

**Metropolitan Domestic Water Improvement District
Board of Directors Meeting**

February 12, 2018

Old Nogales Highway Mainline Replacement

Synopsis

The Board of Directors is requested to authorize utilizing WestLand Resources, Inc. (WestLand) to perform professional engineering services for the design of the Old Nogales Highway Mainline Replacement under the Professional Services Agreement for Miscellaneous Design Services.

Background

The District's Utility team have repaired several failures of the water main along Old Nogales Highway in the Metro Southwest – E&T service area. Currently this water main is a combination of 4-inch Asbestos-Cement and PVC water main, and failures appear to be recurring due to poor pipe material and a lack of proper bedding material and compaction. This alignment is a critical section of the loop from the wells to customers in the Metro Southwest – E&T system and is necessary to ensure reliable service.

Issues

Due to increasing failures of the existing waterline, it is desirable to complete the design within Fiscal Year 2018, in advance of construction in later budget years, as prioritized among other District projects. To better facilitate construction of this mainline replacement, staff has proposed three separate phases as part of the design effort. These include: 1.) Existing E&T Well #22 north to McKain Road, approximately 850 linear feet (LF), 2.) McKain Road to Frasier Road, approximately 1,000 LF, and 3.) Frasier Road to the northern extent of the existing service, approximately 850 LF, for a total replacement of approximately 2,700 LF.

The proposed base design services include rectifying and confirming the existing survey along the eastern half of Old Nogales Highway for a portion of the project limits, which was completed previously by another consultant, performing an additional survey along the east half of Old Nogales Highway for the remaining portion of the project, civil design, including plans, and engineer's opinion of probable construction costs, and design report. The fee for the base design services is \$30,900. Additional services, including survey along portions of the west half of Old Nogales Highway and potholing to determine the location and depth of existing utilities, are proposed and will only be utilized if needed. As-needed additional services are estimated at approximately \$14,000 (\$10,000 for additional survey and up to 5 potholes at \$800 each).

The requested design effort is not currently funded in the approved Capital Improvement Program (CIP), however, a portion of the funding for the Regional Transportation Authority (RTA) La Cholla Boulevard Waterline Relocation will need to be shifted to Fiscal Year 2019 due to the delay in timing of the associated roadway improvements. As a result, the Old Nogales Highway Mainline Replacement was presented to the Finance Oversight Committee on January 22, 2018 and recommended for inclusion in the Capital Improvement Program (CIP) for Fiscal Year 2018 as part of the mid-year budget review at a projected expenditure of \$50,000. The Board of Directors will consider the possible modification to the CIP for Fiscal Year 2018 during its review of the mid-year budget on February 12, 2018.

Recommendation

Staff recommends, subject to approval of the mid-year budget, the Board of Directors approve utilizing WestLand Resources, Inc., under the Professional Services Agreement for Miscellaneous Design Services to perform professional engineering services related to the design of the Old Nogales Highway Mainline Replacement in the amount of \$30,900 for base design services plus \$14,000 for as-needed additional services.

Suggested Motion

I move to approve utilizing WestLand Resources, Inc., to perform professional engineering services related to the design of the Old Nogales Highway Mainline Replacement in the amount of \$30,900 for base design services plus \$14,000 for as-needed additional services via the Professional Services Agreement for Miscellaneous Design Services.

Respectfully submitted,

Sheila M. Bowen, P.E.
District Engineer

I concur with the above-noted recommendation.

Respectfully submitted,

Joseph Olsen, P.E.
General Manager