

ORDINANCE 34  
AN ORDINANCE FOR BUILDING SEWERS

1. Definition of BUILDING SEWER. That part of the lowest horizontal pipe which begins five (5) feet outside of the wall of a building and connects the HOUSE DRAIN with the main public sewer or other disposal terminal.
2. Specific REQUIREMENTS:
  - a. Rain Water Leaders. Roof leaders, surface drains, or ground water drains shall not be connected to the sanitary sewer.
  - b. Independent System. Each building sewer and drainage system shall be independent of that of any other building, except where one building stands in the rear of another on an exterior lot, the building sewer from the front building may be extended to the rear building and the whole considered as one house sewer when so approved by the city.
  - c. Use of Public Sewer Required. Where a public sewer is accessible in an easement, street, or alley adjacent to a lot with a building or premises abutting thereon the liquid wastes from any plumbing system in said building shall discharge into the public sewer as provided by the sanitary sewer rules and regulations and/or rate ordinances.
  - d. Connection to the Main Public Sewer. Before any connection is made to a public sewer, an approved permit for such connection must be obtained from the governing body or its designated representative. Each connection to the main sewer shall be made to the fitting designated for that property. If a fitting in the main sewer is not available for the designated property, the connection shall then be made under the direct supervision of the sewer inspector.
  - e. No person shall make connection of roof downspouts, exterior foundation drains, areaway drains, or other sources of surface runoff or groundwater to a building sewer or building drain which in turn is connected directly or indirectly to a public sanitary sewer.
  - f. The connection of the building sewer into the public sewer shall conform to the requirements of the State of Iowa plumbing code except as modified herein or other applicable rules and regulations of the city, or the procedures set forth in appropriate specifications of the A.S.T.M. and the W.P.C.F. Manual of Practice No. FD-S. All such connections shall be made gastight and watertight. Any deviation from the prescribed procedures and materials must be approved by the Superintendent before installation.
  - g. A "Y," "T," or "Cleanout" fitting may be installed near the building foundation to provide for cleanout purposes.
3. Supervision. A SEWER INSPECTOR shall be appointed pursuant to the laws of the City and State and shall, under the direction of the governing elective officers of the municipality, supervise all building sewer connections and excavations for the purpose of installing or repairing the same.
4. Specifications:
  - a. Material. All building sewers shall be constructed of either service cast iron soil pipe meeting ASTM A888 (hubless) or ASTM A74 (with hub) , SDR 35, 26, or 23.5 poly vinyl chloride (PVC) plastic sewer pipe meeting ASTM 3034, PVC corrugated sewer pipe conforming to ASTM F 949, or schedule 40 PVC drain/waste/vent pipe conforming to

ASTM D1785, all PVC pipe shall be manufactured utilizing PVC resin cell Class 12454 b as defined by ASTM D1784.

b. Pipe, Joints, and Connections.

- (1) Service cast iron soil pipe, fittings, and joints shall be installed according to applicable plumbing code requirements and the recommendations of the Cast Iron Soil Pipe Institute and shall conform to:

Pipe and Fittings

ASTM A74 "Cast Iron Soil Pipe and Fittings"  
ASTM A888 "Hubless Cast Iron Soil Pipe and Fittings"

Joints and Couplings

ASTM C654 "Rubber Gaskets for Cast Iron Soil Pipe and Fittings"  
CISPI 310 "Couplings For Use in Connection with Hubless Cast Iron Soil Pipe and Fittings . . ." (With stainless steel shield)

- (2) Polyvinyl chloride (PVC) plastic sewer pipe, fittings, and joints shall be installed according to applicable plumbing code requirements and the recommendations of the Uni Bell Plastic Pipe Association and shall conform to:

Pipe and Fittings

ASTM D3212 "Joints for Drain and Sewer Plastic Pipe Using SDR 35, 26, or 23.5"

Joints

ASTM D3212 "Joints for Drain and Sewer Plastic Pipe Using Flexible Elastomeric Seals"

- (3) Corrugated PVC sewer pipe, joints and fittings shall be installed according to applicable plumbing code requirements and the manufacturers' recommendations and shall conform to:

Pipe, Fittings, and Joints

ASTM F949 "PVC Corrugated Sewer Pipe with a Smooth Interior and Fittings."

- (4) Schedule 40 polyvinyl chloride (PVC) pipe shall be installed according to applicable plumbing code requirements and the manufacturers' recommendations and shall conform to:

Pipe

ASTM D2665 "Polyvinyl Chloride Plastic Drain, Waste and Vent Pipe and Fittings" except that NO UNDERGROUND GLUED JOINTS ARE PERMITTED.

Fittings

Only gasketed fittings are to be used. Fittings shall conform to the performance requirements of ASTM D2241 "Polyvinyl Chloride Pressure Rated Pipe."

Gasketed Joints

ASTM D3139 "Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals"

- c. Size of Building Sewer. Building sewers shall be sized to meet capacity requirements, but no building sewer shall be less than four inches in diameter.

- d. Grades for Building Sewers. Unless otherwise authorized, all building sewers shall have a grade of not less than one-eighth inch per foot. A grade of one-fourth inch per foot shall be used wherever practical.
- e. Trenching and Backfilling. All excavations shall be open trench work unless otherwise authorized by the sewer inspector. The foundation in the trench shall be formed to prevent any subsequent settlement of the pipes. If the foundation is good, firm earth, the earth shall be pared or molded to give a full support to the lower quadrant of each pipe. Bell holes shall be dug. Backfilling shall not be done until final inspection is made by the sewer inspector. Backfilling shall be placed in layers and solidly tamped or packed up to two feet above the pipe.

Note: Where the floor of the trench is soft or rocky material the trench shall be excavated to four inches below grade and brought back to the proper grade with fine gravel, course sand or similar material so as to provide a firm foundation and uniform support for the building sewer line.

- f. Use of Old Building Sewers. Old building sewers or portions thereof may be approved for use by the sewer inspector. The sewer inspector may request that the old sewer be excavated for the purpose of facilitating inspection. No old cesspool or septic tank shall be connected to any portion of a building sewer that is also connected to the public sewer. Watertight couplings with stainless steel shields shall be used to connect different materials.
- 5. Inspection. Each and every part of the building sewer shall be inspected and approved by the sewer inspector before being concealed or backfilled.
  - 6. Penalties. Any person violating any of the provisions of this ordinance shall become liable for any expense, loss, or damage by reason of such violation as provided by the Rules and Regulations and/or Rate Ordinance.
  - 7. This Ordinance shall be in full force and effect upon its passage and publication, according to the law of the State of Iowa.

Passed and approved this 18<sup>th</sup> day of September, 2001.

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Chairman Jay Urdahl  
Board of Supervisors

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Vice Chairman Phillip E. Dougherty  
Board of Supervisors

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Supervisor Robert E. Amosson  
Board of Supervisors

(SEAL)

Attest:

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Kenneth W. Kline  
County Auditor