

# CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR NDERGROUND PIPING

**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.

PROPERTY NAME	Date
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PROPERTY ADDRESS

<b>PLANS</b>	ACCEPTED BY APPROVING AUTHORITY(S) NAMES
	ADDRESS
	INSTALLATION CONFORMS TO ACCEPTED PLANS <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span> EQUIPMENT USED IS APPROVED <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span> IF NO, EXPLAIN DEVIATIONS

<b>INSTRUCTIONS</b>	HAS PERSON IN CHARGE OF FIRE EQUIPMENT BEEN INSTRUCTED AS TO LOCATION OF CONTROL VALVES AND CARE AND MAINTENANCE OF THIS NEW EQUIPMENT? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span> IF NO, EXPLAIN
	HAVE COPIES OF APPROPRIATE INSTRUCTIONS AND CARE AND MAINTENANCE CHARTS BEEN LEFT ON THE PREMISES? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span> IF NO, EXPLAIN <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span>

**LOCATION** SUPPLIES BUILDING:

<b>UNDERGROUND PIPES AND JOINTS</b>	PIPE TYPES AND CLASS	TYPE JOINT
	PIPE CONFORMS TO NFPA-24 STANDARD <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span> FITTINGS CONFORM TO NFPA-24 STANDARD <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span> IF NO, EXPLAIN	
	JOINTS NEEDING ANCHORAGE CLAMPED, STRAPPED, OR BLOCKED IN ACCORDANCE WITH NFPA-24 STANDARD <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span> IF NO, EXPLAIN	

**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 (13323 L/min) for 12-inch pipe. When supply cannot produce stipulated flow rates, obtain maximum available.

HYDROSTATIC. Hydrostatic tests shall be made 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 f. 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.

<b>FLUSHING TESTS</b>	NEW UNDERGROUND PIPING FLUSHED ACCORDING TO NFPA-24 STANDARD <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span> BY (COMPANY) _____ IF NO, EXPLAIN	
	HOW FLUSHING FLOW WAS OBTAINED <input type="checkbox"/> PUBLIC WATER <input type="checkbox"/> TANK OR RESERVOIR <input type="checkbox"/> FIRE PUMP	THROUGH WHAT TYPE OPENING <input type="checkbox"/> HYDRANT BUTT <input type="checkbox"/> OPEN PIPE
	LEAD-INS FLUSHED ACCORDING TO NFPA-24 STANDARD <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span> BY (COMPANY) _____ IF NO, EXPLAIN	
	HOW FLUSHING WAS OBTAINED <input type="checkbox"/> PUBLIC WATER <input type="checkbox"/> TANK OR RESERVOIR <input type="checkbox"/> FIRE PUMP	THROUGH WHAT TYPE OPENING <input type="checkbox"/> Y CONN. TO FLANGE & SPIGOT <input type="checkbox"/> OPEN PIPE

<b>HYDROSTATIC TEST</b>	ALL NEW UNDERGROUND PIPING HYDROSTATICALLY TESTED AT  PSI                      FOR                      HOURS	JOINTS COVERED  <input type="checkbox"/> YES <input type="checkbox"/> NO	
<b>LEAKAGE TEST</b>	TOTAL AMOUNT OF LEAKAGE MEASURED  GALS.                      HOURS		
	ALLOWABLE LEAKAGE  GALS.                      HOURS		
<b>HYDRANTS</b>	NUMBER INSTALLED                      TYPE AND MAKE	ALL OPERATE ATISFACTORILY <input type="checkbox"/> YES <input type="checkbox"/> NO	
<b>CONTROL VALVES</b>	WATER CONTROL VALVES LEFT WIDE OPEN IF NO, STATE REASON	<input type="checkbox"/> YES <input type="checkbox"/> NO	
	HOSE THREADS OF FIRE DEPARTMENT CONNECTIONS AND HYDRANTS INTERCHANGEABLE WITH THOSE OF FIRE DEPARTMENT ANSWERING ALARM	<input type="checkbox"/> YES <input type="checkbox"/> NO	
<b>REMARKS</b>	DATE LEFT IN SERVICE		
<b>SIGNATURES</b>	NAME OF INSTALLING CONTRACTOR:		
	<b>TESTS WITNESSED BY</b>		
	FOR PROPERTY OWNER (SIGNED)	TITLE	DATE
	FOR INSTALLING CONTRACTOR (SIGNED)	TITLE	DATE

ADDITIONAL EXPLANATION AND NOTES

(BACK)