U of I Sewer Systems: The University of Illinois at Urbana-Champaign owns, operates and maintains the underground sanitary sewer systems that serve the majority of campus. Each system is served by gravity drainage, a lift station, or a combination of the two. Each system on campus ultimately feeds into major interceptor sewers and sewage processing facilities that are owned and operated by the Urbana-Champaign Sanitary District. Sewage is transported from the various U of I systems to UCSD facilities either directly through a U of I-owned sewer system or indirectly through either a City of Urbana or a City of Champaign sewer system. It is the goal of the U of I to minimize the usage of municipal sanitary sewer systems while maximizing the usage of U of I-owned systems. This should be taken into consideration when expanding or reconfiguring a sanitary sewer system on campus.

Lift Stations: The U of I campus cannot function for an extended period of time without the proper operation of its sewage lift stations. Therefore, these stations are to be viewed as critical facilities and are to be designed and constructed as such. The design of lift stations should incorporate backup equipment and systems as appropriate. Means shall be provided for allowing operation during repair, replacement and maintenance procedures. Appropriate alarms should be provided and tied into the central EMS system.

Independent Systems: In addition to the main sanitary systems described above, there are also several small “independent” sanitation systems located on campus. The majority of these systems consist of septic tank / leach field or multi-flow systems that serve U of I-owned residences in the Carle-Bliss area and/or remote U of I-owned farm buildings located south of St. Mary's Road.

Compliance: The design and construction of all sanitary sewer systems on campus shall be in complete compliance with the current revision of the Standard Specifications for Water and Sewer Main Construction in Illinois. These standards are to be viewed as the “final authority” for establishing the minimum requirements of water distribution systems. They shall also be in full compliance with all applicable requirements of the Urbana-Champaign Sanitary District as well as any municipality whose sewer system is located downstream of a particular U of I system. The requirements of these documents often exceed the minimum requirements referenced above. When they do, they shall be complied with.

Minimize Clear Water: It is the goal of the U of I to minimize the amount of clear water that is 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 need for the removal of sewage 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 300-400 ft. intervals (minimum).

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

Documentation and Submittals: The AE shall review the Project Submittal Requirements.