



British International School of Chicago, South Loop

British International School (BIS) Chicago Uses Rain Bird® Products to Optimize Campus Irrigation

Located in Chicago's South Loop neighborhood, BIS Chicago is a state-of-the-art campus with a 20,000 square-foot public rooftop park. The park features synthetic turf, shrubs, and trees, as well as a dog run and walking paths.

THE CHALLENGE

The rooftop park at BIS Chicago features numerous curved planting beds that flank the walking paths. The school needs a cost-effective solution for installing dripline flush against the curved beds. They must also select an intelligent control system that can adjust irrigation based on weather conditions such as temperature, wind, and rainfall.

THE SOLUTION:

BIS Chicago has partnered with Aquamist Plumbing and Lawn Sprinkling Co. Inc. to install an on-surface drip irrigation system featuring innovative Rain Bird products. This efficient, low-maintenance solution will include weather-based control features to optimize irrigation schedules and be LEED Silver certified.



XFD Series Dripline

Core Products Used:

- [XFD Series Dripline](#)
- [ESP-ME3 Series Wi-Fi Controller](#)
- [WR2-48 Series Wireless Rain/Freeze Sensor](#)
- [QF Dripline Header](#)

KEY OBJECTIVES

- ✓ Automate Weather Response
- ✓ Maximize Efficiency
- ✓ Conserve Water
- ✓ Minimize Costs



Site Report: **British International School of Chicago, South Loop**

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“ QF Header was a lifesaver. It was really easy to use. It was one of the few products that was built specifically for the irrigation installer. It removed complexity and enabled fast installation of the dripline.

MICHAEL BUTTRON
DESIGNER AND ACCOUNT MANAGER FOR AQUAMIST
PLUMBING AND LAWN SPRINKLING CO. INC.

APPROACH:

Simplify System Installation

The QF Dripline Header eliminates the need to cut, glue, and assemble PVC components onsite. This all-in-one header features preinstalled rotating barbs, guaranteed spacing, and flexible tubing, making it ideal for curved landscapes. Also, flexible XFD On-Surface Dripline overcomes the constraints of traditional drip tubing, which simplifies design and reduces installation time.

Optimize Water Use

XFD On-Surface Dripline also features a pressure-compensating emitter design that provides precise water delivery at the plants' root zones. Simultaneously, the ESP-ME3 Series Controller and WR2-48 Rain/Freeze Sensor ensure that the park's irrigation system only waters when the landscape requires it, eliminating water waste. Highly accurate, weather-based control keeps the plants in optimal condition without overwatering.



ESP-ME3 Series Controller

RESULTS:

A Thriving Rooftop Park

Rain Bird's products saved the Aquamist team an estimated 15–20% of installation time by eliminating the complexity of system design and installation. It's estimated that XFD Dripline, along with the ESP-ME3 Series Controller and WR2-48 Sensor, saves BIS Chicago 30–70% more water, supporting conservation efforts and reducing the school's operating costs.