



TEXAS DEPARTMENT OF INSURANCE

State Fire Marshal's Office (112-FM)

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Contractor's Material and 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 the 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.

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|---------------|------|
| Property Name | Date |
|---------------|------|

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|------------------|------|-------|-----|
| Property Address | City | State | Zip |
|------------------|------|-------|-----|

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|--------------|---|------------------------------|-----------------------------|
| PLANS | Accepted by approving authorities (names) | | |
| | Address | | |
| | Installation conforms to accepted plans | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| | Equipment used is approved | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| | If no, state deviations | | |

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|---------------------|---|------------------------------|-----------------------------|
| 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 | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| | Have copies of appropriate instructions and care and maintenance charts been left on premises? If no, explain | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

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|-----------------|--------------------|
| LOCATION | Supplies buildings |
|-----------------|--------------------|

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|-------------------------------------|--|-------------|------------------------------|-----------------------------|
| UNDERGROUND PIPES AND JOINTS | Pipe types and class | Type joints | | |
| | Pipe conforms to _____ Standard | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| | Fittings conform to _____ Standard | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| | If no, explain | | | |
| | Joints needed anchorage clamped, strapped or blocked in accordance with _____ standard If no, explain | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

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| TEST DESCRIPTION | <p>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.</p> <p>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.</p> <p>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 quarts per hour (1.89 L/hr) 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 can be increased by 1 fl oz per inch valve diameter per hour (30 mL/25 mm/hr) 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 hydrant.</p> |
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| FLUSHING TESTS | New underground piping flushed according to _____ standard by (company) | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| | If no, explain | | | |
| | How flushing flow was obtained | Through what type of 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 _____ standard by (company) | | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| | If no, explain | | | |
| | How flushing flow was obtained | Through what type of opening | | |
| | <input type="checkbox"/> Public water <input type="checkbox"/> Tank or reservoir <input type="checkbox"/> Fire pump | <input type="checkbox"/> Y connection to flange spigot <input type="checkbox"/> Open pipe | | |

