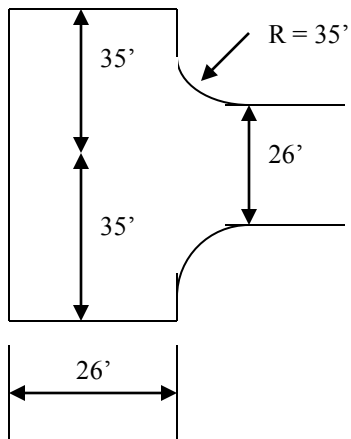
STREET DESIGN ILLUSTRATIONS



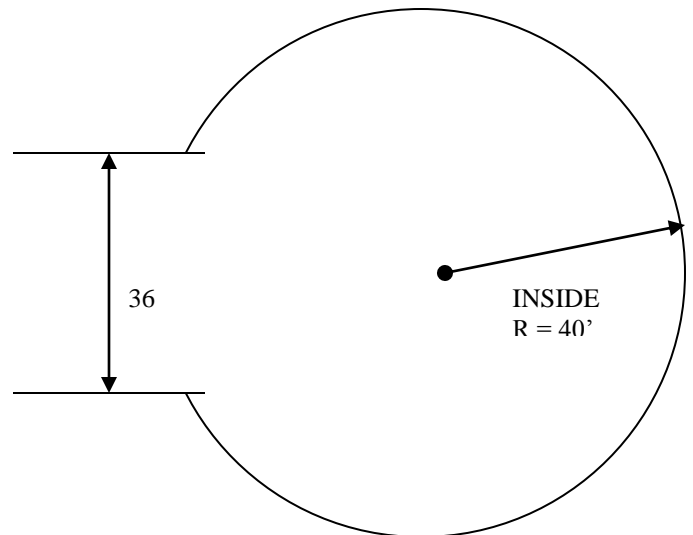
TURN-AROUND



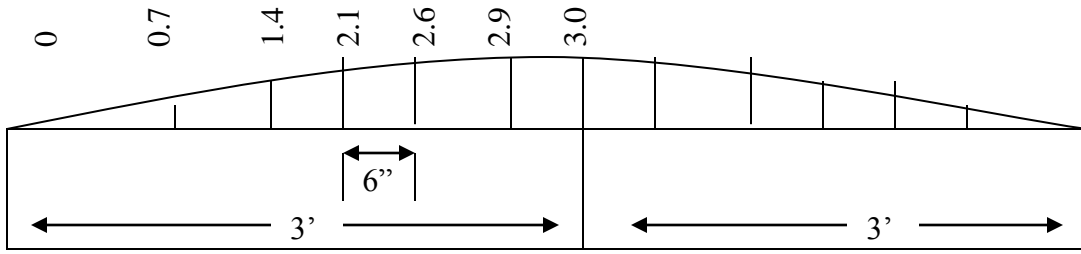
TURN-AROUND



HAMMERHEAD
TURN-AROUND



PRIVATE ST. (CUL-DE-SAC)



Moderate Hump Height in Inches