*** DO NOT MAIL THIS FORM***

Department of
Licenses and Inspections
CITY OF PHILADELPHIA

Upload completed forms online using eCLIPSE.

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.

NOTE: Sections 6 and 7(B) thru (D) are NOT APPLICABLE for 4 inch or less underground pipes serving NFPA 13R and 13D systems ONLY.

Check which type of inspection completed:

☐ **NFPA 13** ☐ **NFPA 13R** ☐ **NFPA 13D**

Permit Information — **1**

Address: _____

Permit No.: _____ Date of Inspection: _____

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

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

Name: _____

Address: _____

Email: _____ Phone: _____

Contractor and Inspector Information — **3**

(a) The FSS contractor must provide their contact information and license number.

(b) The inspector must provide their name and FSSW license number.

(a) Fire Suppression Systems Contractor Information

Contractor Name: _____ Contractor License #: _____

Email: _____ Phone: _____

(b) Inspector Information (Testing must be performed by a licensed Fire Suppression Systems Worker)

Inspector Name: _____

Fire Suppression System Worker License #: _____

Instructions and Location — **4**

Installation conforms to accepted plans: ☐ Yes ☐ No Equipment used is approved: ☐ Yes ☐ No

If no, state deviations: _____

Has person in charge of fire equipment been instructed as to location of control valves and care and maintenance of this new equipment? ☐ Yes ☐ No

If no, explain: _____

Have copies of appropriate instructions and care and maintenance charts been left on premises? ☐ Yes ☐ No

If no, explain: _____

Supplies buildings: _____

Underground pipes and joints — **5**

Pipe types and class: _____ Joint type: _____

Pipe conforms to: _____ standard ☐ Yes ☐ No Fittings conform to: _____ standard ☐ Yes ☐ No

If no, explain: _____

Joints needing anchorage clamped, strapped, or blocked in accordance with _____ standard ☐ Yes ☐ No

If no, explain: _____

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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 Table 10.10.2.1.3 - 2016 - NFPA 13.

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.

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

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)

Tests:

A) Flushing test

B) Hydrostatic test

C) Leakage test

D) Forward flow test of backflow preventer

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A) FLUSHING TEST:

New underground piping flushed according to _____ standard by (company): ☐ Yes ☐ No

If no, explain: _____

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): ☐ Yes ☐ No

If no, explain: _____

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 ☐ No

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 10.10.2.5.2 – 2016 - NFPA 13: ☐ Yes ☐ No

Hydrants & Control Valves

8

Number of hydrants installed: _____ Type and make _____

All operate satisfactorily: ☐ Yes ☐ No Water control valves left wide open: ☐ Yes ☐ No

Hose threads of fire department connections and hydrants interchangeable with those of fire department answering alarm: ☐ Yes ☐ No

Remarks

9

Date left in service: _____

Additional explanation and notes

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_____

_____

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 Building Permit.

Signature of Inspector: _____ Date: _____

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