New Meets Old: HDPE at The Country Club
Bill Spence
Director of Grounds
June, 1985
Tonto Irrigation 1985
January, 2008
Age and Rust
Major Decisions to be Made in 2008 with US Am Scheduled in 2013

- **Goals**
- **Budget**
- **Scope**
- **Designer and Contractor**
- **Equipment**
- **Schedule**
- **Relationship to Golf Calendar**
- **Future Course Changes**

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Goals

- Longevity and Integrity
- Enhanced Coverage
- Enhanced Controls
- Improved Efficiency
- Installation Friendly
- Minimize Interference with Golf
- Maintenance Reasonable
- Integrated Installation
- Reduce Potential Alteration $$
Participants and Equipment

- Aqua Agronomic Solutions
- 3000 GPM Flowtronix VFD Pumps
- DAF Services
- Tanto Irrigation
- Toro &Turf Products Corporation
- Toro Delivery and Controls
- Hanse Golf Design
- DR11 HDPE
Why HDPE???

- Fusion vs Gaskets, Glued Fittings
- Durable for Convenient Installation
- Resists Frost Heaving Related Issues
- Self Restrainted and Thus No Thrust Blocks
- 50-100 Year Life Expectancy
- Less Surge Related Fatigue
- Environmentally Sensible
Pumphouse Replacement
Concrete Wet Well
Creating Multi-Purpose Facility Makes Selling the Program Easier

New Pump House Added Benefit
August, 2010
Organized For Efficiency and Success
Adapting for Difficult Conditions
Tanto Fusion Equipment
TCC Fusion Equipment

Honda Generator  Friamat Processor

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TCC Fusion Equipment

McElroy Heater

McElroy Pit Bull
1985 System

- Aging Pumping System and Rust
- Deteriorating Metal Fittings
- Operational Issues with Valves
- Presence of Thrust Blocks
- Aging Delivery Equipment
- Less Efficient Control System
- Less Coverage
- 10 Hour Water Window
2010 System

- Maximized Life of Installed Pipe
- No Thrust Blocks
- Tremendous Flexibility
- Great Installation in Rock
- Fewer Fittings
- Minimized Metal Components
- Easy Add-Ons
- 3-4 Hour Water Window
- Expanded and Efficient Coverage
- No Leaks !!!
Accomplishments

- Project Completed On Time
- Under Budget
- Great Partnership Programs Developed
- Positive Public Relations with Members
- No Interference with Golf
- No Interruption to Normal Ops
- Enhanced Efficiency and Control
- No “Daylight” Irrigation Programs
- Enhanced All-Around Reliability
- No pipe or Fitting Failures
2013 OPENS THE DOOR TO 2022