



PARADISE IRRIGATION DISTRICT

6332 Clark Road, Paradise CA 95969 | Phone (530)877-4971 | Fax (530)876-0483

"Paradise Irrigation District (PID) is dedicated to the business of producing and delivering a safe, dependable supply of quality water in an efficient, cost effective manner with service that meets or exceeds the expectation of our customers."

Please consider how this agenda item relates to our mission.

TO: Board of Directors

FROM: Neil Essila, Assistant Engineer

DATE: May 11, 2018

RE: Almond Street Water Main Replacement Project - Engineering Design Proposal

Background

The Town of Paradise is preparing to construct three projects in the 'downtown' area bounded by Elliott Road on the north, the Yellowstone Kelley Heritage Trailway on the east, Pearson Road on the south, and Skyway on the west. One project will reconstruct Almond Street, including full depth reclamation of the road section, storm drain, curb, gutter and sidewalks. Another project will involve the same type of reconstruction of side streets in the area including Birch Street, Black Olive Drive, Fir Street, and Foster Road. The third project will involve the construction of a transit station on Birch Street at Black Olive Drive. The Town's design engineer for these three projects is Mark Thomas & Company.

In addition to the Town's construction projects an underground utilities district will be formed and all the wire utilities that are currently overhead will be buried. This project will affect the previously mentioned streets as well as Cedar Street and Willow Street.

PID has already replaced all the old water mains within the project area with the exception of the mains on Almond Street, Birch Street, and Black Olive Drive between Cedar Street and Fir Street. The Birch Street main and the Black Olive Drive main segment are each about 400 feet in length and these two mains are slated to be replaced by District forces during the 2019 construction season. District crews will also have to relocate a number of appurtenances within the project area to accommodate the Town's project including fire hydrants and water meters.

District staff has investigated the condition of the water main on Almond Street. The existing Almond Street pipeline has experienced a number of leaks; several have been repaired within the last few months. A review of valve depths suggests that some hydrant laterals in the project area may be too shallow to accommodate the full depth reclamation work. It is likely that some meter service laterals are also too shallow and could end up damaged during construction. Finally, the excavation and recompaction

work to be done during the Town's project will undoubtedly subject this old steel main to stresses that could significantly promote the formation of leaks. Staff has concluded that the Almond Street water main should be replaced before the reconstruction of Almond Street.

Discussion

PID staff has considered how to facilitate replacement of the Almond Street water main. The Town has stated that PID's Almond Street construction must be complete by July 30, 2019. District field crews will not have the time to complete the Almond Street main replacement in time to meet this deadline considering the other main replacements to be done on Birch Street and Black Olive Drive, as well as relocation work to be done on the other streets in the project area. The Almond Street water main construction project will need to be outsourced. Detailed plans and specifications will need to be prepared for this contract construction project.

There will be a significant amount of work that will occur in the Almond Street project area. Considering that coordination of the various construction plans is critical to a successful outcome, and that time is limited to complete the District's work before the deadline, staff has communicated with Mark Thomas & Company regarding PID's design work. They have submitted a proposal for the District's consideration.

Because Mark Thomas & Company did the site survey and already have CAD models of the existing site, as well as the proposed improvements, they are ready to prepare a water main design with a minimum of preliminary effort. It is our belief that they can provide a design more quickly (absent the RFP process), and at a competitive cost. There is also the considerable advantage that the preparation of the water plans on the same platform as the other civil works will provide coordination that will avoid the potential conflicts that could arise from having designs prepared in different engineering offices.

The following is requested:

"Accept the proposal for professional engineering services from Mark Thomas & Company, Inc. for engineering design services for the Almond Street Water Main Replacement Project, for a not-to-exceed amount of \$35,000 and direct the Interim District Manager to execute the professional services agreement following review by legal counsel", or provide direction to staff for negotiating changes to the proposal.



May 11, 2018

Mr. Neil Essila
Paradise Irrigation District
6332 Clark Road
Paradise, CA 95969

RE: Almond Street Water Main Rehabilitation – Budget for Design Services

Dear Mr. Essila:

Per our discussions this week, we have prepared a budget estimate to prepare construction documents for the subject project. Based on the samples provided and the fast track schedule involved, our proposed fee for design services is **\$35,000**. In general, our work will include the following tasks:

1. Prepare Construction Plans – Consisting of a Title / General Note Sheet, Survey Control Diagram, Plan and Profile Sheets – 6 estimated, and Details – 3 Estimated
2. Engineers' Estimate (Draft and Final)
3. Technical Specifications (Draft and Final)

Based on our current workload, we anticipate the construction documents can be ready for advertisement in August 2018. This will be well ahead of the Town's streetscape project in this area. Please feel free to contact me if you have any questions.

Sincerely,

MARK THOMAS

James Pangburn
Senior Project Manager
Attachments (None)

