

DISTRICT ENGINEER'S REPORT
September 29, 2006

To: PBCSD Board of Directors

From: Michael Niccum, District Engineer

Subject: **Fourth Priority Fire Protection Pipeline Replacement Project**

RECOMMENDATION

It is recommended the Board of Directors approve plans and specifications for the Fire Protection Water System Improvements - Fourth Priority Pipeline Replacement Project and authorize an invitation to bidders.

SCOPE OF PROJECT

PBCSD has an ongoing capital improvement program to improve the California-American Water Company (Cal-Am) water distribution system within the District to provide increased fire protection benefit. Approximately 16,000 feet of water main lines were identified for the fourth priority project by engineering analysis of the computer hydraulic model of the Cal-Am water distribution system in Pebble Beach based on the lowest ratio of existing fire hydrant flow to the fire code flow requirements.

The fourth priority pipeline replacement project is identified in the two attached exhibits and includes installation of 1,200 feet of 12-inch main line on Arroyo Drive, 4,500 of 8-inch water line on Rodeo Road, Ocean Road, Stevenson Drive, Whalers Way and San Carlos Road, 1,400 feet of 8-inch water main on Arroyo Road and Colton Road, 3,800 feet of 8-inch main line on Spruance Road, Midwood Road and Del Ciervo Road and 1,400 feet of 8-inch water line on Sombrero Road, Matador Road, San Carlos Road and Broncho Road in the base bid project. Optional bid items include installation of 1,800 feet of 8-inch water main on Ronda Road and 1,800 feet of 8-inch line on Cantera Court and Ronda Road. Construction costs are estimated to be \$1,500,000 for the base project and \$450,000 for the optional items.

SUMMARY OF ISSUES

The first five project elements listed above will be included in the base bid price and the last three elements will be bid as optional items. The low bid will be determined based on the base bid price and the District will have the option to include any of the optional bid items

in the construction contract. This approach is recommended to allow the District the flexibility to include additional work in the construction contract if the bid prices are lower than the engineer's cost estimate due to the competitive construction market in the winter.

A copy of the plans and specifications prepared by E2 Consulting Engineers for the proposed project is available for review in the boardroom. It is estimated a recommendation to award the construction contract will be made at the December Board meeting and construction work on the project will begin in January.

An allocation of \$1,750,000 for fire protection water system improvements is included in the 2006-07 fiscal year budget. E2 has earned \$36,591 to date of the \$249,760 budget for engineering design and construction support services.

C: Gary Hofsheier, California American Water

Attachment: (2) Water System Exhibits

Agenda Item No. 13