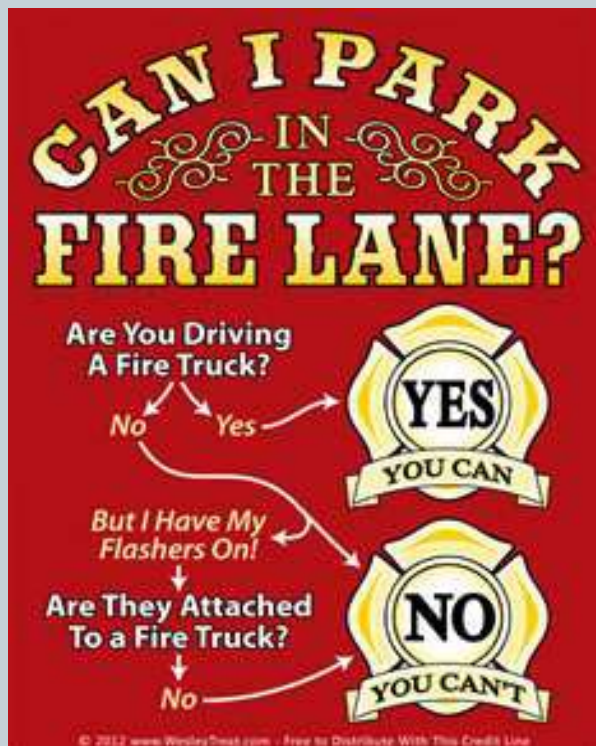




Springfield Fire Department



FIRE LANES

2012 INTERNATIONAL FIRE CODE REQUIREMENTS

Goal



- Where are fire apparatus access roads required?
 - What are the specific requirements?
 - How are they to be marked?
 - Why do we need standardized marking?



International Fire Code 2012



- **503.1.1 Buildings and Facilities** – Approved fire apparatus access roads shall be provided for every facility, building or portion of a building... The fire apparatus access road 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.



International Fire Code 2012



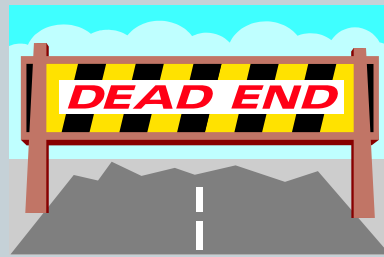
- **503.2.1 Dimensions** - Fire apparatus access roads shall have an unobstructed width of not less than 20 feet, exclusive of shoulders...
- **D103.1 Access road width with a hydrant** – Where a fire hydrant is located on a fire apparatus access road, the minimum road width shall be 26 feet, exclusive of shoulders.
- **D105 Aerial Apparatus access** - ...where a building exceed 30' in height, an approved aerial apparatus access lane shall be provided. The lane shall have a minimum unobstructed width of 26' in the immediate vicinity of the building. At least one aerial apparatus access lane shall be located within a minimum of 15' and a maximum of 30' from the building, parallel to one entire side of the building.



International Fire Code 2012



- **503.2.4 Turning radius** – The required minimum turning radius of a fire apparatus access road shall be 28' (inside).
- **503.2.5 Dead Ends** - Dead-end fire apparatus access roads in excess of 150 feet in length shall be provided with an approved area for turning around the fire apparatus (see table appendix D103.4)



International Fire Code 2012



- **503.3 Marking** – The following methods shall be used and shall include the words **NO PARKING-FIRE LANE** and shall be provided for fire apparatus access roads to identify such roads or prohibit obstruction thereof. A 4” **red** stripe shall be applied on each side of the fire apparatus access road and shall be applied along the entire length of the fire apparatus access road. If one of both sides of the access road are enclosed by a curb then the curb shall be marked in **red**.



International Fire Code 2012



- **503.3 Marking (continued)**- Additionally the words “**NO PARKING-FIRE LANE**” shall be stenciled in letters no less than 12” high with a width of 2” inside of the fire apparatus access road every 50’ along the entire length of the fire apparatus road. The means by which fire lanes are designated shall be maintained in a clean and legible condition at all times and be replaced or repaired when necessary to provide adequate visibility. Alternative markings and/or marking methods may be approved by the Fire Chief or his/her designee.
- **503.3.1 When required.** All new construction, change of occupancy classification, and when required by the Fire Code Official.



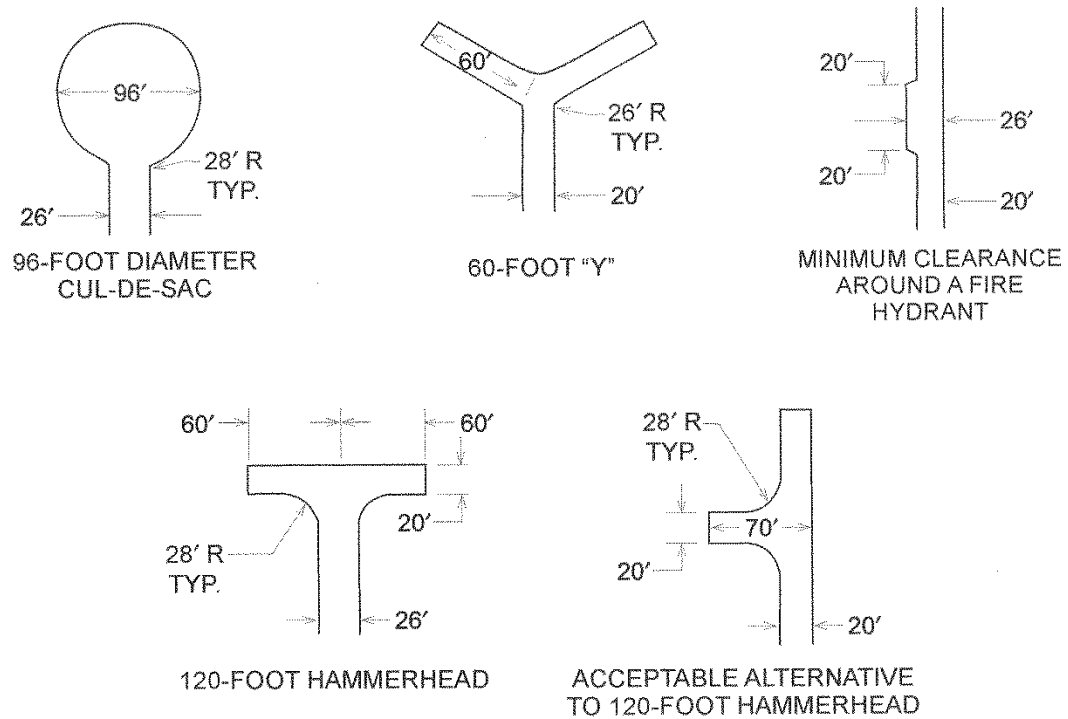
“Where required by the Fire Code Official”



- Actual experience – Observed by Fire Department or citizen complaint corroborated by Fire Department
- High risk occupancies such as bars/nightclubs, nursing homes, fraternities/sororities
- Historical issues with an occupancy type such as retail and hospitals
- Upon request of property owner



Dead-end fire apparatus access roads in excess of 150 feet in length shall be provided with an approved fire apparatus turn around.
(IFC 503.2.5)



For SI: 1 foot = 304.8 mm.

FIGURE D103.1
DEAD-END FIRE APPARATUS ACCESS ROAD TURNAROUND

International Fire Code 2012



- **D103.6 Signs**— Fire apparatus access roads shall be marked with permanent **NO PARKING-FIRE LANE** signage as required in section 503.3. If signs are required as per section D103.6.3, the signs shall comply with figure D103.6. Signs shall have a minimum dimension of 12” wide by 18” high and have red letters on a white reflective background. Signs shall be posted as required by section D103.6.3



International Fire Code 2012



- **D103.6.3 Grass pavers** – Fire apparatus access roads that utilize grass pavers shall be marked with signs as specified in section D103.6 and approved by the fire code official, signs shall be posted on both sides of the fire lane where it exits impervious pavement and shall be marked in an approved manner along the length of the grass fire lane until it enters back on to impervious pavement. Marking must meet the following criteria:
 - 1) Must be reflective so the route is readily visible at night
 - 2) The marking system must be visible above the allowable 12" vegetation growth height
 - 3) The approved marking system must be placed on both sides of the FD access route at minimum intervals of 20'
 - 4) If a continuous curb type marking system is installed, then the curb would be allowed to be less than 12" in height. The curb must be maintained so it is visible at all times.



Why are they needed?





Red Curb Marked With
"No Parking"



