

PROTECTION OF EQUIPMENT FROM VEHICULAR DAMAGE

October, 2013

COLORADO SPRINGS FIRE DEPARTMENT **Division of the Fire Marshal**



If you have any questions or comments regarding the information contained within, or if you need assistance interpreting these requirements, please contact:

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Scope

This document applies to all fire hydrants and fire department connections; aboveground flammable and combustible liquid storage tanks, vaults, electrical conduit and fuel dispensing systems; compressed gas storage tanks and dispensing systems; liquefied petroleum gas storage tanks and dispensing systems; aboveground gas meters, regulators and piping; that are subject to vehicular damage and required to be protected by the adopted fire code. (2009 IFC-Section 312)

Purpose

The purpose of this document is to provide design and installation requirements based on the fire code, to adequately protect vulnerable equipment from vehicular damage.

Posts

Guard posts shall comply with all of the following requirements (See graphics on page 3 for examples):

- Constructed of steel not less than 4 inches (102mm) in diameter and concrete filled
- Spaced not more than 4 feet between posts on center
- Set not less than 3 feet (914mm) deep in a concrete footing of not less than 15-inch (381mm) in diameter.
- Set with top of the posts not less than 3 feet above ground
- Located not less than 3 feet from the protected object

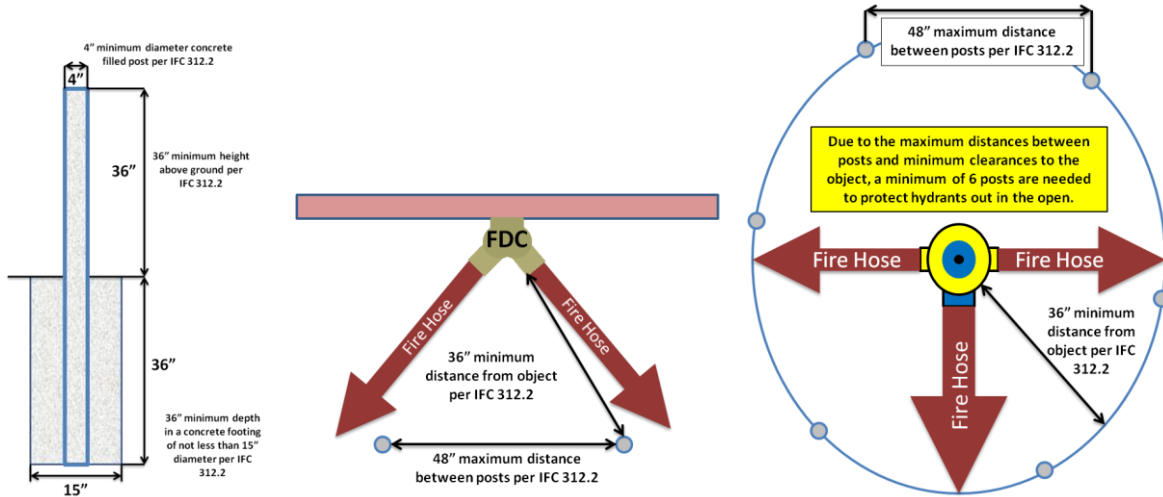
Other Barriers

Physical barriers shall be a minimum of 36 inches (914mm) in height and shall resist a force of 12,000 pounds (53,375N) applied 36 inches (914mm) above the adjacent ground surface.

Care should be taken to ensure that posts or other barriers used to protect equipment are not installed in such a way that will restrict access to the equipment. An example of this is to ensure posts or other barriers are not in line with hydrant outlets as the posts/barriers may restrict hydrant valve access of the hose (when charged with water).

Illustrations

Guard Posts



Other Barriers

