



FIRE ACCESS ROAD/FIRE LANE LAYOUT PLAN

Applicant shall include a sheet in civil submittal as well as Fire Code submittal titled “**FIRE ACCESS ROAD/FIRE LANE LAYOUT PLAN**”. This plan shall include the following:

- a. Location of the building on the site along with the length, width and height of building.
- b. Street locations.
- c. Private drives and any gates or barriers to traffic.
- d. Sidewalks and parking rows.
- e. Fire Department Connections and nearest public fire hydrants as well as hydrants on private property. **(Hydrants and Fire Department connections should be highlighted)**
- f. Show overhead structural extensions or obstructions that could affect **Fire Lane** placement.
- g. Show proposed fire department **Access Roads/Fire Lanes**, parking lot /curb striping or sign placements*
(Cross hatch or otherwise distinguish fire access roads on plans.)
- h. All above should show size and relative distances from one another.

Striping – Fire apparatus access roads shall be continuously marked by painted lines of red traffic paint 6 inches (152 mm) in width to show the boundaries of the lane. The words “NO PARKING FIRE LANE” or “FIRE LANE NO PARKING” shall appear in 4 inch (101.6 mm) white letters at 25 feet (7 62 mm) intervals on the red border markings along both sides of the fire lanes. Where a curb is available, the striping shall be on the vertical face of the curb.

Signs – Signs shall read “NO PARKING FIRE LANE” or “FIRE LANE NO PARKING” and shall be 12 inches (304.8 mm) wide and 18 inches (457.2 mm) high. Signs shall be painted on a white background with letters and borders in red, using not less than 2 inch (50.8 mm) lettering. Signs shall be permanently affixed to a stationary post and the bottom of the sign shall be six feet, six inches (2 01168 mm) above finished grade. Signs shall be spaced not more than 50 feet (15 24 mm) apart along both sides of the fire lane. Signs may be installed on permanent buildings or walls or as approved by the fire code official.

Any color other than red may be used in “**NO PARKING**” areas that are not approved Fire Lanes. **RED** colored curbs, pavement striping or wheel stops shall be used only to designate approved Fire Lanes.

Approved fire lanes SHALL be in place and marked before vertical construction can begin.



GENERAL REQUIREMENTS

Denton County Amendments Section 3310: Access for Fire Fighting

SECTION 3310 ACCESS FOR FIRE FIGHTING

3310.1 Required access.

Approved vehicle access for firefighting shall be provided to all construction or demolition sites. Vehicle access shall be provided to within 100 feet (30 480 mm) 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.

When fire apparatus access roads are required to be installed for any structure or development, they shall be approved prior to the time at which construction has progressed beyond completion of the foundation of any structure.

Denton County Amendments Section 503: Fire Apparatus Access Roads

503.1.1 Building and Facilities.

Approved fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access road shall comply with the requirements of this section and shall extend to within 150 feet (45 720 mm) 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. Except for one- or two-family dwellings, the path of measurement shall be along a minimum of a 10 feet (3 048 mm) wide unobstructed pathway around the external walls of the structure.

Exceptions:

1. The fire code official is authorized to increase the dimension of 150 feet (45 720 mm) where any of the following conditions occur:
 - 1.1. The building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3.
 - 1.2. Fire apparatus access roads cannot be installed because of location on property, topography, waterways, nonnegotiable grades or other similar conditions, and an approved alternative means of fire protection is provided.



1.3. There are not more than two Group R-3 or Group U occupancies.

2. Where approved by the fire code official, fire apparatus access roads shall be permitted to be exempted or modified for solar photovoltaic power generation facilities. Allow the nearest access possible to the main entrance of the building.

503.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 24 feet (7 315 mm), exclusive of shoulders, except for approved security gates in accordance with Section 503.6, and an unobstructed vertical clearance of not less than 14 feet (4 267 mm).

1. Have a minimum interior turning radius of thirty (30) feet and exterior turning radius of fifty (50) feet.
2. When dead-end in excess of one hundred-fifty (150) feet in length, provide an area for turning around the fire apparatus. (Ref. IFC 2015 Appendix D Figure D103.1)

Exception: Vertical clearance may be reduced; provided such reduction does not impair access by fire apparatus and approved signs are installed and maintained indicating the established vertical clearance when approved.

503.2.2 Authority. The fire code official shall have the authority to require an increase in the minimum access widths and vertical clearances where they are inadequate for fire or rescue operations.

503.2.3 Surface. Fire apparatus access roads shall be designed and maintained to support imposed loads of 80,000 lbs for fire apparatus and shall be surfaced so as to provide all-weather driving capabilities.



REQUIREMENTS FOR LARGE AREA BUILDINGS

Buildings exceeding three stories or 30 feet in height shall:

1. Have at least two means of fire apparatus access for each structure.

Buildings exceeding sixty-two thousand (62,000) square feet in area shall:

1. Be provided with two separate and approved fire apparatus access roads.

Exception: Projects having a gross building area of up to one hundred and twenty four thousand (124,000) square feet that have a single approved fire apparatus access road when all buildings are equipped throughout with an approved automatic sprinkler system.

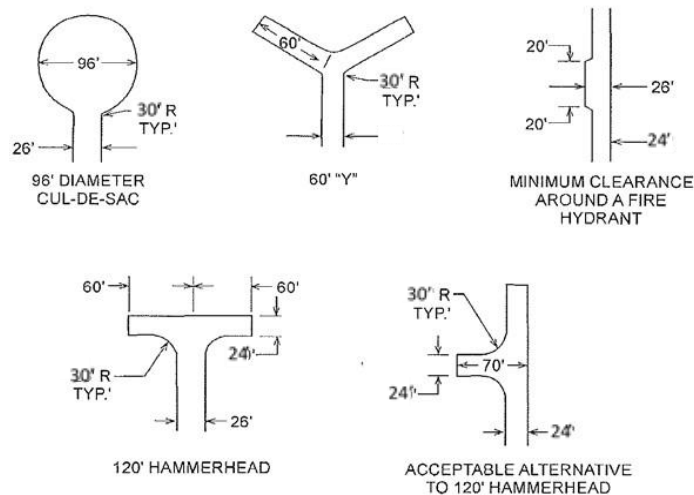
Where two fire apparatus access roads are required, they shall be placed a distance apart equal to not less than one half of the length of the maximum overall diagonal dimension for the property or area to be served, measured in a straight line between accesses.



**TABLE D103.4
REQUIREMENTS FOR DEAD-END FIRE
APPARATUS ACCESS ROADS**

LENGTH (feet)	WIDTH (feet)	TURNAROUNDS REQUIRED
0-150	24	None required
151-500	24	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

For SI: 1 foot = 304.8 mm.



For SI: 1 foot = 304.8 mm.

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