



## Master Pump Stations and Force Mains

Southwest Florida

**Southwest Florida International Airport (RSW) Sanitary Sewage Pump Station and Force Main project.** This system, which serves one of the nation's fastest growing airports, was designed in anticipation of the development of the new Midfield Terminal Complex, as well as a result of limited capacity at the then existing package wastewater treatment plant. The Lee County Port Authority elected to connect the wastewater collection system at the airport to the Lee County Utilities wastewater system. Hole Montes provided engineering, planning, permitting,

design and CEI services to the Port Authority for the project. Included in the design was an addition of a Pump Station and 10,400 linear feet of 10-inch diameter force main.

**Collier County North/South Sanitary Sewer System Interconnect** — Collier County operates two regional sanitary sewer systems, one serving the northern portion of the county and the other serving the southern portion. Each regional sewer system is served by a regional water reclamation facility to treat the collected wastewater. In order to allow balancing between wastewater treatment plant capacity and flows being directed to these two regional water reclamation facilities, Collier County initiated a project that would interconnect the two regional sanitary sewer systems,

as well as allow a central portion of the two systems to be pumped to either treatment facility, depending on the available reserve capacity. Hole Montes modeled both systems to develop the concept design for this interconnect system, prepared plans and specifications, provided CEI services, and assisted with the startup and training for operation of the modified systems. In order to implement this system on a fast-track schedule, along with available budget, the project was divided into three sequential phases to allow benefit from the project to come on-line as the various phases were constructed.



**Collier County Master Pump Station 1.02**, one of the largest pump stations in the Collier County Sewer System, was designed by Hole Montes. This pump station serves to re-pump sanitary sewage that has been pumped by a group of other large pump stations. The 1.02 Station consists of two 400-horsepower pumps that are driven by 400-horsepower variable drives.