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CH15 15 .25 - Sanitary Sewers

- A. All proposed plats submitted to the Commission for approval, under the provisions of the Comprehensive Plan and this chapter shall provide for the collection of all sanitary sewage discharges by the installation of sanitary sewers. These sewers shall be constructed within the street rights-of-way or within other dedicated sewer and utility easements.
- B. The design of and the construction plans for the sanitary sewer system shall be prepared by an engineer, registered in the state, and said plans shall be a part of the Development Plans
- C. The plans shall meet the requirements of the Comprehensive Plan, this chapter, and the standards of the state. Further, the plans shall be reviewed and approved by the Indiana State Board of Health.
- D. The sanitary sewers shall be constructed of the materials set out in division (G) of this section, of where situations are extreme, special materials may be required by the Town Engineer.
- E. Sewer service connections, house connections.
1. The service connections shall be installed in accordance with the current Uniform Plumbing Code, and the rules, regulations, resolution and ordinances adopted by the town.
 2. Sewer service connections shall be a minimum of six inches in diameter, laid on a minimum slope of 0.61 feet per 100 feet. Cleanouts shall be installed to grade at all bends of 45 degrees or greater, and at the high point of the connection adjacent to the building sewer connection. Where the sewer service connection is located within 50 Feet of a water well, the connection shall be constructed with pressure rated pipe materials and joints. No sewer service connection shall be constructed closer than 25 feet to well.
 3. Sewer service connections shall be connected to the street sewer or local sewer only, utilizing only approved fittings and construction methods. Service connections to manholes shall not be allowed, and the cutting or breaking into sanitary sewers shall not be allowed.
- F. Local, collector and interceptor sewers.
1. These sewers shall be constructed in accordance with the standards of the state, good engineering and construction practices, and the requirements of the Town Engineer.
 2. The sewers shall be designed for the following peak flow capacities:
 - a. Local sewers, 400 gallons per capita per day, eight-inch minimum diameter.

b. Collector and interceptor sewers, as set out in the "Recommended Standards for Sewage Work - Latest Edition" of the Great Lakes - Upper Mississippi River Board of State Sanitary Engineers.

3. Sanitary sewers shall be designed for the size and minimum slopes of:

Size (diameter in inches) Minimum Slope

8 0.40 feet per 100 feet

10 0.28 feet per 100 feet

12 0.22 feet per 100 feet

15 0.15 feet per 100 feet

18 0.12 feet per 100 feet

21 0.10 feet per 100 feet

24 0.08 feet per 100 feet

27 0.067 feet per 100 feet

G. Sewer Materials for Construction. The sanitary sewers, house connections and manholes shall be constructed of the following materials. The application of these pipe materials shall be specified upon the construction plans, and approved by the Town Engineer.

1. A cast iron and ductile iron shall be:

Type Specifications

Soil pipe ASA A 40.1-1935 EXTRA HEAVY

Ductile Iron ANSI A 21.50 AND 21.51

Cast Iron ANSI 21.1 AND 21.8

Cast Iron Fittings ANSI A 21.10

Rubber Gasket Joints ANSI A 21.11

2. Concrete Pipe, 15 inches and larger shall be reinforced concrete culvert, storm drain and sewer pipe, specification ASTM C 76 and C 507. All reinforced pipe shall be of circular reinforcement, the class (I, II, IV & V) and wall thickness (A, B, or C) shall be shown on the construction plans, for concrete sewers, shall be equal to ASTM C 443.

3. Polyvinyl Chloride (PVC) pipe.

a. PVC gravity sewer pipe shall be of the single wall construction for all sizes. This pipe shall only be used for residential installations. Industrial or commercial uses shall require the approval of the Town Engineer. This pipe shall meet ASTM Specification D 3034 with the wall thickness equal to an SDR ratio of 35. The pipe shall be joined with rubber ring gaskets covered in the same specification, and shall be installed in accordance with ASTM D 2321.

b. PVC pressure sewer pipe (force main), shall be equal to ASTM D 2241 with a wall thickness ratio (SDR) of 26, or heavier, and joined with rubber ring gaskets equal to ASTM D 1869.

4. Manholes. All manholes on sanitary sewers shall be a minimum of 4 foot in diameter for sewers 8 inches through 21 inches diameter, and 5 feet in diameter for sewer 24 inches through 30 inches in diameter. The manholes shall be constructed using precast manhole barrels meeting ASTM Specification C478. The manhole shall be water tight at all joints and at all pipe inlets. The manhole joints shall be made with AO-Rings@ Plastic fillers, which shall meet ASTM Specification C 443. All manholes shall be constructed with concrete inverts and benchwalls, providing for the smooth flow

of sewage across the manhole section. Manhole steps, castings and other appurtenant items shall be as required by the Town Engineer.

H. The Developer shall notify the town 24 hours prior to the commencement of construction of any sanitary sewer. The construction shall be inspected by the town on a periodic basis, for determining conformance with these requirements and the construction plans. The towns inspection shall also observe and report on all testing required by this chapter and the acceptability or deficiencies of the sewer being tested. The developer shall be responsible for furnishing all test weirs, or other apparatus required to perform the following tests, as well as all labor to accomplish them. The town shall be notified 24 hours prior to any testing and shall observe all tests. Any one or all of the following tests may be required prior to the acceptance of the sewer being tested; air test; smoke test; infiltration test; exfiltration test; and dejection test, for flexible pipes. New sanitary sewers shall not be connected to the existing system, until they have been inspected and approved. Further, no service connection shall be connected to new local sewers until the local sewer has been inspected and approved.

[NOTE: INCLUDE HOUSE LATERALS.]