

IRRIGATION SYSTEM DESIGN BY RAIN BIRD

Wide-ranging experience: residential, public, building and hotel complexes, sports fields and farming.

- The leader in the field of pumping stations and central control systems.
- Rain Bird's comprehensive product range ensures the best technical solutions.
- Design rules based on water-saving principles : RAIN BIRD's designs incorporated the concept of Intelligent Use of Water long before this concept became widespread.

FEATURES AND BENEFITS :

• Irrigation system layout design with :

- The sprinkler and drip position
- The position and size of water supply lines and the main line isolation valves
- The controller, the electric valves, the 24V cable layout
- The water supply point or the pumping station with the required flow and pressure values
- The drawing of the sprinklers and solenoid valves installation

• Detailed bill of quantities with all the products necessary for the project :

- The number and type of sprinklers, of spray heads, with the breakdown by nozzle type
- The linear length of each diameter of pipe, of dripline and of 24V or signal cable
- The number and type of electric valves and valve boxes
- The quantity of each of the main accessories : isolation valves, vents, drain valves, etc
- The type of controller and accessories

• Hydraulic calculations, including:

- Calculations of water supply requirement, flow rate and irrigation run times
- Calculation of the total hydraulic head and of the dynamic pressure
- Calculation for each valve e.g. the number of sprinklers and nozzles and flow rates, of the electric valves, of the pipes and the manual valves



• Option 1 Specification:

This document describes the equipment required and gives detailed technical requirements for installation of: trenches pipes and cables sprinklers, electric and isolation valves pump station technical data control system and accessories bill of quantities

• Option 2 Operating guide:

This guide explains, in laymen's terms, the basic data, assumptions and the methods used for designing the project.

It also provides the information necessary for operating the system and optimizing water management, such as: instructions, exploded views, tips, winterization instructions, start-up instructions.

• Option 3 As-built drawing:

Produced from a marked-up paper drawing containing the necessary information.