



# KnowWater

HIGH GROVE  
PARTNERS



## Irrigation Renovation Service Product Summary

The KnowWater Irrigation Renovation Service is a focused approach to helping you save money and water through managing your irrigation system. Site specific knowledge is used to customize a plan for your property. Products and resources are then matched to insure the renovation meet the goals of the specific plan. The most value is achieved when this plan is coupled with a Water Conservation Survey which is the foundation of the plan. There are many combinations of products available. Below is a basic description of the products that may become part of your plan:

1. **Rain Sensor** – Perhaps the most basic component of any efficient system. This provides a mechanism to turn off your system during periods of precipitation. It is not an “intelligent” product that can determine the amount of precipitation you received and what your landscape needs. This will only turn the system off and not allow it to turn on again until a certain amount of time has passed.
2. **Pressure Regulator** – Most water pressure in Atlanta is very high. While this is generally a good thing, it can be very wasteful as it relates to irrigation. The regulator is installed at the water source and allows the pressure to be reduced to a more optimal range for irrigation use. Another benefit is the increased longevity and reduction in future repairs on your system. This is a more general correction and will not adjust the pressure for different head types (sprays vs. rotors).
3. **Nozzle Upgrade** – The nozzles are the smallest part of an irrigation head but one of the most important. They are the last piece the water touches before releasing to your landscape. Most systems have old plastic, adjustable nozzles that wear over time and do not deliver water in the most efficient manner. Today’s technology allows for a longer wear and a better delivery pattern.
4. **MP Rotator Transformation** – MP Rotators are some of the most advanced adjustments you can make to your existing heads. Beyond nozzle replacement, these Rotators transform your heads into multi-stream rotor that provides truly efficient delivery and reduces the amount of water flowing through the heads.
5. **Pressure Regulated Sprays and Rotors** – A further level of transformation is to replace your existing heads with ones that have a pressure regulator built into them. This enables the pressure to distribute at the optimal rate for the individual head type (sprays vs. rotors).

6. **Drip Conversion** – A great option for newly installed or mature shrub beds. This option enables water to be delivered directly to the roots of the plant. Plastic tubing replaces the existing spray heads and is covered with mulch. The conversion minimizes runoff by slowly delivering water through holes in the plastic tubing. Evaporation is also reduced by distributing water under the mulch and out of direct sunlight.
7. **Soil Moisture Sensor** - The ultimate goal of any irrigation system is to provide the proper amount of moisture for the soil and the plant material. Soil moisture sensors are the only accurate gauge of success. The sensors do provide an “intelligent” option when coupled with a controller that is able to adjust at the sensor’s direction. These can also be used as a more effective “on/off” switch with a rain sensor.
8. **Advanced Controller** – These controllers coupled with various sensors provide a true thinking “brain” for your system. They are capable of measuring not just precipitation, but also humidity, wind, solar radiation and other measurements to determine the amount of evaporation. This calculation enables the system to adjust individual zones to run at the appropriate amount for their condition. This is the most advanced step in the renovation and allows for water savings in the 40% to 50% plus range.
9. **Rain Water Harvesting** – Capturing rain water from building roofs, surface run-off and HVAC condensation is an excellent way to use our resources wisely. We can provide these services to you. We will design a system that can capture water for all or a portion of your irrigation needs.

There is not one solution that is best for all. The KnowWater Irrigation Renovation service will provide the best plan for you. The only decision will be whether to implement it all now or to phase it in over time.

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