

# Project Profile

## Omohundro Water Treatment Plant Omohundro, Tennessee



*The main entrance to the filter building. Filters and their controls are lined up on both the left and right.*



*One of the filters showing the ultrasonic level transmitter that signals high and low levels to the filter controls.*



*The main floor of the pump station building.*



*A rare Tennessee snowstorm highlights grit tanks (on the left) and flocculators.*



*One of the older DC motors in the pump station building. Revere's equipment is installed in the room in the rear of the photo.*



*The river side of the pump station building showing the piping from the river and to the filter plant.*

# Omohundro Water Treatment Plant

## Nashville, Tennessee

**Owner:** City of Nashville, TN

**Contact:** Gilbert Nave / Tommy Melton (Plant Mgr. / Asst. Plant Mgr.)  
(615) 862-7243

**Engineer:** Gresham Smith and Partners / I. C. Thomasson Associates, Inc.

**Contact:** Dale Mosley - Mark Williams / Larry Stovall  
(615) 770-8100 / (615) 346-3400

**Description:** The third phase of ongoing control system modernization of the automation for the complete plant. Revere provided Phase I and Phase II.

A. Phase III consists of two parts:

1. Chemical controls utilizing six Allen-Bradley SLC500 PLCs to control and monitor the chemical storage, preparation and dosage.
2. Pumping station controls, both high and low service pumping, has extensive instrumentation for monitoring vibration, temperature, power, etc. to protect and control motors and automate the flow control using Allen-Bradley Contrologix PLCs and Panelview (ControlNet communications.) Multilin interface

B. Extensive field instrumentation added to accomplish new features includes pressure transmitters, magnetic flow meters, chlorine residual analyzers and streaming current monitors.

C. Computer and Information System including:

- Six Dell computer workstations communicating via Ethernet LAN using Windows 2000 operating system
- Historical and Alarm printing over Ethernet
- Wonderware Intouch graphical user interface software
- SCADAalarm

D. Video Surveillance System

**Accepted:** January, 2002

**Approximate Value:** \$1,100,000.00