

VILLAGE OF ALANSON
SANITARY SEWER HOOK-UP SPECIFICATIONS

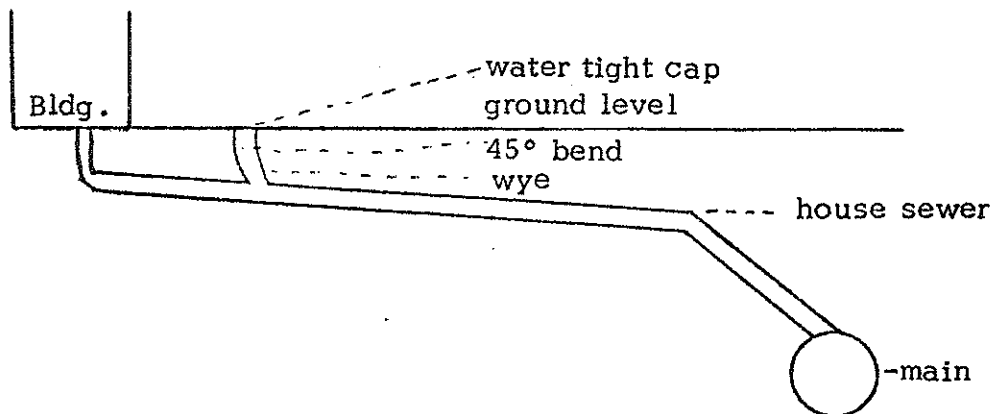
REGULATIONS COVERING BOTH RESIDENTIAL AND COMMERCIAL SEWER CONNECTIONS TO THE HARBOR SPRINGS AREA SEWER SYSTEM:

1. A permit must be issued by Village of Alanson
2. All contracted work must be done by a licensed drain layer or plumber.
3. Pipe diameter will be either 6" or 4".
4. The types of pipe that are acceptable:
 - a. Plastic (ABS) ASTM D 1527 Schedule 40
 - b. Plastic (PVC) ASTM D 1785 Schedule 40
 - c. Vitrified Clay (VC) ASTM C-700 Extra Strength
 - d. Asbestos-Cement (AC) ASTM C-428 C1-2400
 - e. Cast Iron Extra Heavy ASTM A-74
5. Pipe joints to be of premium quality and watertight.

SEWER HOOK-UP INSTALLATION PROCEDURE:

1. The building sewer shall be uncovered near the building and the elevation checked.
2. The tile must be installed commencing at the main or stub at the property line and laid at a uniform line and grade to the building connections.
3. Old building sewers may be used providing they are found to be in good condition and are approved by the inspector.
4. When connecting to the 6-inch stub at the property line, a water tight connection must be made. When reducing from 6-inch to 4-inch at the stub, a rubber donut will be used.
5. The ditch bottom must be as level and dry as possible before pipe is laid. No chunks, rocks, hard clay or other hard uneven material will be allowed under, around or over the pipe to a depth of 12 inches over the tile.

6. Where unstable material is encountered, the Inspector may require that the pipe be laid on clean compacted sand or small stone.
7. All sewer pipe under driveways, walkways, parking lots and plowed areas must have a minimum of 4 ft. cover or below frostline. All other areas should have a minimum of 2 ft. cover.
8. Cleanouts shall be provided at spacing not to exceed 80 ft. with a minimum of one cleanout to be located near the building. The inspector may ask for additional cleanouts wherever a bend or series of bends exceed 45°. The cleanout shall consist of a wye installed in the line with a 45° bend and a riser extending to the surface of the ground with a water tight cap. The cleanout shall be located so that a rod can be inserted at the building end and run all the way to the main.
9. Where two or more building sewer lines come together outside the building, provisions must be made for cleaning all lines. Separate cleanouts or a manhole shall be installed by the owner.



10. Minimum grade shall be as follows:
 - 6-inch pipe - 1/8" per foot or 1" per 8 feet
 - 4-inch pipe - 1/4" per foot or 2" per 8 feet
11. The contractor or owner shall notify all public utilities who may have underground installations in the area. These may include one or more of the following:
 - Consumers Power Company
 - Michigan Consolidated Gas Company
 - Top-O-Michigan Rural Electric Company
 - Michigan Bell Telephone Company
 - Continental Telephone Company
 - Harbor Springs Light and Water PlantAll underground installations should be located prior to excavating for the service lead.

12. The owner should locate his own water system including the well and underground water lines.
13. The stub at the property line will be located by the Authority.
14. Each permit must include a sketch showing the proposed hookup and should include the following:
 - a. Building
 - b. Septic tank
 - c. Lines to the tank from the building or buildings
 - d. Size of the proposed line
 - e. Distance in feet
 - f. Location of cleanouts
15. The inspector may make such changes or modifications as he deems necessary to meet special conditions.
16. In the event the Inspector finds that the licensed contractor is not laying the sewer line in the manner that conforms with the Township ordinance and these regulations, he may stop the contractor by notice in writing with a copy to the Township.
17. Any connection to the Harbor Springs Area Sewage Authority's main sewer requires a permit issued by the Harbor Springs Area Sewage Authority.

VILLAGE OF ALANSON

HARBOR SPRINGS AREA SEWAGE DISPOSAL AUTHORITY

NOVEMBER, 1997

SPECIFICATIONS FOR CONNECTIONS TO THE MUNICIPAL SEWER SYSTEM

Connections to the municipal wastewater system operated by the H.S.A.S.D.A. in portions of Little Traverse Township, Littlefield Township, the Village of Alanson, West Traverse Township, Bear Creek Township and Springvale Township shall follow the requirements set forth below.

A. All connections to the sewer system shall follow the appropriate municipal sewer connection ordinance whenever possible.

B. If it is not possible or if the developer, builder, engineer, or homeowner believes that connecting via the conventional means may pose a safety hazard, financial burden or other significant problem, he may approach the manager of the H.S.A.S.D.A. and request to connect via a secondary means. If the manager agrees that there is a valid concern and that it is appropriate to bring before the board, the manager will then put the issue on the agenda for the following regular board meeting. This addition to the agenda must be made no later than one week (seven days) before the date of the meeting and must require written plans for review.

C. If the connection is approved by the board of trustees, the homeowner or developer is then responsible for the following:

1. He must notify the H.S.A.S.D.A. no later than 48 hours before connection to the municipal sewer is to take place.
2. He must follow ALL requirements for connection listed below.

D. Requirements:

1. Connection to an existing manhole
 - a. The hole through the sidewall of the manhole MUST BE bored so as to produce a circular hole for the elimination of future infiltration.
 - b. The pipe going through the sidewall of the manhole must be booted by means of a rubber boot or link-seal type connection.
 - c. The pipe entering the manhole must have a 90° elbow attached with a drop pipe taken to within three feet of the bottom of the manhole.
2. Connection to any other portion of the sewer system
 - a. These will be approved on a case-by-case basis and may require a minimum of thirty days review by the board of trustees or their engineering firm.

Robert H. Morris
Manager

