***** DO NOT MAIL THIS FORM*****

Department of
Licenses and Inspections
CITY OF PHILADELPHIA

Upload completed forms to Fire Suppression Permit through eCLIPSE system, eclipse.phila.gov

Contractor's Material and Test Certificate for Underground Piping

Use this form to provide results and certify the underground piping testing performed. Submit one certification for each system.

Check which type of inspection completed: ☐ **NFPA 13** ☐ **NFPA 13R**

Permit Information — **1**

Address: _____ Building/Suite: _____

Permit No.: _____

Building Owner / Owner's Agent — **2**

Provide the contact information for the building owner/owner's agent

Name: _____

Address: _____

Email: Phone:

Contractor Information — **3**

Individual performing inspection and tests shall possess a valid FSSW license.

(a) Fire Suppression Systems (FSS) Contractor Information

Contractor Name: _____ FSS Contractor License #: _____

Email: _____ Phone: _____

(b) Fire Suppression Systems Worker (FSSW) Information

FSSW Name: _____ FSSW License #: _____

Plans and Instructions — **4**

Installation conforms to accepted plans: ☐ Yes Equipment used is approved: ☐ Yes

Has owner or owner's agent been instructed as to location of control valves and care and maintenance of this new equipment? ☐ Yes

Have copies of appropriate instructions and care and maintenance charts been left on premises? ☐ Yes

Underground pipes and joints — **5**

Pipe types and class: _____ Joint type: _____

Pipe conforms to: _____ standard ☐ Yes

Fittings conform to: _____ standard ☐ Yes

Joints needing anchorage clamped, strapped, or blocked in accordance with _____ standard ☐ Yes

Test description — **6**

Flushing: Flow the required rate until clear as indicated by no collection of foreign material in burlap bags at outlet such as hydrants and blow-offs. Flush in accordance with requirements of NFPA 13 Table 10.10.2.1.3

Hydrostatic: All piping and attached appurtenances subjected to system working pressure shall be hydrostatically tested at 200 psi (13.8 bar) or 50 psi (3.4 bar) in excess of the system working pressure, whichever is greater, and shall maintain that pressure +/- 5 psi (0.34 bar) for 2 hours.

Hydrostatic Testing Allowance: Where additional water is added to the system to maintain the test pressures required by NFPA 13 10.10.2.2.1 the amount of water shall be measured and shall not exceed the limits of Table 10.10.2.2.6, which are based upon the following equation

$$L = \frac{SD\sqrt{P}}{148.000}$$

L = testing allowance (makeup water), in gallons per hour
S = length of pipe tested, in feet
D = nominal diameter of pipe, in inches
P = average test pressure during the hydrostatic test, in pounds per square feet (gauge)

***** DO NOT MAIL THIS FORM*****

Department of
Licenses and Inspections
CITY OF PHILADELPHIA

Tests:

A) Flushing test

B) Hydrostatic test

C) Leakage test

D) Forward flow test of backflow preventer

7

SECTIONS B-D shall not apply to underground mains serving systems installed in accordance with NFPA 13R with a diameter less than 4".

A) FLUSHING TEST:

New underground piping flushed according to _____ standard BY (company): _____

How flushing flow was obtained: ☐ Public water ☐ Tank / Reservoir ☐ Fire pump

Through what type of opening: ☐ Hydrant butt ☐ Open pipe

Lead-ins flushed according to _____ standard BY (company): _____

How flushing was obtained: ☐ Public water ☐ Tank / Reservoir ☐ Fire pump

Through what type of opening: ☐ Y connection to flange and spigot ☐ Open pipe

B) HYDROSTATIC TEST:

All new underground piping hydrostatically tested at: _____ psi for _____ hours

Joint covered: ☐ Yes

C) LEAKAGE TEST:

Total amount of leakage measured: _____ gallons for _____ hours

Allowable leakage: _____ gallons for _____ hours

D) FORWARD FLOW TEST OF BACKFLOW PREVENTER:

Forward flow test performed in accordance with NFPA 13 10.10.2.5.2: ☐ Yes

Hydrants & Control Valves

8

Number of hydrants installed: _____ Type and make _____

All operate satisfactorily: ☐ Yes
Water control valves left wide open: ☐ Yes

Hose threads of fire department connections and hydrants interchangeable with those of fire department answering alarm: ☐ Yes

Date of Certification

9

Date certified: _____

Additional explanation and notes

10

_____

_____

_____

Declaration & Signatures

By accepting this statement, I, the certified technician shown on this form, certify that this fire protection system(s) has been properly inspected for functional operation in accordance with the current NFPA standards for this system. The certification must be presented by the Contractor to the building owner/owner's agent upon completion and shall be uploaded to the Fire Suppression Permit.

Signature of Contractor: _____ Date: _____

Signature of Property Owner / Owners Agent: _____ Date: _____