



Staff Report

City of Manhattan Beach

TO: Honorable Mayor Fahey and Members of the City Council

THROUGH: Geoff Dolan, City Manager

FROM: Neil C. Miller, Director of Public Works
 Dana Greenwood, City Engineer
 Gilbert Gamboa, Associate Engineer

DATE: July 19, 2005

SUBJECT: Approve Change Order No. 1 in the amount of \$117,240 to John T. Malloy, Inc. for the 2003-04 Water Main Replacement Project

RECOMMENDATION:

Staff recommends that the City Council pass a motion authorizing the Director of Public Works to approve additional work in the net amount of \$117,240 for the subject project.

FISCAL IMPLICATION:

PROJECT	FUNDING	CONTRACT	P.P.#	AMOUNT
2003-04 Water Main	Water Fund	\$ 366,900.00	1.	\$177,750.00
		Change Order #1:	2.	\$101,790.00
		\$ 117,240.00	Total:	\$279,540.00
		New Contract:		
		\$ 484,140.00		

DISCUSSION:

A total of \$500,000 was allocated in the Capital Improvement Program for this project. At its December 7, 2004 meeting, Council awarded a contract in the amount of \$366,900 and authorized the Director of Public Works to approve additional work in an amount not-to exceed \$35,000, if required. This was done because projects that involve extensive excavation have a higher probability for encountering unforeseen conditions which could warrant a change order.

During the course of the project inspection, City staff indirectly encountered an unforeseen circumstance during the reconnection of the proposed new water main to the City's existing arterial-

loop water system network. Specifically, during the reconnection of the new cement lined, ductile iron main to an existing (60 year-old, unlined) 6-inch diameter, cast iron distribution main running along 35th Street, significant internal corrosion deposits were discovered in the existing water main. Typically, unlined pipe is, by far, more prone to the deteriorating effects of tuberculation. Consequently, with the deposition and growth of corrosion products on interior pipe walls comes an increase in roughness and a decrease in the flow area. This ultimately reduces a pipeline's carrying capacity for distribution and fire flow.

The change order work will consist of the construction of new 6" to 8" ductile iron pipe and appurtenances, the installation of new fire hydrants, the construction of service transfer connections and the connections of the new water main to the City's existing water system network. The extent of replacement will take place from Palm Avenue to Oak Avenue along 35th Street (see attached map).

This additional work resulted in a net increase to the contract cost of \$117,240, based on an extension of the original contract unit price. Staff is recommending approval of a change order in the amount of \$117,240 utilizing the available funds in the budgeted project account. This will bring the total cost of construction to \$484,140, leaving a surplus of \$15,860 in the project budget account.

Attachment: GIS map

xc: Henry Mitzner, Controller

FY 03-04 Water Main Replacement Project

Change Order #1

