



Date: July 22, 2014
To: Water Utility Board
From: Al Larson, PE, BCEE
Pete Holmgren, PE
Re: **Request to Advertise for Engineering Design Proposals**
Project: **Unit Well 12 Conversion to a Two Zone Well**

General Scope

Madison Water Utility is seeking to advertise for proposals from interested, qualified firms to provide professional engineering services for the upgrade of Unit Well 12. Well 12 is located at the intersection of the Beltline Highway and South Whitney Way. Professional engineering services shall include but not be limited to planning, alternative development, site layout, design, coordination, and construction administration for the upgrade of the facility on the existing site.

Background

The 2006 Water Master Plan recommended that Well 12 be converted to a two zone well. This conversion will provide operational flexibility and reliability to the west side supply system. Pumps and a pressure reducing valve will be added to the Well 12 facility to move water from Pressure Zone 7 to Pressure Zone 8 or from Pressure Zone 8 to Pressure Zone 7.

The facility work described here will coincide with a separate Public Works contract for the water main improvements, which will connect a pipeline from the facility to Pressure Zone 8.

MWU Engineering staff request permission to advertise for qualified applicants to submit proposals to develop drawings, specifications and contract documents to complete this upgrade and correct an identified deficiency in the system.

Staff Availability

MWU Engineering staff does not have the expertise in electrical, structural, and HVAC engineering required to complete this project. MWU will work closely with the selected consultant to ensure project objectives are met.

Estimated Cost

Total design and construction project budget for the upgrade of Unit Well 12 is established at \$600,000.

Project and MWU Mission

This project mitigates potential distribution and storage deficiencies identified in the Master Plan between pressure zones. Meeting these objectives supports MWU's core mission to provide water to customers for consumption and fire protection and helps MWU achieve its goals for adequate water quantity, operational optimization and reliability, and infrastructure stability.