

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

March 14, 2016

**Award of the Construction Contract for the
Casas Adobes Estates Mainline Replacement**

Synopsis

The Board of Directors is requested to award a construction contract to INNOVA Engineering, LLC in the amount of \$461,267.60 (Alternate B DIP Pipe) for the construction of the Casas Adobes Estates Mainline Replacement.

Background

The 1994 Water System Management Plan (WSMP) identified the need for mainline replacement projects to replace aging and undersized water distribution mains to improve reliability and fire flow protection in various areas throughout the District service area. The Casas Adobes Estates Mainline Replacement project is a continuation of that effort that will bring much needed improvement and reliability to the project area which is in the Casas Adobes Estates Subdivision and more particularly along the roadways of Casas Adobes Drive, Nanini Drive, and Andrea Doria Drive. In 2008, the Board of Directors approved the construction contract for the Oracle Road Corridor Mainline Replacement project. That project included the replacement of a significant portion of the Casas Adobes Estates Subdivision waterlines, and increased the distribution system's ability to convey a higher volume of water south towards Orange Grove Road but did not address all of the future needs for the area. In the time since the Oracle Road Corridor project, the project area has been experiencing an increasing number of waterline failures that are most likely due to improper bedding of the pipe when these lines were first installed in the early 1960's. Failures can occur when pipe, especially Asbestos Cement and PVC, are laid directly on and around large rocks, which over time cause a gradual wearing on the pipe due to movement caused by varying pressure.

Issues

The District conducted a call for bids for the construction of the Casas Adobes Estates Mainline Replacement on January 19, 2016. The Notice of Bid was published in the Daily Territorial on January 19, 20, 21, 22, & 25, 2016. A public bid opening was held on February 24, 2016.

Thirteen (13) contractors obtained the bid documents with Eight (8) contractors submitting actual bids. The results of the submitted bids are as follows:

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Submitted Bids

<u>Contractor</u>	<u>Total Bid Amount</u>	
	<u>Bid Alternate A</u> PVC	<u>Bid Alternate B</u> DIP
Tricon Contracting, Inc.	\$ 1,206,810.00	\$ 1,263,400.00
Borderland Construction Co., Inc.	\$ 771,984.00	\$ 834,185.00
KE&G Construction, Inc.	\$ 710,023.61	\$ 775,301.26
Rasch Construction, Inc.	\$ 643,991.32	\$ 707,065.62
NAC Construction	\$ 631,445.00	\$ 696,587.00
Kinkaid Civil Construction, LLC	\$ 612,823.75	\$ 678,057.25
Marcon Excavating & Construction, Inc.	\$ 561,191.00	\$ 614,672.00
INNOVA Engineering, LLC	\$ 399,911.60	\$ 461,267.60
Engineer's Estimate	\$ 581,051.62	\$ 610,661.62

The low bidder, INNOVA Engineering LLC, is a local contractor with several years of experience in the Tucson area. Innova Engineering LLC has satisfactorily completed several infrastructure projects for the District: these projects include the La Canada Waterline Relocations, Ina Road to Calle Concordia Drive & La Canada 'C' Zone Transmission Main project, the Oracle Foothills #6 Mainline Replacement project, the Windermere Street Interconnection project, the Magee Road, Shannon Road to La Canada Drive Waterline Relocations project, the Cortaro Farms Road/Magee Road, Shannon Road (South) to Thornydale Road, Waterline Relocations and Shannon Road Transmission Main (Phase 1) and Cortaro Farms Road/Magee Road Reclaim Waterline project, the Orange Grove Road, Camino de La Tierra to La Cholla, Waterline Relocations and Magee Road, La Canada Drive to Oracle Road, Waterline Relocations (Phase III) project, the Hub 1A Well Site Improvements project for the District, and most recently the Freer Road & Camino Del Sur Interconnection.

The second low bidder was Marcon Excavating & Construction, Inc. Marcon is a local contractor who has done work previously for the District on several private development projects such as the La Cholla Professional Park, 6440 N. Corona Road Waterline Extension, the Casas Adobes Shopping Center, and recently for the District on the La Cañada Drive Water System Adjustments.

Due to the significantly high amount of rock in the project area, District staff is recommending that ductile iron pipe (DIP alternate) be awarded. Staff feels that DIP has an advantage over the PVC material when installed in rocky material due to DIP's higher abrasion resistance and due to the fairly minimal cost increase (approximately 15%) over the PVC alternative.

Funds for the construction of this project are included in the current Fiscal Year 2016 budget.

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Recommendation

It is recommended that the Board of Directors award the construction contract for the Casas Adobes Estates Mainline Replacement to INNOVA Engineering, LLC in the amount of \$461,267.60.

It is also recommended that the General Manager be authorized to approve the following changes to the construction contract: 1) allocate additional funding a cumulative amount not to exceed \$20,000.00 (approximately 5% of bid) and 2) increase the original construction contract term a cumulative amount not to exceed sixty (60) calendar days. Approval of this authorization will allow work to proceed promptly should any unforeseen conditions be encountered during construction. Any changes in excess of the above limits will be submitted to the Board of Directors for approval.

Suggested Motion

I move to award the construction contract for the Casas Adobes Estates Mainline Replacement to INNOVA Engineering, LLC in the amount of \$461,267.60, and to authorize the General Manager to approve the following changes to the construction contract: 1) allocate additional funding a cumulative amount not to exceed \$20,000.00 and 2) increase the original construction contract term a cumulative amount not to exceed sixty (60) calendar days. Any changes in excess of the above limits will be submitted to the Board of Directors for approval.

Respectfully submitted,

Charlie A. Maish, P.E., R.L.S.
District Engineer

I concur with the above-noted recommendation.

Respectfully submitted,

Joseph Olsen, P.E.
General Manager