PLUMBING EQUIPMENT:

1. DESIGN STANDARD:

   1.1 When domestic house pumps are required, the pumping system must pump the entire building. A full size bypass line with a shut off valve must be provided.

   1.2 Acid dilution basins must be designed with sampling well.

   1.3 Grease traps must be provided for all commercial kitchen applications.

   1.4 Sump pumps and sewer ejector pumps must be provided to meet flow elevation requirements.

   1.5 Provide domestic hot water circulation systems where directed by Rice University’s Project Manager.

2. PRODUCT STANDARD:

   2.1 For domestic pumping systems the Rice University prefers variable speed drives and prefers not to have a bladder tank. 2 stage at minimum.

   2.2 All large domestic water heaters are to be steam to water shell and tube type heat exchangers. (Provided under mechanical sections.)

   2.3 Master House/Residential Homes use gas fired hot water heaters.

   2.4 Sewer and Storm Injectors.

   2.5 Grease traps/interceptors.

   2.6 Acid Neutralization basins with sampling well similar to Enfield.

3. PERFORMANCE STANDARD:

   3.1 Sump pumps and Sewer Ejector pumps: Rice University to provide a list of acceptable manufacturers.

   3.2 Design grease traps per Code Requirements.

   3.3 Hot water circulation system to be sized 5-10 gpm minimum at water heater.

   3.4 Hot water heater sizing per code requirements.