



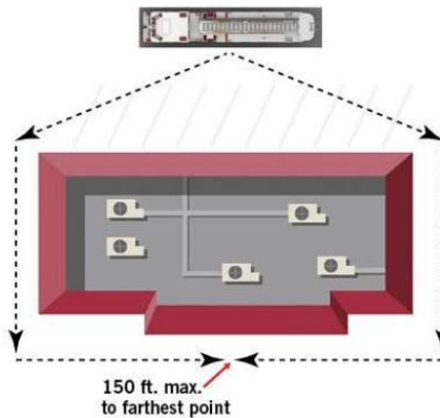
Stockton Fire Department • Fire Prevention Division
345 N. El Dorado Street, Stockton, CA 95202
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FIRE APPARATUS ACCESS ROADS STANDARDS

Note: This guideline is a summary of Stockton Fire Department clarifications of City and State Codes. Information contained herein applies to typical circumstances and may not address all situations.

Fire Access Roadways

- Approved fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into. The fire apparatus access road shall comply with the requirements of section 503 and shall extend to within 150 feet of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by an approved route around the exterior of the building or facility.



- Where fire apparatus access roads or a water supply for fire protection are required to be installed, such protection shall be installed and made serviceable prior to and during the time of construction except where approved alternative methods of protection are provided.

General Access Road Requirements

- **Dimensions:** Fire apparatus access roads shall have an unobstructed width of not less than 20 feet and an unobstructed vertical clearance of not less than 13 feet 6 inches.
- **Surface:** Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus weighing up to 75,000 pounds and shall be surfaces so as to provide all-weather driving capabilities.
- **Turning Radius:** The required turning radius of a fire apparatus access roads shall comply with Appendix D of the CFC. Inside turning radius is between 25-30 ft and outside turning radius is between 40-50 ft upon approval by Stockton Fire Department.
- **Dead ends:** Dead-end fire apparatus access roads in excess of 150 ft shall be provided with an approved area for turning around fire apparatus per Appendix D of the CFC.
- **Marking:** Approved sign or other approved notices or marking that include the words "NO PARKING – FIRE LANE" shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. Signs shall have a minimum dimension of 12 inches wide by 18 inches high and have red letters on a white reflective background per Appendix D, Section D103.6.
- **Grade:** Fire apparatus access roads shall not exceed 10 percent in grade. Exception: Grades steeper than 10 percent as approved by fire code official.



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- **Building Under Construction or Demolition:** Approved vehicle access for firefighting shall be provided to all construction or demolition sites. Vehicle access shall be provided to within 100 feet of temporary or permanent fire department connections. Vehicle access shall be provided by either temporary or permanent roads, capable of supporting vehicle loading under all weather conditions. Vehicle access shall be maintained until permanent fire apparatus access roads are available.

Two or More Means of Access

Under the following circumstances the fire code official is authorized to require two separate and approved fire apparatus access roads placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the lot or area to be served, measured in a straight line between accesses.

- **Commercial and industrial developments** - Commercial and industrial developments shall have not fewer than two means of approved fire apparatus access roads where any of the following exist:
 - Buildings or facilities exceeding 30 feet or three stories in height.
 - Buildings or facilities having a gross building area of more than 62,000 square feet.
Exception: Projects having an area up to 124,000 square feet that have a single approved fire apparatus access road where all buildings are equipped throughout with approved automatic sprinkler systems.
- **Multiple-family residential developments** - Multiple-family residential projects shall be equipped throughout with two separate and approved fire apparatus access roads where any of the following exist:
 - Residential project having more than 100 dwelling units.
Exception: Projects having up to 200 dwelling units shall have not fewer than one approved fire apparatus access road where all buildings, including nonresidential occupancies, are equipped throughout with an approved automatic sprinkler systems installed in accordance with CFC Section 903.3.1.1 or 903.3.1.2
 - Residential project having more than 200 dwelling units regardless of whether they are equipped with an approved automatic sprinkler system.
- **One- or two-family residential developments:** Developments of one- or two-family dwellings where the number of dwelling units exceeds 30 shall be provided with two separate and approved fire apparatus access roads.

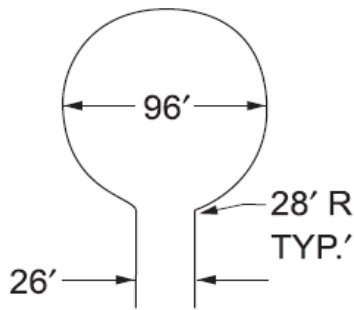
Exceptions:

1. Where there are more than 30 dwelling units on a single public or private fire apparatus access road and all dwelling units are equipped throughout with an approved automatic sprinkler system in accordance with CFC Section 903.3.1.1, 903.3.1.2 or 903.3.1.3, access from two directions shall not be required.
2. The number of dwelling units on a single fire apparatus access road shall not be increased unless fire apparatus access roads will connect with future development, as determined by the fire code official.

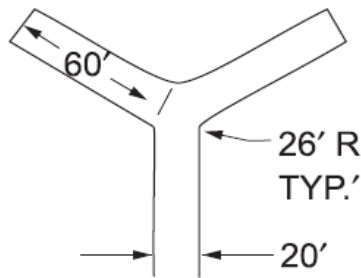


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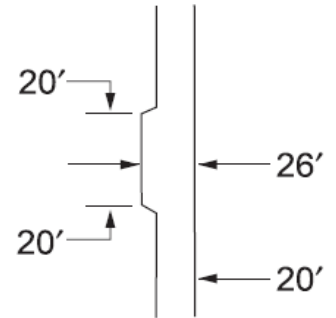
Appendix D: Figure D103.1 - Dead-end Fire Apparatus Access Road Turnaround



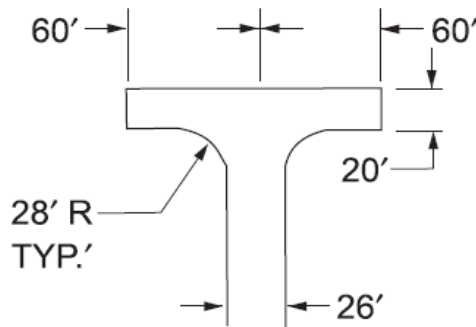
96' DIAMETER
CUL-DE-SAC



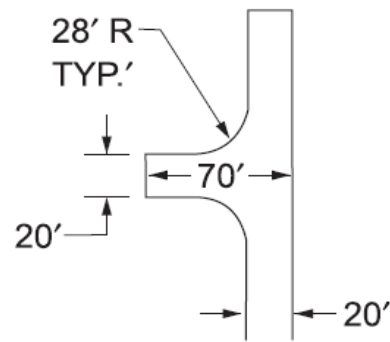
60-FOOT "Y"



MINIMUM CLEARANCE
AROUND A FIRE
HYDRANT



120' HAMMERHEAD



ACCEPTABLE ALTERNATIVE
TO 120' HAMMERHEAD

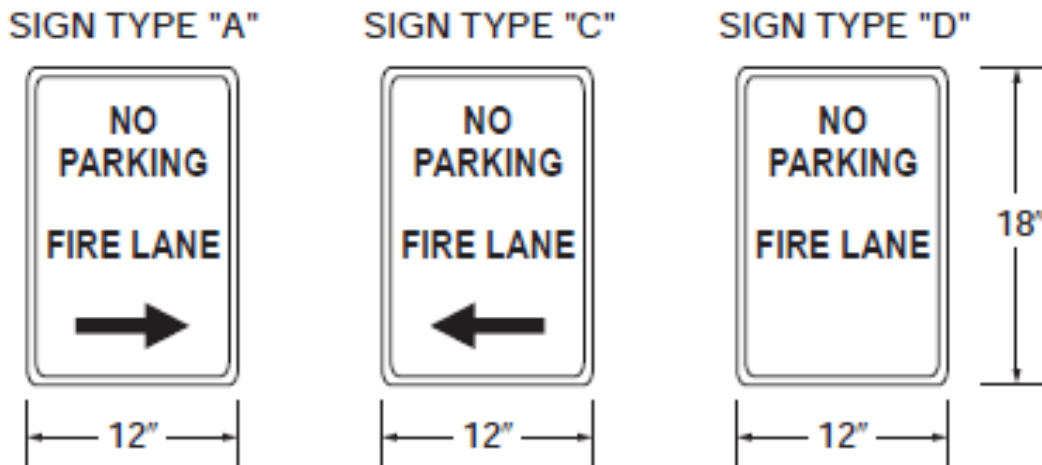
Appendix D: Table D103.4 - Requirements for Dead-End Fire Apparatus Access Roads

LENGTH (feet)	WIDTH (feet)	TURNAROUNDS REQUIRED
0-150	20	None required
151-500	20	120-foot Hammerhead, 60-foot "Y" or 96-foot-diameter cul-de-sac in accordance with Figure D103.1
501-750	26	120-foot Hammerhead, 60-foot "Y" or 96-foot-diameter cul-de-sac in accordance with Figure D103.1
Over 750		Special approval required



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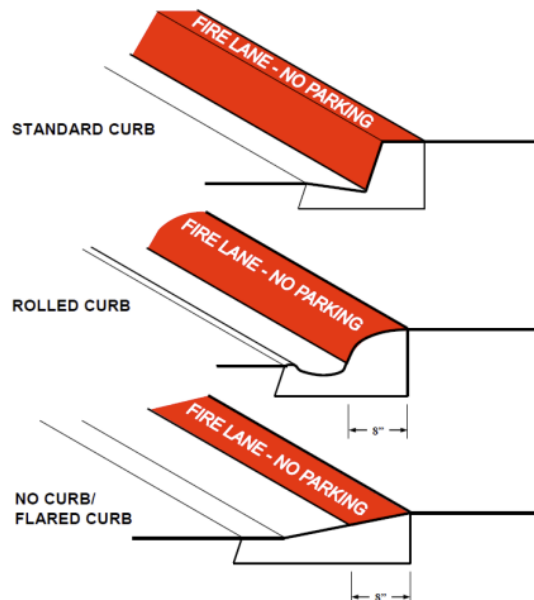
Appendix D: Figure D103.6 - Fire Lane Signs



Signage

- Signs are required within 3' of the end of the curb return at the beginning of each "block" along the fire lane and spaced a maximum of 50' along the entire designated lane. A sign shall be located within a reasonable distance of the end of each block as necessary to clearly identify the extent of the no parking zone. One sign is required for each island adjacent to the fire lane that is large enough to accommodate a parked car. Where signposts are not practical, signs may be mounted on a wall or fence and are allowed to be oriented perpendicular to the length of the fire lane
- "FIRE LANE – NO PARKING" shall be painted on top of curb in 3" white lettering at a spacing of 30' on center or portion thereof.

Fire Lane Identification – Red Curbs



Parking Restriction

Parking shall follow City Of Stockton's Standards.