



Date: August 22, 2013

To: Water Utility Board

From: Al Larson, PE, BCEE

**Re: Request to Advertise for Professional Services Proposals**

**Project: Master Planning and Infrastructure Management Planning**

### General Scope

Madison Water Utility (MWU) is seeking to advertise to receive professional services proposals from interested and qualified firms for the updating of the Utility's Water Master Plan and its Infrastructure Management Plan. Professional engineering services shall include but may not be limited to planning, public participation support, distribution system computer modeling, capital improvement program development, and financial planning for the Utility's Water Master Plan. This work will integrate and expand on the work completed by the East Side Water Supply Project in 2011 and 2012. The work shall also include facility evaluation, pipe system rating, asset management, and budget planning for the Utility's Infrastructure Management Plan.

### Background

MWU completed its first Water Master Plan in 1964 and updates this plan every 6 to 8 years. The full plan was last updated in 2006. The City bond ordinance requires that the Utility routinely have its long range planning reviewed by an independent professional. The East Side Water Supply Project looked at system needs within Pressure Zone 6E (east of the Yahara River and north of Buckeye Road) in 2011 and 2012. This update will incorporate that study and update the remainder of the City.

MWU developed its first Infrastructure Management Plan in 2005. This would be the first comprehensive update of that document and would continue to build a foundation for a more comprehensive asset management program.

### Staff Availability

MWU Engineering staff does not have the expertise in distribution system computer modeling to efficiently complete this project. MWU Engineering staff also does not have the time available to complete this work. It is estimated that the effort required to complete these two updates would be a full time employee for close to two years. MWU will work closely with the selected consultant and guide and shape the work. MWU staff will lead the public participation effort.

### Budgeting and Estimated Cost

Total project budget for the Water Master Plan update is \$300,000. The total project budget for the Infrastructure Management Plan update is \$200,000. Funds are provided in the Capital Budget.

### How the project relates to the MWU mission

Adequate long range planning and infrastructure renewal is a core value of MWU. Capital improvement planning and sustaining financial viability for future generations is essential to Utility operations.