



City of Columbus  
Mayor Michael B. Coleman

## Department of Public Utilities

Cheryl Roberto, Director

**RULE AND REGULATION 06-04**  
**Division of Power & Water**  
**Department of Public Utilities**

**June 2006**

**SUBJECT: SERVICE LINE MATERIALS UPSTREAM FROM WATER METER**

Pursuant to the authority granted under Columbus City Codes Section 1101, the Director of the Department of Public Utilities hereby adopts, establishes and publishes this rule and regulation to be effective at the earliest date allowed by law. This rule and regulation is in addition to any established requirements that have not been superseded or rescinded by this or any previous act.

**APPLICATION:**

Materials for all water service lines connected to the City of Columbus, Division of Power & Water distribution system, including retail contract areas, but excluding wholesale contract areas.

**DEFINITIONS:**

**Retail Contract Areas:** those areas or municipalities that own the water main lines but have a contract with the Division of Power & Water to provide water and to maintain the water main lines.

**Wholesale Contract Areas:** those water service areas or municipalities that own and maintain their own water distribution system, but have a contract with the City of Columbus, Division of Power & Water to provide water service through a master meter.

**Water Service Line:** all piping from the curb stop or gate valve, to where the meter setting begins.

**GENERAL REGULATION:**

The same material shall be used for the entire length of the service line.

Utilities Complex	910 Dublin Road	Columbus, Ohio 43215	
Director's Office	614/645-6141	FAX: 614/645-8019	TDD: 614/645-6454
Sewerage and Drainage Division	614/645-7175	FAX: 614/645-3801	TDD: 614/645-6338
Water Division	614/645-7020	FAX: 614/645-8177	TDD: 614/645-7188
Electricity Division	3500 Indianola Avenue	Columbus, Ohio 43214	
	614/645-8371	FAX: 614/645-7830	TDD: 614/645-6454

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**I. Two inch and Smaller Service Lines:**

**Materials:**

All Service lines two inches (2") and smaller shall be either Type K, soft temper copper tubing conforming in all respects to ASTM B 88 or Federal Specification WW-T-799 or shall be ultra high molecular weight polyethylene tubing PE 3408, ASTM D-2737, SDR-9. The ultra high molecular weight polyethylene tubing shall be manufactured, tested and approved under ASTM D-1238, ASTM D-3350, AWWA C-901 and NSF certified under standards NSF-14 and NSF-61. The polyethylene material from which the tubing is extracted shall have a minimum cell classification of 345444C as per the requirements of ASTM D-3350 and a hydraulic design basis (HDB) of 1,000 psi @ 140 degrees Fahrenheit as certified by the Plastic Pipe Institute (PPI).

The polyethylene tubing must appear on the current City of Columbus, Division of Power & Water approved manufacturer's list.

**Reference:**

Standard Detail Drawings: L-8503 and L-9901.

**II. Three inch and Larger Service Lines:**

**Materials:**

Water service lines three inches (3") and larger shall be ductile iron pipe AWWA C150. Internal pressure shall be 150 psi (1034 kPa) normal operating pressure; 100 psi (689 kPa) surge pressure (water hammer). Factor of Safety: 2.0 Minimum. Pipe shall be manufactured in accordance with AWWA C151 except as herein modified:

Hardness: Rockwell B-90 maximum

Corrosion Allowance: .08 inches (2 mm) minimum

Wall thickness and Class as follows:

<u>Size</u>	<u>Wall Thickness</u>	<u>Thickness Class</u>
3 Inches (76 mm)	.31 (7.9 mm)	53
4 Inches (102 mm)	.32 (8.1 mm)	53
6 Inches (152 mm)	.34 (8 mm)	53
8 Inches (203 mm)	.36 (9.1 mm)	53
10 Inches (254 mm)	.38 (9.7 mm)	53
12 Inches (305 mm)	.43 (10.9 mm)	54
16 Inches (406 mm)	.46 (11.7 mm)	54

All piping shall have a bituminous-coated cement lining complying with AWWA C104 Specifications and shall have an outside coating of bitumastic enamel or approved equal.

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**Reference:**

Standard Detail Drawings L-6317 A through E.

APPROVED: *RC Westerfield*  
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DIVISION OF POWER & WATER

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