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### SAMPLE PROPOSAL

## EXISTING SPRINKLER SYSTEM ASSESSMENT

- (1) Pre-Assessment
  - ✓ Consult with the superintendent to determine the most suitable time of year to conduct the assessment
  
- (2) Assessment Areas
  - a. Background Information
    - ✓ Consult with the superintendent when the system was installed, who installed it, and what equipment was originally installed.
    - ✓ Review any significant changes, additions or repairs made since the original installation
    - ✓ Determine the yearly cost to adjust and repair the existing irrigation system
  
  - b. Sprinklers and Swing Joints
    - ✓ Check the sprinklers for consistency of spacing, rotation speed and operating pressure
  
  - c. Pipe and Fittings
    - ✓ Conduct a hydraulic analysis of all mainline piping to calculate the water velocity and pressure loss throughout the golf course during a typical night time watering cycle
  
  - d. Valves and Valve Boxes
    - ✓ Determine the amount, location and condition of all types of valves used on the golf course.
  
  - e. Field Controllers and Wiring
    - ✓ Check the field controllers for age, condition, proper grounding and lightning protection
    - ✓ Check the field controllers for proper 120 volt wire sizing, wire connections and amperage draw during typical night time watering
  
  - f. Central Irrigation Computer
    - ✓ Determine if the superintendent's irrigation schedule matches the hydraulic capabilities of the mainline piping system
  
  - g. Pumps and Pump Controls
    - ✓ Evaluate the methodology used in controlling the pumps operation, and sequencing
  
- (3) Report
  - a. Conclusions
    - ✓ Highlight the positive and negative aspects of the existing irrigation system
  
  - b. Recommendations
    - ✓ Prioritize short and long term objectives to upgrade or replace the existing irrigation system
    - ✓ Estimate budget costs for each objective