Contractor's Material and Test Certificate for Underground Piping

A. Procedure (Conforms to NFPA 13-1994 and NFPA 24-1995)

Upon completion of work, inspection and tests shall be made by the contractor's representative and witnessed by an owner's representative. All defects shall be corrected and system left in service before contractor's personnel finally leave the job. A certificate shall be filled out and signed by both representatives. Copies shall be prepared for approving authorities, owners, and contractor. It is understood the owner's representative's signature in no way prejudices any claim against contractor for faulty material, poor workmanship, or failure to comply with approving authority's requirements or local ordinances. All "No" answers shall be explained in the Comments portion of this form.

Property Name: _____

Property Address: _____

Date: _____

B. Plans

1. Accepted by Approving Authorities (Names): _____

_____

2. Address: _____

3. Installation conforms to accepted plans ❑ Yes ❑ No

4. Equipment used is approved ❑ Yes ❑ No

C. Instructions

1. 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

2. Have copies of appropriate instructions and care and maintenance charts been left on premises ❑ Yes ❑ No

D. Location

System supplies buildings: _____

E. Underground Pipes and Joints

1. Pipe types and class: _____

2. Joint type(s): _____

3. Pipe conforms to _____ Standard ❑ Yes ❑ No

4. Fittings conform to _____ Standard ❑ Yes ❑ No

5. Joints needing anchorage clamped, strapped or blocked in accordance with _____ Standard ❑ Yes ❑ No

F. Test Description

Flushing: Flow the required rate until water is clear as indicated by no collection of foreign material in burlap bags at outlets such as hydrants and blow-offs. Flush at flows not less than 390 GPM (1476L/min) for 4-inch pipe, 880 GPM (3331 L/min) for 6-inch pipe, 1560 GPM (5905 L/min) for 8-inch pipe, 2440 GPM (9235 L/min) for 10 inch pipe, and 3520 GPM (13323 L/min) for 12-inch pipe. When supply cannot produce stipulated flow rates, obtain maximum available.

Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi (13.8 bars) for two hours or 50 psi (3.4 bars) above static pressure in excess of 150 psi (10.3 bars) for two hours.

Leakage: New pipe laid with rubber gasketed joints shall, if the workmanship is satisfactory, have little or no leakage at the joints. The amount of leakage at the joints shall not exceed 2 qts. per hr. (1.89 L/h) per 100 joints irrespective of pipe diameter. The leakage shall be distributed over all joints. If such leakage occurs at a few joints the installation shall be considered unsatisfactory and necessary repairs made. The amount of allowable leakage specified above may be increased by 1 fl oz per in. valve diameter per hr. (30 mL/25 mm/h) for each metal seated valve isolating the test section. If dry barrel hydrants are tested with the main valve open, so the hydrants are under pressure, an additional 5 oz per minute (150 mL/min) leakage is permitted for each hydrant.

G. Flushing Tests

1. New underground piping flushed according to _____ Standard ❑ Yes ❑ No

2. Flushing conducted by (Company):

_____

3. Flushing flow obtained from:
   ❑ Public water ❑ Tank or reservoir ❑ Fire pump

4. Type of opening: ❑ Hydrant butt ❑ Open pipe

5. Lead-ins flushed according to _____ Standard ❑ Yes ❑ No

6. Lead-ins flushed by (Company)

_____

7. How flushing flow for lead-ins was obtained:
   ❑ Public water ❑ Tank or reservoir ❑ Fire pump

8. Type of opening: ❑Y conn. to flange and spigot ❑Open pipe

H. Hydrostatic Tests

1. All new underground piping hydrostatically tested at _____ psi for _____ hours

2. Joints covered ❑ Yes ❑ No

I. Leakage Test

1. Total amount of leakage measured _____ Gal. _____ Hours

2. Allowable Leakage _____ Gal. _____ Hours

J. Hydrants

1. Number installed: _____

2. Type and make: _____

3. All operate satisfactorily ❑ Yes ❑ No

4. Hose threads of fire department connections and hydrants interchangeable with those of fire department answering alarm ❑ Yes ❑ No

K. Control Valves - Valves left wide open ❑ Yes ❑ No

L. Remarks - Date left in service: _____

M. Signatures - Tests witnessed by:

1. For property owner (Signed): _____
   Title: _____ Date: _____

2. For installing contractor (Signed): _____
   Title: _____ Date: _____

3. Company name of installing contractor: _____

N. Comments (This section is for additional explanation and notes. All "No" answers on this form must be explained here)

_____

_____

_____

_____

_____

_____

_____

_____

_____

❑ Check here if comments continue on reverse side of this form

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