



Irrigation Design Services

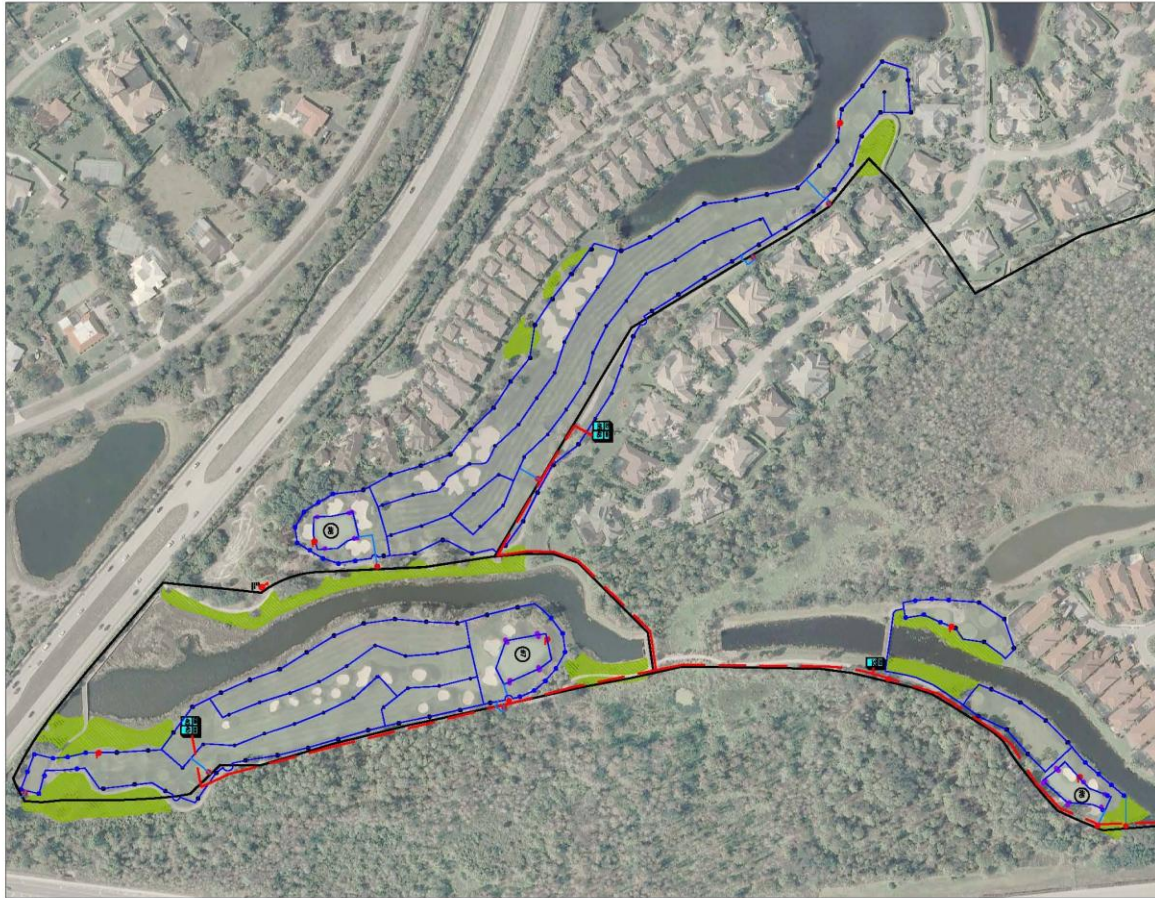
Wesco Turf offers in-house design services using state of art GPS and GIS map technology. Our irrigation design services help you plan for the future by showing you ways to better manage resources, improve your irrigation system's performance and efficiency.

- **Renovation/upgrading of existing system –Replacing or modifying older system can help you meet water management agencies demands while saving costs.**
- **Coverage issues – Too much coverage or not enough: both issues impact your course. Let us provide solutions that will help you improve your course's playability and reduce water usage.**
- **In and Out sprinkler for greens – Time to stop having wet and dry areas due to limited control of your greens irrigation. We can design new in and out sprinkler head systems that will maximize your control, reduce water usage and improve playing surfaces on and around greens.**
- **Mainline distribution system – We can help solve problems with mains such as poor pressure, unacceptable run times or more pump station capacity than the mainline can handle?**
- **Changing Water Resources- Switching to a new water source, connecting to effluent water or changing from a single source to multiple water sources. We can evaluating your system, make recommendations and provide a complete irrigation designs for improved efficiency.**

Irrigation Design Services can start with either a GIS image of your golf course or a GPS As-Built. The first step is the design of the arcs of coverage. Proper sprinkler head spacing assures satisfactory coverage and water/energy savings.



From the arc of coverage plan we created a a custom designed irrigation system. The controllers, lateral pipe, mainline pipe and power wire are routed and sizing on the plan. The pump is sized to meet your water requirements within your water window.



The Irrigation design package includes printed plan sets, specification documents and material's quote.

- Final Plan consist of:
 - Arc of Coverage
 - Pipe layout
 - Wire Layout
 - Hydraulic Flow Zones
 - Programming Page
 - Detail Page
- Specification Documents are customized to meet your needs and requirements.
- A Material's Pricing Quote based on the Irrigation Design plan, will be provided.

We offer a full line of GPS Services including T-Map Creation, Base Feature Map, As-Built Plans, Mechanical Book and Laminated overview of the irrigation system.

- **Our representative will collect the GPS data points of the installed Sprinkler Heads, Quick Couplers, Valves, Controllers and base features such as Greens, Tee, Fairway, Bunkers, Lakes and Cart path.**
- **The GPS data is then applied and an accurate As-Built Plan is produced; locating above and underground components of your Irrigation system. Whether it is creating an as-built for an existing irrigation system or gathering data during construction for a new irrigation system, we can create a valuable tool for managing the resources of your course. The As-Built square footages can be used to accurately calculate distribution of chemicals and fertilizers.**
- **We offer a Mechanical Book and a Laminated Overview product of the completed irrigation system. The Mechanical Book is an individual laminated sheet “Hole by Hole” showing sprinkler heads, valves, pipe, wire, splicing and controllers. The Mechanical Book includes a CD, which can be used to print additional copies of the final plans and/or the individual “Hole by Hole” pages. The mechanical book is a great tool for use in day to day operations on the course.**
- **T-Map can enhance your SitePro Computer capabilities. Let us gather the data needed to put your irrigation system control in T-Map and in the palm of your hand with Toro’s Prism unit.**

The cost associated with our GPS Design and T-Mapping services are based on your particular site and can be quoted upon request. Contact Wesco Turf’s Irrigation Sales Team for further information and a customized quote

Example of Mechanical Book

Highland Lakes

Blue Holes:

Hole One-Blue: Satellite #011
Hole Two-Blue: Satellite #013
Hole Three-Blue: Satellite #013
Hole Four-Blue: Satellite #014
Hole Five-Blue: Satellite #014
Hole Six-Blue: Satellite #015
Hole Seven-Blue: Satellite #015
Hole Eight-Blue: Satellite #012
Hole Nine-Blue: Satellite #012

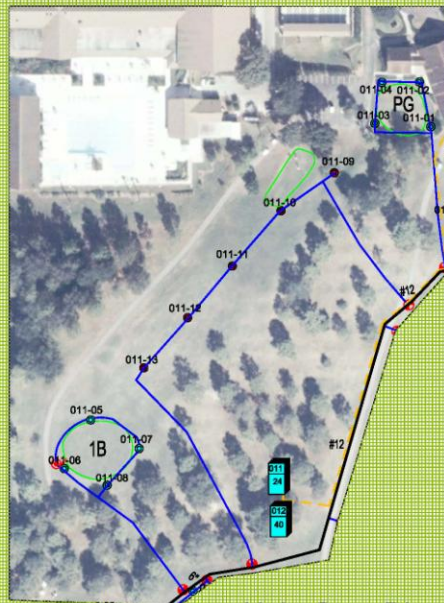
White Holes:

Hole One-White: Satellite #001
Hole Two-White: Satellite #008
Hole Three-White: Satellite #009
Hole Four-White: Satellite #010
Hole Five-White: Satellite #010
Hole Six-White: Satellite #009
Hole Seven-White: Satellite #007
Hole Eight-White: Satellite #007
Hole Nine-White: Satellite #008

Red Holes:

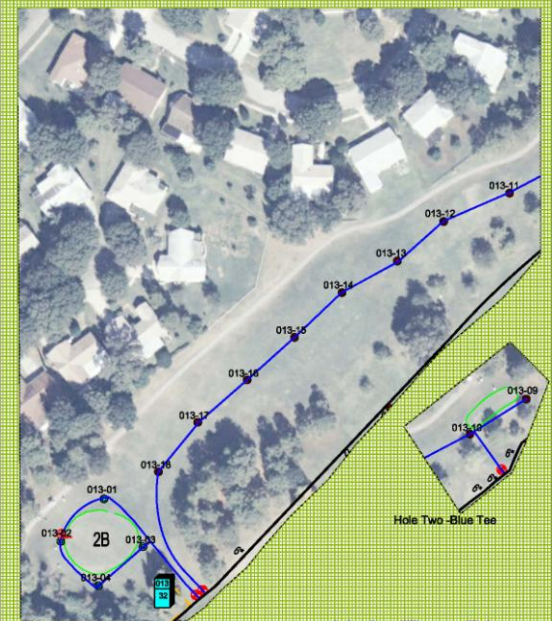
Hole One-Red: Satellite #001
Hole Two-Red: Satellite #004
Hole Three-Red: Satellite #003
Hole Four-Red: Satellite #004
Hole Five-Red: Satellite #005
Hole Six-Red: Satellite #006
Hole Seven-Red: Satellite #006
Hole Eight-Red: Satellite #002
Hole Nine-Red: Satellite #002

Highland Lakes



Hole One-Blue
and Putting Green

Highland Lakes



Hole Two-Blue

Water Audits and Water Usage

- **Water Audits- Our Certified Water Audit Service Technician can field test your current irrigation system and accurately produce a Water usages report to evaluate problem areas and irrigation efficiency.**