

**CITY OF ALBANY  
CITY COUNCIL AGENDA  
STAFF REPORT**

Agenda Date: December 1, 2008

Reviewed by: BP

**SUBJECT:** Polk Street and Madison Street Sewer Replacement Project

**REPORT BY:** Ann Chaney, Community Development Director  
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**STAFF RECOMMENDATION**

That Council approve the Plans and Authorize the City Clerk to Advertise for bids for the Polk Street and Madison Street Sewer Replacement Project - CIP Project P58.

**BACKGROUND**

Since the mid 1980s the City has been rehabilitating and replacing portions of the Sanitary Sewer Collection system pursuant to its Sanitary Sewer Compliance Plan which has been undertaken as a part of the East Bay Infiltration / Inflow Correction Program (I/ICP). On March 15, 2004 the City Council authorized a 5-year Sewer Capital Improvement Plan (CIP) in order to address the projects identified in the current phase of the Compliance Plan. Subsequent to the Council's direction, approximately \$6,000,000 worth of bonds were issued to cover the estimated costs of these projects which included replacing and/or rehabilitating sewers in: (a) in San Pablo Avenue; b) easements between Madison Street and Adams Street; (c) easements between Pomona Avenue and Key Route Blvd.; (d) easements north of Brighton; (e) easements on Albany Hill; and in other locations throughout the City as conditions may dictate.

On March 17, 2008 the City Council authorized the call for bids for the 2008 Sewer Improvement Project - East Side of Albany Hill - CIP Project P49. The construction cost at the time had been estimated to be \$2,200,000 for construction including a 10% contingency. Bids were received on April 24, 2008 for this project and the lowest bidder was in the amount of \$1,019,125.

**DISCUSSION**

During an investigation of a sinkhole at the 900 block of Polk Street the City staff discovered that the structural condition of approximately 250 feet of the existing 6" sewer main was in major disrepair. In addition because the City is planning to completely resurface the pavement on Madison Street between Solano and Washington Avenues, as

part of the Pavement Rehabilitation Program, a condition assessment of the sewers was conducted. From this assessment, staff discovered that sewers under the future pavement replacement project would also require replacement in the near future. The estimated total cost to rehabilitate these sewers is \$355,000 dollars.

Because the awarded contract for the 2008 Sewer Project was below the initially estimated cost, the City engineering staff reevaluated future sewer rehabilitation needs during the drafting of the 2009-2013 Capital Improvement Plan. As a result, it is recommended that some of this surplus amount be used on other sewer projects that are on the high priority list for replacement. The Polk Street and Madison Street Sewer Replacement Project - CIP Project P58 is one of these high priority sewers projects.

The recommended solution is to install a new plastic liner pipe inside the existing sewer mains and the lower laterals in each street by the pipe bursting method. The City will also replace existing manholes and rodding inlets to further reduce the infiltration and inflow of storm and ground water (“I and I”) into the sanitary sewer system.

### **ANALYSIS**

Given the extent and severity of these two sewer main lines, the overall City goal is to keep moving forward on projects that will incrementally improve the condition of the sewer system. This strategy will gradually reduce the number of sewer emergencies that residents must deal with, reduce the City’s substantial annual costs of sewer spot repairs, and ultimately meet the requirements of the Regional Water Quality Control Board to significantly reduce “I and I.”

### **SUSTAINABILITY IMPACT**

In recent years, concerns about sanitary sewer overflows (SSOs) have become a critical water quality issue in the Bay Area. The San Francisco Regional Water Quality Control Board (Regional Board) has established a regulatory program to reduce SSOs from the sewers in the Bay Area. Since 2004, the Regional Board has developed a Sewer System Management Plan (SSMP) guide for all the sewer collection agencies to follow. The City’s SSMP, is a work in progress and replacements like this are not only mandatory under the new SSMP requirements but also aligned with the City’s goals to properly manage, operate and maintain all parts of the wastewater collection system minimizing the frequency of SSOs that are a potential health risk for the City residents, as well as the environmental quality of the Bay.

### **FINANCIAL IMPACT**

The estimated total cost to rehabilitate the Polk and Madison Street sewers is \$355,000 dollars: \$42,000 for topographic surveys, mapping, television inspections and design; \$288,000 for construction (including \$29,000 for contingencies); and \$23,000 for construction engineering and project management. Funding for this project is from the surplus funds allocated for P49, East Albany Hill Sewer project, which is 90% complete.

The estimated surplus amount available to other sewer projects is approximately \$1,000,000. Thus adequate funds are available for this project.

Attachment

Engineer's Cost Estimate for Polk Street and Madison Street sewer project