

**Water Treatment Plant**  
**Atoka Rural Water District No. 4**  
**Atoka, Oklahoma**  
Poe & Associates, Inc.

**Construction Cost:** \$5.7M

**Completion:** 2011

**Description:** Originally constructed in 1993, this water treatment facility was designed to treat water from the McGee Creek Reservoir at a rate of 1.5 MGD. The facility includes an on-site above ground clearwell with a capacity of 508,000 gallons and furnishes water to the Rural Water District No. 4 and the town of Stringtown. The construction cost for this original phase was \$1.15 million. In 2001, the Rural Water District contracted with Poe & Associates once again to design an expansion to the original water treatment plant, with an additional treatment unit that would increase the plant capacity to 2.0 MGD. The facility now provides improved service to the existing system and additional service to a new Rural Water District in Choctaw County, Oklahoma.



The more recent expansion project consisted of a new membrane filtration water treatment plant and a partial retrofit of the existing water treatment plant. The project specifically included the following features: new membrane filtration units, conversion of existing clarifier into a pre-sedimentation basin, installation of new high-service pumps and pipe gallery, removal and disposal of sludge from the existing sludge-holding lagoons, and repair of the existing clearwell.

**Project Team:** Robert Williams, PE (Principal-in-Charge)  
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