

# STAFF REPORT



ITEM NO. **12**  
CITY OF OCEANSIDE

DATE: June 20, 2012  
TO: Honorable Mayor and City Councilmembers  
FROM: Water Utilities Department  
SUBJECT: **AUTHORIZE CITY ENGINEER TO CALL FOR BIDS FOR HARBOR LIFT STATION NO. 4 FORCE MAIN REPLACEMENT PROJECT**

## **SYNOPSIS**

Staff recommends that the City Council authorize the City Engineer to call for bids for the construction of the Harbor Lift Station No. 4 Force Main Replacement project located north of the San Luis Rey River and east of the Pacific Street Bridge at Harbor Drive South.

## **BACKGROUND**

When the Harbor was created in 1961, the entire existing utility infrastructure as it exists today was installed, including the lift stations and sewer force-mains. Since this time, the Harbor has been responsible for the operation and maintenance of the existing infrastructure. An agreement between the Harbor and the Water Utilities Department stipulates that upon the completion of either the lift station or force main improvements the water utilities department would assume ownership and take over the operation and maintenance of the system moving forward.

Harbor Lift Station No. 4 consists of an existing 8-inch cast iron sewer force main which connects with North Bridge Lift Station (Exhibit A) and sends sewage to the La Salina Wastewater Treatment Facility for processing. The length of the existing force main is approximately 400 linear feet and is situated in Harbor Drive and underneath the North County Transit District's (NCTD) railroad right-of-way. Cast iron piping is susceptible to corrosion which can occur and can weaken the pipe wall over time. In addition, rust tends to accumulate in cast iron pipe thus creating a blockage over time and less carrying capacity. This sewer force main has reached the end of its useful life and needs to be replaced to ensure continued service.

On September 22, 2010, the City Council approved the plans and specification for the construction of the Harbor Lift Station No. 4 Force Main Replacement project and authorized the City Engineer to call for bids.

On October 28, 2010, four bids were received and opened for the Harbor Lift Station No. 4 Force Main Replacement project. After analyzing the bids and considering the best interest of the City, on December 22, 2010, City Council approved rejecting all bids and re-bidding the project at a future date.

### **ANALYSIS**

The proposed project consists of replacing approximately 400 linear feet of 8-inch cast iron force main with approximately 400 linear feet of 8-inch C900 PVC and ductile iron force main and associated mechanical work within the Harbor No. 4 and North Bridge lift stations. The 8-inch ductile iron force main will be enclosed in a steel casing that will be installed across the NCTD right-of-way. With a typical force main installation, the pipe can be installed via open trench construction. However, both NCTD and the City require that anytime a pipe is installed under an existing roadway or railroad track, a "sleeve" or "casing" pipe must be installed by the jack and bore method of construction. Once the casing is installed, the force main "carrier" pipe is installed inside of the casing. The casing pipe protects the active force main from being crushed. Staff estimates that construction of the project will take approximately four months.

The project is exempt from the California Environmental Quality Act requirements. The plans and specifications for the project are available for review in the offices of the City Manager and the City Engineer.

### **FISCAL IMPACT**

The FY 12/13 proposed budget for the Force Main for Harbor Lift Station fund (910539400751) is \$450,000. This project is funded by the Harbor & Beaches Division; no funds from Water Utilities will be used for this project.

The engineer's estimate for construction of this project is \$395,000. Therefore, there are sufficient funds available to complete this project.

### **CITY ATTORNEY'S ANALYSIS**

The referenced documents have been reviewed by the City Attorney and approved as to form.

### **INSURANCE REQUIREMENTS**

The City's standard insurance requirements will be met.

### **COMMISSION OR COMMITTEE REPORT**

Does not apply.

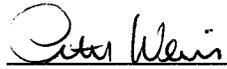
**RECOMMENDATIONS**

Staff recommends that the City Council authorize the City Engineer to call for bids for the construction of the Harbor Lift Station No. 4 Force Main Replacement project located north of the San Luis Rey River and east of the Pacific Street Bridge at Harbor Drive South.

PREPARED BY:

  
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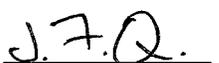
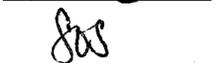
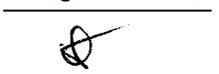
  
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Exhibit A: Site Map



# Exhibit A

## Force-Main Harbor Lift Station Project

