

## Greenberry Irrigation District

### Project Description

Bid request for GID Pipeline Control System Phase 1

Due June 15, 2009, awarded June 30, 2009, work to be completed by October 15, 2009

See cover letter for bid rules.

Greenberry ID will install its pipeline and pump control and data collection system in two phases. This Phase 1 bid request is for a base station and software, pump control, some water level controls, flow metering, and installation. GID will supply Seametric flow meters (high frequency pulse signal), valves and actuators unless otherwise noted or agreed by negotiation.

Software must be supported widely, current, scalable, deliverable, documented and editable. Data set open and accessible. Detail software packages by brand and version to be used in bid. Recovery, manual override and backup systems integrated into design. Some stations will be remote and require solar powered systems, other stations have power available.

- 1) Base Station and Repeater: Power available. Located north-centrally in the district, will likely require a repeater to cover south end of district. Base station will be a radio-telemetry system with secure web interface, and exercise control and data access anywhere there is a web browser. Manual back-up and override systems will be provided with documentation and operating instructions.
- 2) Willamette Pump Monitoring and Control: 480 3 phase power available. Remote monitoring of operating factors such as pressure, phase, flow, etc; control of three 125 hp pump motors and three VFDs. Monitor and control a 7.5 hp fish screen cleaning pump. Communicate with base station, possibly through a repeater.
- 3) Grimsley Pump Monitoring and Control: 480 3 phase power available. Remote monitoring of operating factors such as pressure, phase, flow, etc; control of one 200 hp pump and VFD. Communicate with base station, possibly through a repeater.
- 4) Winkle Lake Outfall Monitoring and Control: 480 3 phase AC power available 100 yards away or solar as options. Automate based on demand and lake level. Control and monitoring of pipeline valve into lake. Lake level remote monitoring station. Remote monitoring of flow of weir in channel at lake outlet.
- 5) Whittaker Lake Monitoring: No power available. Monitor lake level. Communicate with base station, possibly through a repeater.
- 6) McBee Lake: 480 3 phase power available, or solar option. Monitor lake level. Communicate with base station, possibly through a repeater.

- 7) Turn-Out Stations (10 or more): Some will have power available, some will require solar panel power supplies. Monitoring and data collection integration to system. Meters provided by district. Some will involve controlling a turnout valve. Detail each option:
- a) Data collection only from Seametrics flow meter, solar powered.
  - b) Data collection only from Seametrics flow meter, on site power, usually 480 3 phase.
  - c) Data collection and valve control (actuator provided by district), solar powered.
  - d) Data collection and valve control (actuator provided by district), on site power, 480 3 phase.

Integration, Installation, Documentation: Include and detail mobilization, design, documentation, installation and acquisition costs for each task. Include site drawing, detailed wiring diagram and product descriptions and warranties.

Describe availability and level of support you will provide post-project, or your contingency plan for doing so.

Site visits prior to bidding are welcomed and encouraged. Site visit mandatory prior to bid award. Please use attached spreadsheet to submit your bid. Feel free to call or email with any questions.

Thank you,

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