



School District in Houston, Texas

Water Conscious Texas School District Upgrades to Rain Bird® Products

This massive Texas school district spans approximately 90,000 square miles and includes 52 early childhood, intermediate, high school, and specialized program campuses. The district includes approximately 40 athletic sites and more than 50,000 students.

THE CHALLENGE

As one of the largest districts in the Houston metroplex, the Energy Management staff is searching for a more efficient irrigation system that conserves water and provides access to real-time data and controls. The goal is to develop a more sustainable irrigation system that allows the team to be proactive.

THE SOLUTION:

With the aid of a local grant program, the Texas school district will work with Rain Bird to implement an intelligent irrigation system that facilitates communication, visibility, efficiency, and greater water stewardship.



ESP-LX Series Controllers

Core Products Used:

- ESP-LX Series Modular Controllers
- ESP-LXD Series Two-Wire Decoder Controllers
- IQ Central Control
- 4G Cellular Cartridge
- FS Series Flow Sensors

KEY OBJECTIVES

- ✓ **Increase Operational Efficiency**
- ✓ **Improve Water Conservation Efforts**
- ✓ **Establish a Proactive Approach**
- ✓ **Allow for Real-time, Remote Visibility**



Site Report: **School District in Houston, Texas**

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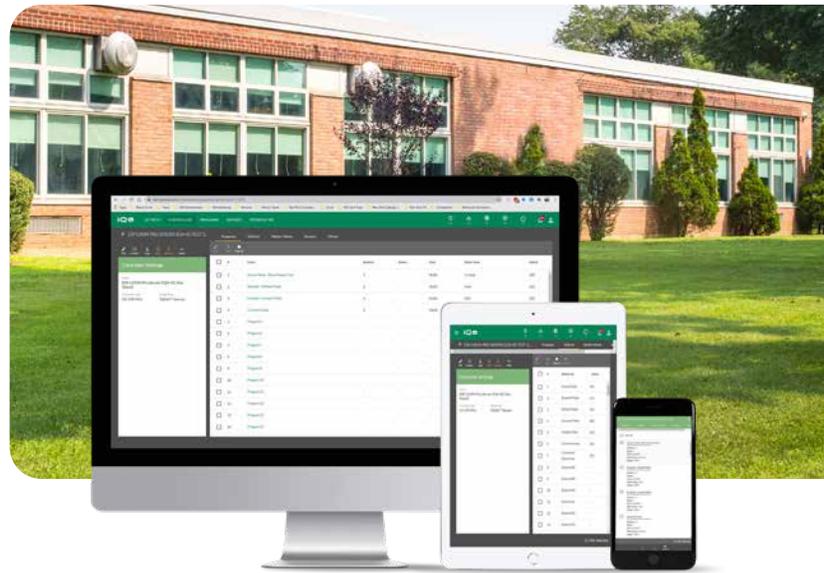
APPROACH:

Install ESP-LX Series Modular Controllers

The team will utilize Rain Bird ESP-LX Series Modular Controllers, known for their user-friendly interface and easy programming. The ESP-LXD controller is expandable to up to 200 stations. Adding an IQ™ Network Communication Cartridge will transform these controllers into IQ Satellite controllers, capable of remote management and reliable connectivity.

Install FS Series Flow Sensors

FS Series Flow Sensors will be used to relay real-time flow data back to IQ-enabled controllers and unlock the ESP-LX Series' Flow Management capabilities. Flo-Watch™, for example, will monitor flow conditions and alert IQ4 of any flow issues. If a problem is identified, the system will automatically shut down compromised areas to prevent water waste. FloManager® will determine optimal irrigation sequences, reducing the amount of time it takes to complete an irrigation cycle and maximizing the usage of available water. This will be especially useful at athletic sites where a large number of fields and zones compete for water.



IQ Central Control

Tap Into IQ™ Intelligence

IQ4 Central Control limits the need for site visits and enables approved users to tap into a controller's functions right from their mobile device. This also allows for the programming and monitoring of multiple controllers from one centralized location. The IQ4 platform offers comprehensive reporting and advanced water management features that can identify issues and notify administrators so that problems are resolved quickly and efficiently.

RESULTS:

Efficient Solutions for a Large School District

Thanks to Rain Bird's innovative products and water-saving technology, this Texan school district can be proud of their irrigation system. The smart, automated system maximizes operational efficiency while supporting the district's aspirations of becoming more environmentally conscious.

