



CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR UNDERGROUND 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
---------------	------

PROPERTY ADDRESS

PLANS	ACCEPTED BY APPROVING AUTHORITY('S) NAMES		
	ADDRESS		
	INSTALLATION CONFORMS TO ACCEPTED PLANS	YES	NO
	EQUIPMENT USED IS APPROVED	YES	NO
	IF NO, EXPLAIN DEVIATIONS		
INSTRUCTIONS	HAS PERSON IN CHARGE OF FIRE EQUIPMENT BEEN INSTRUCTED AS TO LOCATION OF CONTROL VALVES AND CARE AND MAINTENANCE OF THIS NEW EQUIPMENT? IF NO, EXPLAIN		
		YES	NO
	HAVE COPIES OF APPROPRIATE INSTRUCTIONS AND CARE AND MAINTENANCE CHARTS BEEN LEFT ON THE PREMISES? IF NO, EXPLAIN		
		YES	NO
LOCATION	SUPPLIES BUILDING:		
UNDERGROUND PIPES AND JOINTS	PIPE TYPES AND CLASS	TYPE JOINT	
	PIPE CONFORMS TO NFPA-24 STANDARD	YES	NO
	FITTINGS CONFORM TO NFPA-24 STANDARD	YES	NO
	IF NO, EXPLAIN		
	JOINTS NEEDING ANCHORAGE CLAMPED, STRAPPED, OR BLOCKED IN ACCORDANCE WITH NFPA-24 STANDARD		
		YES	NO
	IF NO, EXPLAIN		
TEST DESCRIPTION	<p><u>FLUSHING</u>. 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.</p> <p><u>HYDROSTATIC</u>. 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.</p> <p><u>LEAKAGE</u>. 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.</p>		
FLUSHING TESTS	NEW UNDERGROUND PIPING FLUSHED ACCORDING TO NFPA-24 STANDARD		
	BY (COMPANY)		
	IF NO, EXPLAIN		
	HOW FLUSHING FLOW WAS OBTAINED	THROUGH WHAT TYPE OPENING	
<input type="checkbox"/> PUBLIC WATER <input type="checkbox"/> TANK OR RESERVOIR <input type="checkbox"/> FIRE PUMP	<input type="checkbox"/> HYDRANT BUTT <input type="checkbox"/> OPEN PIPE		
LEAD-INS FLUSHED ACCORDING TO NFPA-24 STANDARD			YES NO
BY (COMPANY)			
IF NO, EXPLAIN			
	HOW FLUSHING WAS OBTAINED		THROUGH WHAT TYPE OPENING
	<input type="checkbox"/> PUBLIC WATER <input type="checkbox"/> TANK OR RESERVOIR <input type="checkbox"/> FIRE PUMP		<input type="checkbox"/> Y CONN. TO FLANGE & SPIGOT <input type="checkbox"/> OPEN PIPE

HYDROSTATIC TEST	ALL NEW UNDERGROUND PIPING HYDROSTATICALLY TESTED AT		JOINTS COVERED	
	PSI FOR	HOURS	YES	NO
LEAKAGE TEST	TOTAL AMOUNT OF LEAKAGE MEASURED			
	GALS. FOR	HOURS		
HYDRANTS	ALLOWABLE LEAKAGE			
	GALS. FOR	HOURS		
CONTROL VALVES	NUMBER INSTALLED	TYPE AND MAKE	ALL OPERATE ATISFACTORILY	
			YES	NO
REMARKS	WATER CONTROL VALVES LEFT WIDE OPEN IF NO, STATE REASON		YES	NO
	HOSE THREADS OF FIRE DEPARTMENT CONNECTIONS AND HYDRANTS INTERCHANGEABLE WITH THOSE OF FIRE DEPARTMENT ANSWERING ALARM		YES	NO
SIGNATURES	DATE LEFT IN SERVICE			
SIGNATURES	NAME OF INSTALLING CONTRACTOR:			
	CONTRACTOR'S COLORADO DFPC UNDERGROUND SUPPRESSION CONTRACTOR NUMBER:			
	TESTS WITNESSED BY			
	FOR PROPERTY OWNER (SIGNED)	TITLE	DATE	
	FOR INSTALLING CONTRACTOR (SIGNED)	TITLE	DATE	
	FOR LOCAL FIRE MARSHAL (SIGNED)	TITLE	DATE	
FOR RESPONSIBLE MANAGING EMPLOYEE (SIGNED)	TITLE	DATE		

ADDITIONAL EXPLANATION AND NOTES: