

Municipal Lift Station

Date Completed:

2014

Construction Cost:

\$2.0 Million (Estimated)

Client or Owner's Rep:

Mr. Prasad Kolluru, PE
President, Amani Engineers

Highlights:

- ✓ **Lift Station - Submersible**
- ✓ **Electrical, Instrumentation and Controls**
- ✓ **Rehabilitation**
- ✓ **Temporary Power**

Rehabilitation and Design of Storm Water and Sanitary Sewer Lift Stations at Bush Intercontinental Airport (Project No. 638; CIP No. A-0561 & A-0565)

City of Houston | Houston, Texas

Project Description | The project includes rehabilitation of existing storm water and sanitary lift stations including electrical, instrumentation and control.

Services Provided | As a sub-consultant to Amani Engineers, KGI was responsible for electrical, instrumentation and controls portions of the project during PER and detailed engineering phases. KGI's scope included removing and replacing existing electrical power, controls, and instrumentation not only to meet the higher pump HP requirements but also to comply with latest City of Houston Lift Station Design Standards. The project included the following lift stations:

- Storm Water Lift Station No. 1 – Upgrade of Existing Storm Water Lift to three 350 HP storm water pumps. The electrical improvements included two 12.47 kV circuits, transformers, air-conditioned above grade electrical building located above the 500-year flood plain elevation, new lift station control, new conduits and cables, Siemens PLC and provisions for connecting to a mobile emergency generator.
- Sanitary Sewer Lift Station at Gate D-4 - Replace existing pumps with two new 5 HP submersible pumps.
- Sanitary Sewer Lift Station at Gate C-45 - Replace existing pumps with two new 7.5 HP submersible pumps.