



SPRINKLER SYSTEM
MATERIAL AND TEST CERTIFICATE
FOR UNDERGROUND PIPING
CITY OF WAYNESBORO, BUILDING & ZONING DEPARTMENT

PROCEDURE

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.

A.) PROPERTY INFORMATION:

Name and Description of Property: _____

Address: _____

Name of property representative: _____

Address: _____

Phone #: _____ Fax #: _____

E-mail Address: _____

B.) PLANS:

Accepted by approving authorities (names): _____

Address: _____

Phone #: _____ Fax #: _____

E-mail Address: _____

Installation conforms to accepted plans? [] Yes [] No

Equipment used is approved? [] Yes [] No If no, explain deviations: _____

C.) INSTRUCTIONS:

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 the appropriate instructions and care and maintenance charts been left on premises? [] Yes [] No

If no, explain: _____

D.) UNDERGROUND PIPES AND JOINTS:

Pipe types and class: _____

Type joint: _____

Pipe conforms to _____ standard Yes No

Fitting conforms to _____ standard Yes No

If no, explain: _____

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

If no, explain: _____

E.) 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 (1476 L/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 (13,323 L/min) for 12 inch pipe. When supply cannot produce stipulated flow rates, obtain maximum available.

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 for 2 hours.

Hydrostatic Testing Allowance: Where additional water is added to the system to maintain the test pressures required by 10.10.2.2.1, the amount of water shall be measured and shall not exceed the limits of the following equation: (for metric equation, see 10.10.2.2.4)

$$L = \frac{SD\sqrt{P}}{148,000}$$

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

F.) FLUSHING TESTS:

New underground piping flushed according to _____ standard

By _____ (company) Yes No

If no, explain: _____

How flushing flow was obtained: Public water Tank or reservoir Fire pump

Through what type opening? Hydrant butt Open pipe

Lead-ins flushed according to _____ standard

By _____ (company) Yes No

If no, explain: _____

How flushing flow was obtained: Public water Tank or reservoir Fire pump

Through what type opening? Open pipe Y connection to flange and spigot

G.) HYDROSTATIC TEST:

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

Joints covered? Yes No

H.) LEAKAGE TEST:

Total amount of leakage measured: _____ gallons for _____ hours.

Allowable leakage: _____ gallons for _____ hours.

I.) HYDRANTS:

Number installed: _____ Type and make: _____

All operate satisfactorily? Yes No

J.) CONTROL VALVES:

Water control valves left wide open? Yes No If no, explain: _____

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

K.) REMARKS:

Date left in service: _____

Comments and notes: _____

L.) SIGNATURES:

Installing contractor: _____ Date _____

Tests witnessed by: _____ Title _____ Date _____
For property owner (signature)

Tests witnessed by: _____ Title _____ Date _____
For installing contractor (signature)