



## Sanitary Waste Ejector System Permit Submittal Requirements

**PERMIT REQUIRED:** A permit is required for the installation of a sanitary waste ejector (sump pump) system.

**CODES:** Uniform Plumbing Code (Current Edition)

**FEE:** Please refer to City fee schedules.

### **SUBMITTAL REQUIREMENTS:**

1. Permit Application
2. Plot Plan – Three (3) copies, scaled 1"=20' (one (1) of the three (3) plot plans must be no larger than 8½" x 14") with the following:
  - a) Property lines and any easements
  - b) Manhole elevation (rim and invert) of nearest upstream and downstream manholes
  - c) Elevation of sewer lateral stub at the property line (information at City Hall)
  - d) Grade/slope of proposed piping
  - e) Finished slab and/or floor elevations
  - f) Lowest elevation of plumbing fixtures to be served by the ejector system
  - g) Location of ejector pump within the house (specify room or area). For exterior installations show locations of ejector pump on site plan and include the distance of pump to exterior wall of building and nearest property lines.
  - h) Location and type of alarm for over flow to be used
3. Plumbing schematic of all piping to be used in the sewer ejector system (distinguish new versus existing piping and fixtures). NOTE: the minimum size of any pump from a sump having a water closet connected to it shall not be less than two (2) inches. The minimum size sanitary side sewer line shall be four (4) inches.
4. Sizing calculations for the sewer ejector pump
5. Manufacturer's specifications for the sewer ejector pump and backwater valve

### **DESIGN STANDARDS**

All equipment shall be UL listed and ICC/IAPMO certified, and shall be installed per the manufacturer's installation instructions. Design flow rates shall be based on peak water demands of all fixtures flowing into the sewer ejector system as outlined in Appendix A of the Uniform Plumbing Code.

## **Prohibited Installations**

- ◆ Storm drains (including roof drains), footing drains and groundwater collection systems are not permitted to be connected to a sewage ejector pump.
- ◆ Sump pumps (pumps that transfer seeping groundwater from a foundation crawlspace or basement to a location outside the home above grade) are not permitted to be connected to a sewer ejector pump.

## **NON-RESIDENTIAL INSTALLATIONS**

Section 710.9 of the Uniform Plumbing Code requires that interior sewer ejector pumps have a dual pump system when serving any *public use occupancy*. Dual pumps shall be arranged to function independently in case of overload or mechanical failure. The lowest inlet shall have a minimum clearance of two (2) inches from the high water or starting level of the sump. Public use pumps shall have an audio and visual alarm, readily accessible, that signals pump failure or an overload condition.

## **OTHER PERMIT INFORMATION**

Side Sewer Permit: Extension, alteration of, or connection to, the building side sewer line shall be completed in accordance with the terms of a Side Sewer permit ([See side sewer permit handout for additional information](#)). Inspections for this portion of the piping are performed by the City Engineering Inspector (425-771-0220 ext 1326).

Plumbing Permit: Extension, alteration of, or connection to the building drain line, and/or installation of an ejector pump inside the house or within two (2) feet of the exterior wall are regulated by the Uniform Plumbing Code. Inspections for this portion of the piping are performed by the City Building Inspector (425-771-0220 ext 1333).

\*Note, it is possible that both a Side Sewer Permit and a Plumbing Permit could be required on some projects.

\*\*Note, if it is discovered that the side sewer line is cracked or damaged, thereby allowing infiltration of rain or ground water, that piping shall be required to be immediately repaired with a side sewer repair permit.

\*\*\*Note, all contractors doing work in the City must obtain a [City business license](#).

NOTE: THE PURPOSE OF THIS HANDOUT IS TO ASSIST THE PUBLIC IN COMPLYING WITH DETAILED PERMIT SUBMITTAL REQUIREMENTS. IT IS NOT A COMPLETE LIST OF PERMIT OR CODE REQUIREMENTS AND SHOULD NOT BE USED AS A SUBSTITUTE FOR APPLICABLE LAWS AND REGULATIONS. IT IS THE RESPONSIBILITY OF THE OWNER/DESIGN PROFESSIONAL TO REVIEW THE SUBMITTAL FOR COMPLETENESS AND APPLICABILITY TO OTHER CODES. ONLY COMPLETE APPLICATIONS WILL BE ACCEPTED BY THE CITY FOR REVIEW.