


<b>TECHNICAL BULLETIN</b> <b>CITY OF RALEIGH, N.C.</b> <a href="http://www.raleighnc.gov">www.raleighnc.gov</a>				<b>OFFICE OF THE FIRE MARSHAL</b>	
Subject	Bulletin #	SECTION	PAGE	EFFECTIVE DATE	
<b>Signage for Fire Protection systems</b>	TB-5	NCFPC	1 of 5	7/1/2006	
		PREPARED BY Office of the Fire Marshal			Revision Date 06/01/2019

1.0 **Purpose**

The purpose of this document is to provide for uniform marking of fire sprinkler controls, fire department connections, fire department hose valves, fire alarm control panels, fire command rooms, fire alarm rooms, storage occupancy classification, and fire sprinkler rooms.

2.0 **Organization(s) Affected**

Raleigh Fire Department (Office of Fire Marshal), Building, Contractors, Fire Sprinkler Contractors, and Fire Alarm Contractors.

2.0 **References**

Current adopted edition NFPA 13, NFPA 72, NCFPC, and Manual for Traffic Control Devices (MUTCD).

5.0 **Requirements**

- 5.1 All sprinkler control, drain, and test connection valves shall be provided with permanently marked weatherproof metal or rigid plastic identification signs. Minimum size for control, drain and test connection signs is 2 inch by 6 inch.
- 5.2 All Identification signs in parking decks or on the exterior of building shall be weatherproof metal signs.
- 5.3 All identification signs shall be secured with corrosion-resistant screws, wire, chain, or other approved means.
- 5.4 System control valve sign shall identify the portion of the building served. Minimum size of system control valve signs is 9 inch by 7 inch.
- 5.5 Fire Department Hose Valves for all manual standpipe systems shall be identified at each valve “Manual Wet Standpipe” or “Manual Dry Standpipe”. Minimum size is 2 inch by 6 inch.

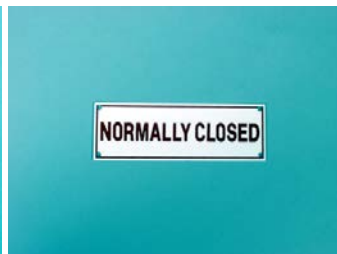
- 5.6 Fire Department Connections (Storz, or Siamese) shall be identified with a metal sign with raised letters at least 1 inch in size. Signs shall read: AUTOMATIC SPRINKLERS, STANDPIPES, TEST CONNECTION, or a combination thereof as applicable.
- 5.7 Fire Department Connections that serve buildings where the design pressure of the system requires in excess of 150 psi shall be identified with an approved metal sign with letters at least 2 inches in size. Signs shall read: AUTOMATIC SPRINKLERS, STANDPIPES, \*\*\* PSI REQUIRED, combination thereof as applicable.
- 5.8 Buildings which have multiple FDC's installed shall have an approved metal sign at each FDC identifying the area of building that each FDC serves. Sign shall be of an approved size with letters 2 inch high. (One FDC per building unless approved by RFD).
- 5.9 FDC signs shall be visible from the street to approaching fire apparatus, check letter size distance visibility chart for proper size letters (pg. 4). Signs shall be of an approved size and material with the letters "FDC" 6 inch high letters minimum or "FIRE DEPARTMENT CONNECTION" 2 inch high letters minimum. Signs shall be a retro-reflective Red background with retro-reflective white lettering. Sign and lettering shall be of a contrasting color to the building. In cases where the building is Red in exterior finish, contact the fire official.
- 5.10 Fire Department Connection location shall be identified with an approved sign. Sign shall be installed in an approved location 8 feet above grade minimum. (sign required to be installed above vehicles that may obstruct view of the sign from responding fire apparatus).
- 5.11 Free-standing Fire Department Connections shall be identified with an approved sign mounted on a post. Sign shall be installed 7' minimum to bottom of sign.
- 5.12 Approved Fire Department sign shall conform to Manual for Traffic Control Devices (MUTCD) requirements for Regulatory signs. 18" width, 12" height, 1.5" radius edges, and 0.080 aluminum materials. Sign background to be Red retro-reflective material with White retro-reflective letters.
- 5.13 Fire alarm, fire sprinkler, and fire command rooms shall be identified on exterior doors with lettering of contrasting color of 4 inches in height minimum . "FIRE ALARM CONTROL ROOM", "FIRE SPRINKLER RISER ROOM", "FIRE COMMAND ROOM."
- 5.14 Fire alarm, fire sprinkler, and fire command rooms with interior doors shall be identified with signage complying with North Carolina Accessibility Code. (1 inch lettering, Contrasting color, Raised Lettering, Braille). Room shall be identified "FIRE ALARM CONTROL ROOM", "FIRE SPRINKLER RISER ROOM", or "FIRE COMMAND ROOM" as appropriate.
- 5.15 Water flow alarm bells or horn/strobes shall be identified with a permanent metal sign "SPRINKLER FIRE ALARM- WHEN BELL RINGS CALL FIRE DEPARTMENT."

5.16 Multi story buildings 4 stories or greater have additional signage requirements located in Technical Bulletin 13.

6.0 **Goal:**

The goal of this requirement is to provide uniform marking of all fire protection systems preventing confusion and delay in locating the proper equipment room, control valve, system drain, etc.

Examples:





This system as shown on ..... company  
 print no ..... dated .....  
 for .....  
 at ..... contract no .....  
 is designed to discharge at a rate of ..... gpm/ft<sup>2</sup>  
 (L/min/m<sup>2</sup>) of floor area over a maximum area of .....  
 ft<sup>2</sup> (m<sup>2</sup>) when supplied with water at a rate of .....  
 gpm (L/min) at ..... psi (bar) at the base of the riser.  
 Hose stream allowance of ..... gpm (L/min)  
 is included in the above.  
 Occupancy classification .....  
 Commodity classification .....  
 Maximum storage height .....

**F D C**

**F D C**  
**250 PSI REQUIRED**

**F D C**  
**3701-3757**

**F D C**  
**3701-H CAPITAL**



**LETTER VISIBILITY CHART**

READABLE DISTANCE FOR MAXIMUM IMPACT	LETTER HEIGHT
30'	3"
40'	4"
60'	6"
80'	8"
90'	9"
100'	10"
120'	12"
150'	15"
180'	18"
240'	24"
300'	30"
360'	36"
420'	42"
480'	48"
540'	54"
600'	60"