

- **Board of Directors**
Engineering and Capital Programs Committee

September 9, 2008 Board Meeting

7-2

Subject

Authorize change order for the Sepulveda Feeder Repairs construction contract (Approp. 15441)

Description

This action authorizes the General Manager to execute a change order on the recent construction contract for urgent repairs on the Sepulveda Feeder. The contractor was directed to perform the additional work during the Sepulveda Feeder shutdown of June 21-28, 2008, when differing site conditions were encountered which required immediate action. As a result, board authorization is requested to reimburse the contractor for urgent work already performed. No additional funds are required in this action, as sufficient funds have previously been appropriated.

Background

The Sepulveda Feeder is a 96-inch diameter pre-stressed concrete cylinder pipeline (PCCP) which was installed in 1970. In March 2008, electromagnetic inspections of the Sepulveda Feeder identified four distressed 20-foot-long pipe segments. The pipe segments are located in the City of Los Angeles, Culver City, and Los Angeles County. The repair plan consisted of replacing the four distressed pipe segments with welded steel pipe.

In June 2008, Metropolitan's Board ratified award of a \$1.63-million construction contract to Kiewit Pacific Company for urgent repairs on the Sepulveda Feeder. Repairs of the four distressed pipe segments were completed on July 8. However, during the shutdown, unanticipated conditions were discovered that required the work plan to be modified at one location, requiring additional work to be performed by the contractor.

Metropolitan's Administrative Code authorizes the General Manager to execute change orders on construction contracts for an amount not to exceed five percent of the initial amount of the contract or \$250,000, whichever is greater. For change orders that exceed the General Manager's authority, board authorization is required. Metropolitan's construction contracts are typically completed with final change order amounts falling well within the General Manager's authority.

Sepulveda Feeder Repairs Change Order (No funds required)

On May 29, 2008, the General Manager awarded Contract No. 1662 to Kiewit Pacific Company, in the amount of \$1.63 million, to perform urgent repairs to the Sepulveda Feeder. The construction was successfully completed on schedule, but a number of issues were encountered in the field that required change directives to be issued to the contractor in order to complete the repairs within the shutdown window. Examples of these changes include revisions to traffic control plans, relocation of water and gas lines that interfered with the repairs, and changes to the contractor's start date at several locations. The most significant issue occurred at the repair site in Culver City (See [Attachment 1](#)). Specifically, high groundwater levels were encountered that would have required the installation of significantly more robust shoring equipment to withstand the additional water pressure. This approach was not selected since the redesigned shoring system would have extended the shutdown and because new equipment would need to be procured. In order to minimize the duration of the shutdown, the contractor was directed to complete the repair of this pipe segment using carbon fiber technology instead of the planned steel liner. The recommended change order will reimburse the contractor for additional mobilization and material procurement associated with the carbon fiber repairs.

The total value of all changes required to complete the work is \$385,000, including \$310,000 for the carbon fiber repair. This total has been negotiated with the contractor; and upon execution of the recommended change order, the contract will be closed out.

This action authorizes an increase of \$135,000 in the General Manager’s authority to execute change orders with Kiewit Pacific Company, from \$250,000 to a new aggregate total not to exceed \$385,000. No additional funds are required in this action, as sufficient funds are available within the existing appropriation.

The Sepulveda Feeder Repairs project has been evaluated and recommended by Metropolitan’s Capital Investment Plan Evaluation Team.

This project is consistent with Metropolitan’s goal for sustainability by enhancing the reliability of the existing conveyance and distribution system in order to maintain reliable water deliveries in the future.

Policy

Metropolitan Water District Administrative Code Section 8123: Authority of the General Manager to Amend Contracts

California Environmental Quality Act (CEQA)

CEQA determination for Staff Recommendation:

The action was previously determined to be exempt under the provisions of CEQA and State CEQA Guidelines. The Sepulveda Feeder Repairs Project was found to be exempt by the Board under Sections 21060.3 and 21080(b) of the California Public Resources Code and Section 15269 of the State CEQA Guidelines on June 10, 2008. With the current board action, there is no substantial change proposed to the project since the original exemption was determined appropriate. Hence, the previous environmental documentation in conjunction with the project fully complies with CEQA and the State CEQA Guidelines. Accordingly, no further CEQA documentation is necessary for the Board to act with regards to the proposed action.

The CEQA determination is: Determine that the proposed actions have been previously addressed in the 2008 statutory exemption (Sections 21060.3 and 21080(b) of the California Public Resources Code and Section 15269 of the State CEQA Guidelines) and that no further environmental analysis or documentation is required.

Staff Recommendation

Adopt the CEQA determination and authorize an increase of \$135,000 in the General Manager’s authority to execute change orders on the Sepulveda Feeder Repairs, for a new aggregate total of \$385,000.

Fiscal Impact: \$135,000 of previously appropriated funds

Business Analysis: This action reimburses the contractor for necessary work performed under urgent shutdown conditions.



Roy L. Wolfe
Manager, Corporate Resources

8/26/2008
Date



Jeffrey Kightlinger
General Manager

8/26/2008
Date

Attachment 1 – Location Maps



Project: Sepulveda Feeder Emergency Repairs. Prepared by: Ernie Chen (Right of Way Engineering Team). Checked by: Maang K. Hesse & Harouf Kasabian. Job#: 080605-15. Photograph Date: 2006. Printed: 05/13/2008. Image: mes. (MapInfo)



The Metropolitan Water District of Southern California
Corporate Resources Group

Sepulveda Feeder Emergency Repairs

Station 1430+25

