



# Memorandum

**TO:** HONORABLE MAYOR AND  
CITY COUNCIL

**FROM:** Katy Allen

**SUBJECT:** 60-INCH BRICK INTERCEPTOR  
REPLACEMENT PHASE IB  
PROJECT – CCO NO. 29

**DATE:** 01-18-06

Approved

Date

1/25/06

Council District: 4

## RECOMMENDATION

Approval of Contract Change Order (CCO) No. 29 for the 60-Inch Brick Interceptor Replacement Phase IB Project in the amount not to exceed \$750,000, for a total contract amount of \$17,941,117.76.

CEQA: ND, PP 03-12-374

## BACKGROUND

On June 22, 2004, Council awarded the construction contract for the 60-Inch Brick Interceptor Replacement Project (Phase IB) to Ranger Pipelines, Inc., (Ranger) in the amount of \$16,573,660.50, with a 15% contingency in the amount of \$2,400,000. The project includes the replacement of the aging brick sewer with a new 84-inch Reinforced Concrete Pipe along Zanker Road from the Water Pollution Control Plant (WPCP) to just south of Tasman Drive.

Construction began in September 2004 and the project will be substantially complete in spring 2006.

During a moderate rainstorm in February 2005, staff noticed a rapid rise in the level of the sewer flow. The rapid rise of the sewer surface level was an indication of a capacity deficit in the interceptor system linked to years of sediment build-up in the system.

## ANALYSIS

Although staff had intended to issue a separate interceptor cleaning contract at the conclusion of the Phase IB project, the urgency to remove as much sediment as possible prior to the 2005-06 wet weather season prompted this CCO No. 29 with Ranger. Throughout these interceptor-

cleaning operations, Public Works staff closely coordinated the flow cleaning and diversions and disposal activities with appropriate staff from WPCP and DOT.

Staff analyzed the Phase IB construction schedule to anticipate sediment removal opportunities that coincided with the contractor's schedule and would not delay the critical path activities. As part of the change order, the contractor is agreeing that the sediment removal work did not affect the critical path activities and did not delay the project.

Following each cleaning operation, the various construction stages of the Phase IB project allowed major portions of the pipeline system to be isolated and cleaned, totaling 9,350 lineal feet. The total tonnage of sediment and grease removed via these operations was 480 tons. The total amount of solids removed at the WPCP is estimated at an additional 375 tons. The largest accumulation of sediment approached 5 feet deep in one of the siphons and varied between 1-4 feet in depth in major portions of the system.

All sediment removal activities associated with the CCO No. 29 have been completed at this time. The time-and-materials basis of cost accounting for the cleaning operations includes costs for additional pumping for flow diversions, sanitation and safety equipment, sewer gas detection and monitoring equipment for confined-space entry operations, and the transport and disposal of the removed material. Additionally, the sewer-cleaning contractor was required to establish a health and safety plan consistent with applicable OSHA and environmental regulations.

The removal of sediments from the interceptor system will decrease the production of odors caused by hydrogen sulfide gas within this reach of the system and will ensure adequate wet weather capacity in the system. Although this was the initial cleaning opportunity for this reach of the interceptor system, staff anticipates that more frequent cleanings and inspections will become routine, scheduled maintenance operations.

### **OUTCOME**

The approval of this CCO No. 29 will compensate the contractor for the cleaning of accumulated grease and sediment from the northern reaches of the interceptor system to ensure adequate peak wet weather capacity in the system.

### **COORDINATION**

The project and memorandum have been coordinated with the City Manager's Budget Office, Departments of Transportation, Environmental Services, Finance, Planning, Building and Code Enforcement and the City Attorney's Office.

**COST IMPLICATIONS**

1. AMOUNT OF RECOMMENDATION: \$750,000

2. COST OF PROJECT:

Project Delivery*	\$ 3,584,000.00
Land	114,000.00
Construction	16,573,660.50
Previous CCOs	617,457.26
CCO No. 29	750,000.00
Remaining Contingency	<u>1,032,542.74</u>
<b>TOTAL PROJECT COSTS</b>	<b>\$22,671,660.50</b>
Prior Year Expenditures	(\$15,781,714.17)
<b>REMAINING PROJECT COSTS</b>	<b>\$6,889,946.33</b>

\* Project Delivery Cost includes \$2,079,100 for professional services and \$1,504,900 for Design, Construction Management and Inspection Services

3. SOURCE OF FUNDING: 545 – Sewer Service and Use Charge Capital Improvement Fund

4. FISCAL IMPACT: This project is consistent with the Council-Approved Budget Strategy Economic Recovery section in that it will spur construction spending in our local economy. The project has been reviewed and determined that it will have no significant adverse impact on the General Fund operating budget.

**BUDGET REFERENCE**

Fund #	Appn #	Appn. Name	RC #	Total Appn	Amount for CCO No. 29	2005-2006 Adopted Budget (Page)	Last Budget Action (Date, Ord. No.)
<b>Remaining Project Costs</b>				<b>\$6,889,946.33</b>			
<b>Cnrrrent Funding Available</b>							
545	4969	60" Briek Interceptor, Phase 1B	105883	\$3,080,000	\$750,000	Capital V-167	10/18/05 Ord. No. 27580
545	4271	Miscellaneous Rehabilitation Projects	132195	\$4,753,000	\$0	Capital V-175	10/18/05 Ord. No. 27580
<b>Total Current Funding Available</b>				<b>\$7,833,000</b>	<b>\$750,000</b>		

HONORABLE MAYOR AND CITY COUNCIL

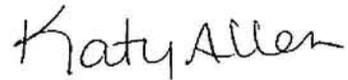
01-18-06

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**CEQA**

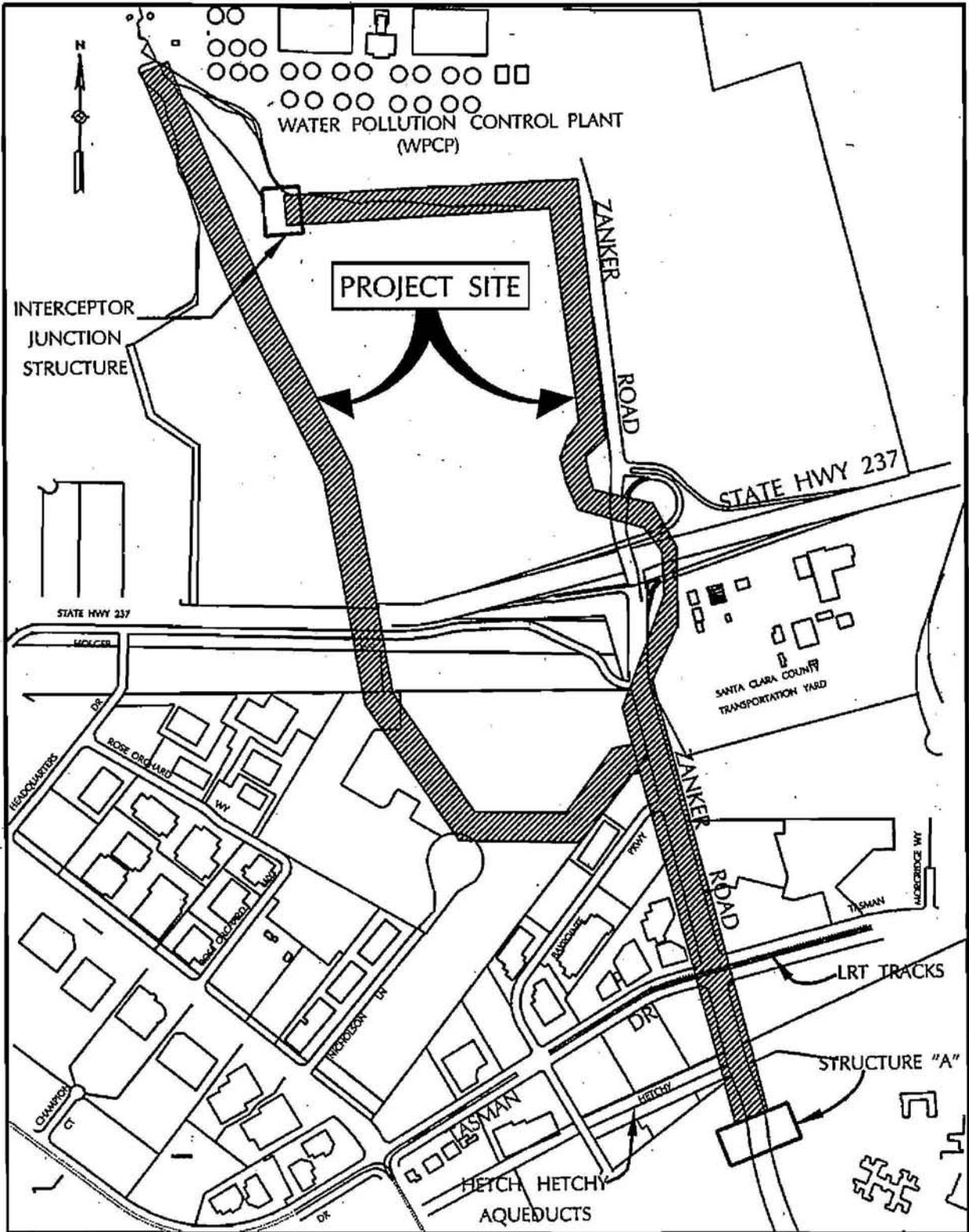
ND, PP 03-12-374.

A handwritten signature in black ink that reads "Katy Allen". The signature is written in a cursive, flowing style.

**KATY ALLEN**  
Director, Public Works Department

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Attachments

# 60" BRICK INTERCEPTOR REPLACEMENT PHASE IB

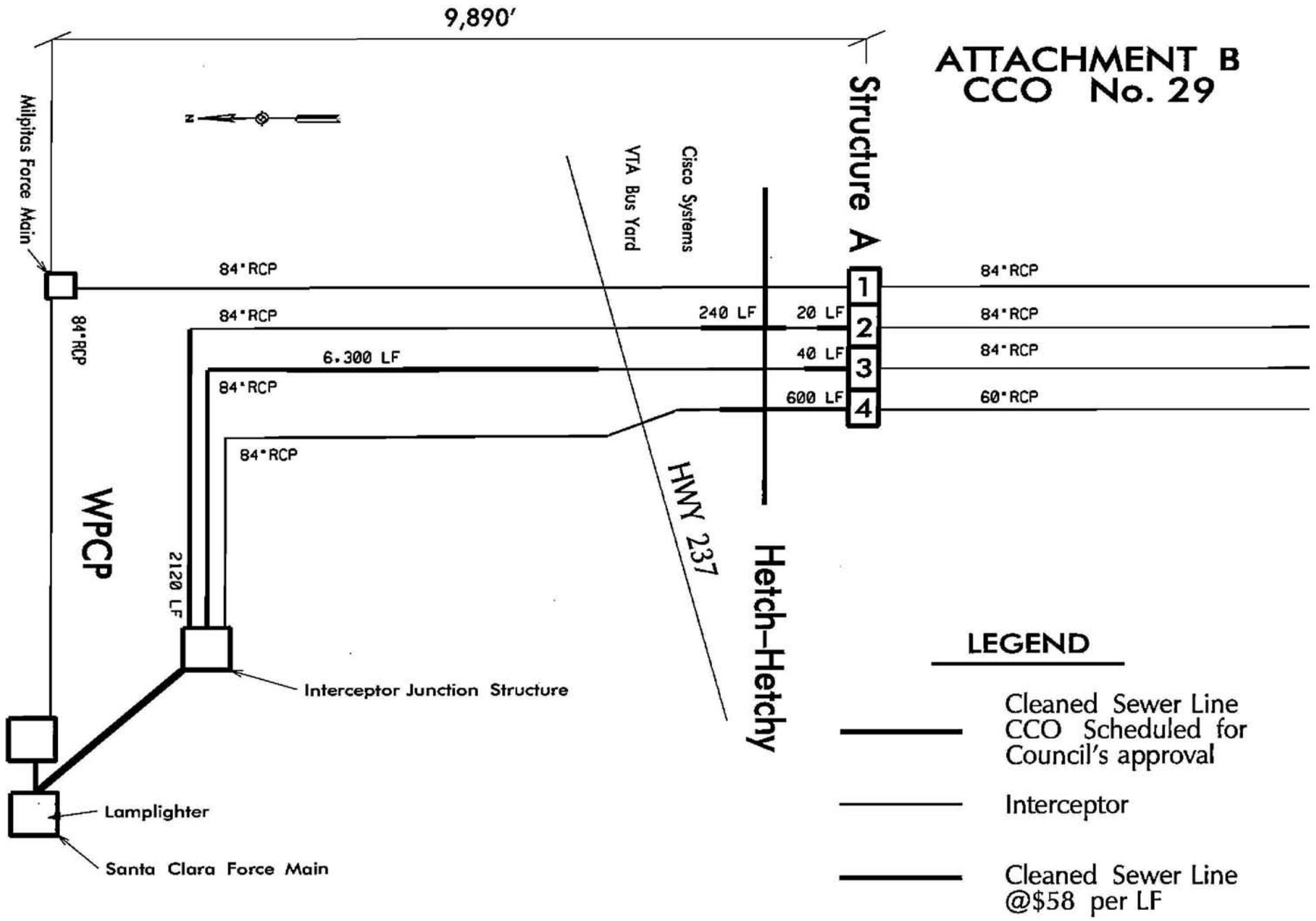


LOCATION MAP

NOT TO SCALE

**ATTACHMENT A**

# ATTACHMENT B CCO No. 29



## CLEANING OF THE INTERCEPTOR SYSTEM