

Benedictine College, Atchison, Kansas

SITE REPORT
EDUCATION SOLUTIONS



Benedictine College uses Rain Bird® products to efficiently manage water use and irrigation remotely

Benedictine College is a liberal arts college nestled on the bluffs overlooking the Missouri River in Atchison, Kansas. The climate is humid and subtropical with temperatures ranging from about 18°F to about 88°F over the course of a typical year. The campus encompasses several acres of varied landscaping and has significant elevation changes.

THE CHALLENGE

With a variety of landscaping including woods, sports turf, common areas, and green spaces, Benedictine College and their water manager, Irrigation Management Company, LLC, need an irrigation system that can efficiently manage the different requirements of each outdoor area. A system that can be modularly expanded as more money becomes available to maintain, improve, and grow the outdoor spaces is critical for the college.

THE SOLUTION:

Tony Shores of Irrigation Management Company will use a highly intelligent Rain Bird irrigation system to centralize irrigation control, optimize irrigation schedules, monitor water flow rates, and manage water use effectively. The system offers endless modular expansions for any future irrigation plans.



Rain Bird Central Control

Core Products Used:

- [Rain Bird® Central Control \(IQ\)](#)
- [1800® Series PRS Sprays](#)
- [ESP-LXME Series Controllers](#)
- [PGA Series Valves](#)
- [ESP-LXD Series Two-Wire Decoder Controllers](#)
- [Flow Sensors](#)
- [5000+ Series Rotors](#)

KEY OBJECTIVES

- ✓ **Enable Remote Irrigation Management**
- ✓ **Utilize Third Party Weather Data**
- ✓ **Effectively Manage Water Use**
- ✓ **Allow Modular Expansion**



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5000+ Series Rotors

RESULTS:

Automated Water Savings

Rain Bird Central Control allows Shores to use weather data from an independent weather source to calculate evapotranspiration (ET) rates using IQ's ET Checkbook. He thus has complete control over the irrigation schedule, which helps save water by delivering the precise amount needed based on weather conditions and plant requirements.

A Modular Solution for the Future

The ability to expand the irrigation system was critical for the college's future irrigation plans. With ESP-LXD Decoder Controller, one controller has the capacity to operate 50 to 200 stations. As the college's budget grows and their irrigation needs change, it will be simple and cost-effective to expand on the Rain Bird intelligent irrigation system they now use.

“ The Rain Bird IQ system is a perfect fit for the college due to its flexibility for additional stations. With the college's current expansion plan, IQ is enabling the college to implement its entire water management system as time and budget allow.

TONY SHORES
WATER MANAGER, IRRIGATION MANAGEMENT COMPANY, LLC

APPROACH:

Install ESP-LXME Controllers & Rain Bird Central Control

These dynamic controllers offer flow sensing and management with a modular station capacity. They offer endlessly customizable programming for water flow. The Central Control system enables Irrigation Management Company to adjust the schedules from any computer, smartphone, or tablet, and notifies them of any excessive water flow to reduce waste and prevent damage to the landscaping.

Utilize 5000+ Series Rotors and 1800® Series PRS Sprays

With unmatched performance and 25 to 50 foot range, the 5000+ Series Rotors provide even coverage and exceptional durability. The 1800® Series PRS Spray Head is the #1 irrigation spray head in the world. It is reliable, durable, and offers a selection of pop-up heights and nozzle combinations. By using both water delivery systems in various areas of the college, Irrigation Management Company is able to customize the flow for every green space on campus.



1800® Series PRS Sprays