

SANITARY SEWER SYSTEMS

U of I Sewer Systems: The University of Illinois at Urbana-Champaign owns, operates and maintains the sanitary sewer system that serves the Urbana Champaign Campus. This is a critical system as buildings cannot be occupied without a functioning sanitary sewer connection. The system ultimately connects to interceptor sewers operated by the *Urbana-Champaign Sanitary District*. The *Urbana Champaign Sanitary District* operates regional treatment plants in this area. Connections may also be made to systems operated by the *City of Champaign* and the *City of Urbana*. Use of U of I campus sanitary sewers is required for University facilities when feasible from an infrastructure and cost standpoint. Long range planning shall give consideration to optimizing sanitary sewer service on the U of I campus.

Compliance: The design and construction of all sanitary sewer systems on campus shall be in compliance with *Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition*, and the requirements of the *Urbana-Champaign Sanitary District*. Compliance with *City of Urbana* or *City of Champaign* requirements is required when connecting to their sewers.

Lift Stations: At the time of this writing the U of I sanitary sewer system includes two major pump stations. These are extremely critical as the campus cannot function for an extended period of time without their proper operation. Thus, these stations shall be identified as critical facilities by projects that impact their operation. These stations are provided with emergency backup generators and are monitored and alarmed remotely. Work on these stations shall incorporate full capacity backup systems providing uninterrupted operation during repair, replacement or maintenance procedures. Any work that impacts the function of these stations must be reviewed and approved by *F&S Utilizes and Energy Services Division*. No new lift stations shall be constructed on campus. Thus all new sewers shall drain by gravity.

Independent Systems: Buildings at remote locations not adjacent to the campus sanitary sewer system shall be configured with septic systems. These are regulated by

the *Illinois Department of Public Health* and require permits. These systems are not the responsibility of *F&S Utilizes and Energy Services Division*.

Minimize Clear Water: It is the goal of the U of I to minimize the amount of clear water discharged into any sanitary system(s) on campus that, according to the *Illinois State Plumbing Code*, could have been discharged outdoors or into a storm water drainage system.

Future Considerations: All sewer piping shall be sized and configured appropriately to serve the ultimate future capacity requirement in the geographical area being served.

Manholes: A manhole shall be provided at each change in direction of the piping system as well as at a minimum of 300-400 ft. intervals.

Specific Design Information: Information about sanitary sewer systems and/or their extension/modification to serve new facilities shall be obtained via a *Utility Program Statement*. Clarifications and further information are available from the *F&S Utilities and Energy Services Division*.

Permits: Sanitary sewer projects, including construction or maintenance, require a permit from the *Urbana-Champaign Sanitary District*. Projects with a sanitary sewer flow of greater than 1500 gallons per day required a permit from the *Illinois Environmental Protection Agency* as well as the *Urbana Champaign Sanitary District*. The AE is responsible for filling out these permits and all necessary schedules, drawings and specifications that accompany them. Permits completed by the A/E shall be submitted to *Facilities and Services Environmental Compliance*. This group shall obtain required signatures and forward the permit to the appropriate regulatory agency.