



# REPORT TO COUNCIL

## City of Sacramento

915 I Street, Sacramento, CA 95814-2604  
www. CityofSacramento.org

Consent  
May 18, 2010

Honorable Mayor and  
Members of the City Council

**Title:** CONTRACT: 5<sup>th</sup> STREET SEWER UPSIZING, P STREET TO U STREET  
(X14010032)

**Location/Council District:** Council Districts 1 and 4

**Recommendation:** Adopt a **Resolution** approving the contract specifications for the 5<sup>th</sup> Street Sewer Upsizing, P Street to U Street Project (X14010032) and awarding the contract to Florez Paving for an amount not to exceed \$1,722,885.

**Contact:** David L. Brent, Engineering Services Manager, 808-1420; Richard Batha, Supervising Engineer, 808-1448

**Presenters:** Not applicable

**Department:** Utilities

**Division:** Engineering Services

**Organization No:** 14001311

### Description/Analysis

**Issue:** This project will replace deteriorated portions of the Combined Sewer System (CSS), add in-line storage to reduce flooding in the surrounding and upstream portions of the CSS, and continue the Downtown Sewer Upsizing Project, a major component of the long-term CSS Improvement Program. This program is mandated by the City's National Pollution Discharge Elimination System permit, which regulates the City's operation of the CSS.

**Policy Considerations:** This report's recommendation is consistent with the City's Strategic Plan goals of improving and expanding public safety and achieving sustainability and livability. The requested action is in conformance with City Code Section 3.60, Articles I and III, which provides that the City Council may award competitively bid contracts to the lowest responsible bidder. Staff has verified or will verify prior to the Notice to Proceed, that the bonds and

insurance required for this project are valid.

**Environmental Considerations:** The Development Services Department, Environmental Planning Services Division, has reviewed the proposed project and has determined that this project is categorically exempt from the California Environmental Quality Act (CEQA) under Class 1 & 2, and Sections 15301 (b)(d) and 15302(c) of the CEQA Guidelines, as the project consists of repair of existing publicly owned facilities and restoration and rehabilitation of deteriorated or damaged facilities to meet current standards of public health and safety. As noted above, this project also is part of the City's long-term CSS Improvement Program, for which the City Council certified an Environmental Impact Report in 1997 (Resolution 97-123).

**Sustainability Considerations:** The project is consistent with the City's Sustainability Master Plan by reducing sanitary sewer overflows and improving reliability, which will reduce energy-intensive maintenance.

**Commission/Committee Action:** Not applicable

**Rationale for Recommendation:** Engineering Services advertised the project to solicit bids, in accordance with City Code 3.60 and Administrative Policy Instruction Number 4002. Twelve bids were received and opened by the City Clerk on April 7, 2010.

The lowest bidder, Mountain Cascade, Inc., and the second low bidder, Ariza Construction, Inc., each withdrew their bids due to clerical errors, as authorized under the California Public Contracts Code. As a result, the lowest responsive and responsible bidder is the third bidder, Florez Paving. Staff recommends the contract be awarded to Florez Paving for an amount not to exceed \$1,722,885.

**Financial Considerations:** With the construction contract for an amount not to exceed \$1,722,885, the total costs to design, inspect, construct, and contingency are estimated to be \$2,052,000. There are sufficient funds to award the construction contract and complete the 5<sup>th</sup> Street Sewer Upsizing, P Street to U Street project (X14010032).

**Emerging Small Business Development (ESBD):** This project included participation goals of 20% for emerging and small business enterprises as required by Ordinance 99-007 and Resolution 99-055 relating to ESBD participation goals and policies, adopted by City Council of February 9, 1999. The lowest responsible bidder, Florez Paving, exceeded the ESBE goals with a participation level of 98.79%.

Respectfully Submitted by:   
David L. Brent  
Engineering Services Manager

Approved by:   
Marty Hanneman  
Director of Utilities

Recommendation Approved:

  
Gus Vina  
Interim City Manager

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## Attachment 1

### Background

This project is a part of the Combined Sewer System (CSS) Improvement Program, which was approved by the City Council and the Regional Water Quality Control Board in 1995 and 1996. A comprehensive study was undertaken between 1991 and 1995 that culminated in this overall plan that determined that the best approach to the problems of the City's combined sewer system was to upgrade and upsize the two major pump stations, convert a large storage facility named Pioneer Reservoir to primary treatment, to systematically replace and rehabilitate the collection system, and most relevant to the subject project, to provide storage throughout the system to reduce the hydraulic grade line during storms and thus reduce surcharging of the system. This overall approach was determined to be the most cost effective solution compared to either separating the storm drainage and sewer systems or constructing deep tunnels. Both of these options were determined to cost over a billion dollars not including the rehabilitation needs that remained, given that the system averages at least 80 years in age. The approved plan was estimated to cost about \$440 million, including substantial rehabilitation. The approved plan also provides the substantial water quality benefit of providing for continued treatment of urban runoff and stormwater discharges within the CSS, which benefit would be lost if a separate sewer system were constructed.

The 5<sup>th</sup> Street Sewer Upsizing, P Street to U Street project is part of the Downtown Sewer Upsizing Project (DSUP), which was identified as a part of the Combined System Improvement Program. Attached is a map that shows the DSUP, which constitutes a network of upsized pipes that connect to an upsized and improved Sump 1/1A, which, when completed will significantly reduce the hydraulic grade line in the downtown area. The subject project will connect to recently completed projects and allow planned projects to be designed and constructed, in order to complete the DSUP.

The DSUP is comprised of several individual design/ construction contracts that have taken place over the past several years and is intended to significantly reduce flooding of combined sewage in the region surrounding the Capitol and to reduce combined sewer overflows. As the map shows, a significant portion of the DSUP is either complete or budgeted. The remaining portion to be constructed consists of 12 city blocks and will complete this network of upsized pipes.

The project consists of replacing aged (some over 100 years old) combined sewer pipes with pipes that are much larger and constructing parallel pipes. The completed upsized system will result in reduced hydraulic grades in these interceptor pipes that will greatly eliminate backing up of the system and thereby reduce flooding. Please note on the map the proximity of this network of large pipes to Sump 1/1A. This pump station provides "tailwater control", which ensures low downstream levels in all but very large, over 10 year storm events and thereby reducing flooding due to back-ups in the system. The construction of this network of oversized pipes will provide a direct connection to this source of "tailwater control". In addition, the upsized system will serve as "in-line

storage", which will result in greater system-wide storage, and will reduce the need to pump directly to the river without storage or treatment. This reduction will serve to protect the Sacramento River and downstream water users from potential effects from the City of Sacramento's CSS.

The purpose of this project is also to replace and thus rejuvenate portions of the combined system. Most of the older combined system in the downtown area have reached the end of their useful lives and need to be replaced to avoid failure or even catastrophic collapse in the future.

The project scope proposes to replace approximately 1,300 lineal feet of existing 24-inch pipe with new 72-inch pipe, between P Street and S Street. Additionally, the project will place approximately 800 lineal feet of 60-inch pipe parallel to the existing 60-inch pipe, between S Street and U Street. The construction of this larger or parallel piping will displace existing storm drainage pipeline and fiber optic ducts. Therefore, the project includes work to allow the continued operation of the utilities. Specifically, this consists of two manholes with approximately 20 lineal feet of 36-inch storm drainage pipe to mitigate the conflict between the drainage and proposed combined sewer pipeline at 5th and Q Streets; and approximately 560 lineal feet of a City fiber optic duct bank will be relocated, as it lies within the trench of the proposed 72-inch pipe, between P and Q Streets. Lastly, two existing manholes and a junction structure, located at U and 5<sup>th</sup> Street, will be rehabilitated and 12 drain inlets will be replaced.

The project was advertised and on April 7, 2010, twelve bids were received and opened. The summary of the bids is as follows:

| <b>Contractor</b>              | <b>Bid Amount</b> |
|--------------------------------|-------------------|
| Mountain Cascade, Inc.*        | \$1,667,050       |
| Ariza Construction, Inc.*      | \$1,699,000       |
| Florez Paving                  | \$1,772,885       |
| T & S Construction, Inc.       | \$1,884,540       |
| Marques Pipeline, Inc.         | \$1,953,250       |
| Civil Engineering Construction | \$1,981,100       |
| Teichert Construction          | \$2,023,334       |
| Preston Pipelines              | \$2,063,980       |
| Navajo Pipelines, Inc.         | \$2,090,985       |
| McGuire & Hester               | \$2,332,650       |
| Bay Pacific Pipelines          | \$2,361,300       |

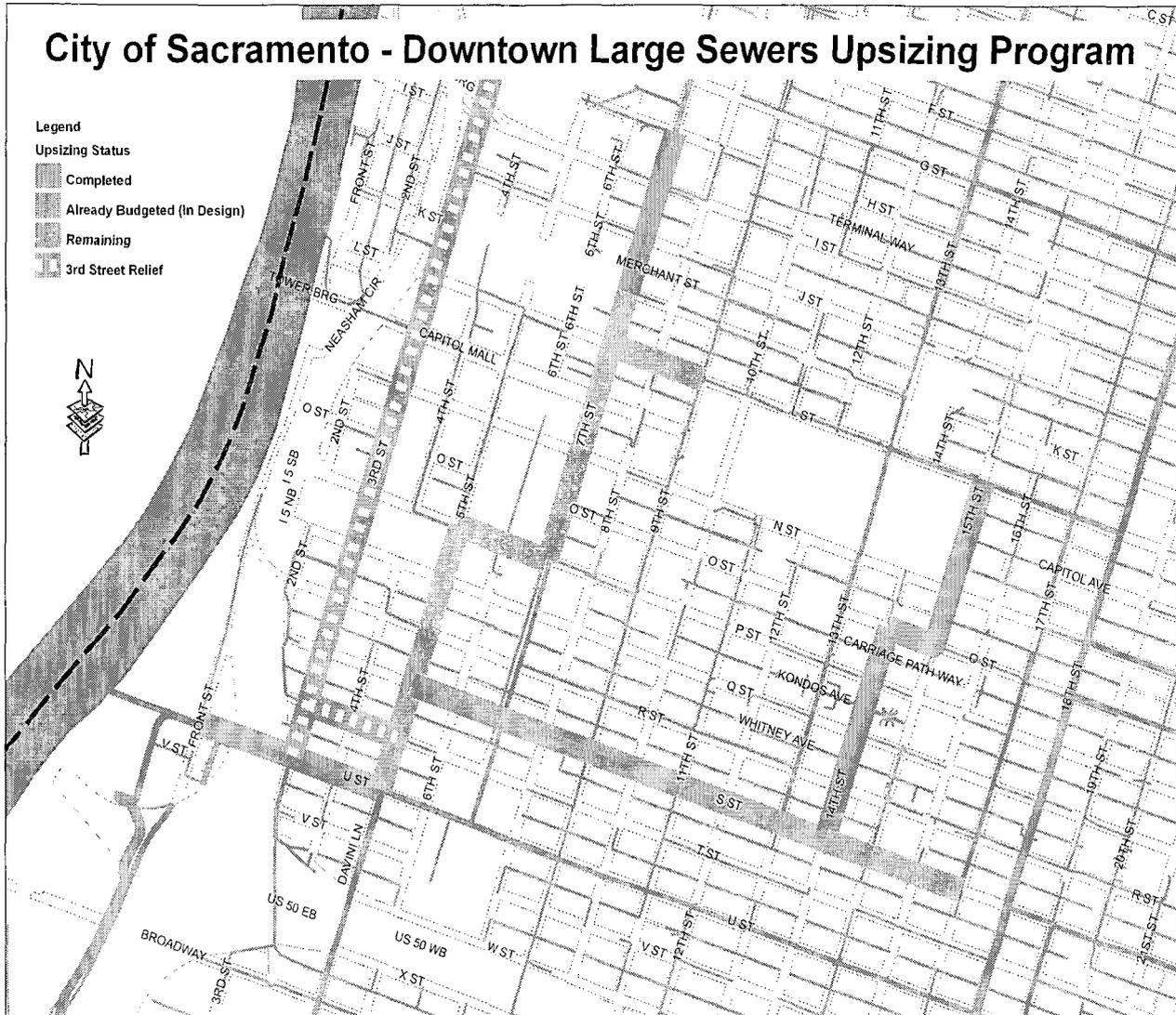
| <b>Contractor</b>            | <b>Bid Amount</b> |
|------------------------------|-------------------|
| Cox & Cox Construction, Inc. | \$3,406,764       |

\*The low bidder, Mountain Cascade, Inc. and the second low bidder, Ariza Construction, Inc, each withdrew their bids due to clerical errors, as authorized under the California Public Contracts Code. Thus the lowest responsive and responsible bidder is Florez Paving, with a bid amount of \$1,772,885.

The Engineer's construction estimate was \$1,800,000.

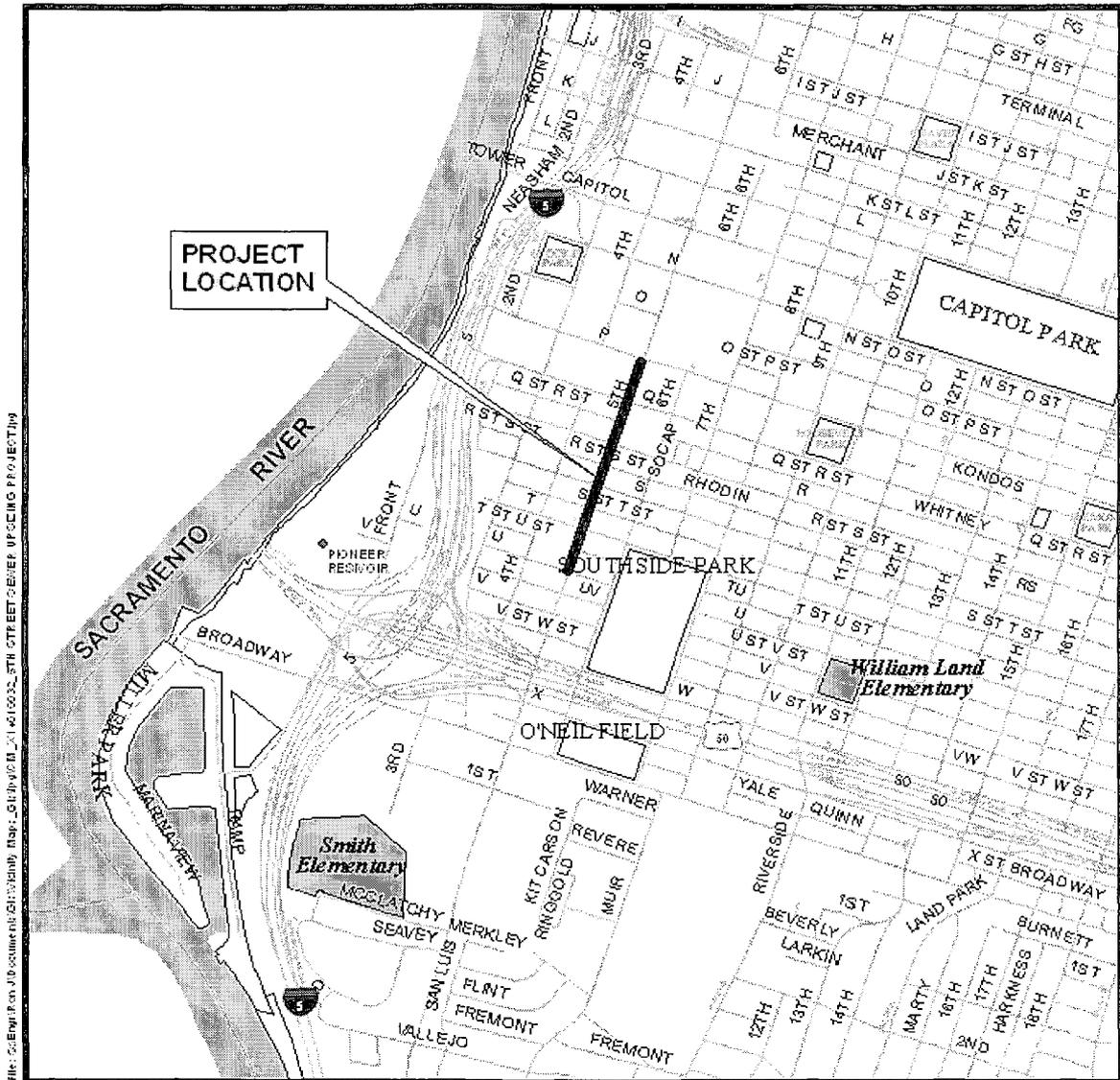
Attachment 2

Downtown Sewer Upsizing Program Map



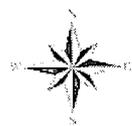
Attachment 3

5TH STREET SEWER UPSIZING  
P STREET TO U STREET  
(PN: X14010032)



File: C:\EWP\on J:\Documents\GIS\Utility\Map\X14010032\_5TH STREET SEWER UPSIZING PROJECT.Dwg

Map Prepared By  
City of Sacramento  
Department of Utilities



**Attachment 4**

**RESOLUTION NO.**

Adopted by the Sacramento City Council

**AWARD CONTRACT FOR THE 5<sup>TH</sup> STREET SEWER UPSIZING, P STREET TO U STREET PROJECT (X14010032)**

**BACKGROUND**

- A. The purpose of this project is to replace old deteriorated sewer pipes and to reduce flooding in the downtown area. Most of the older combined sewer in the downtown area has reached the end of its useful life and need to be replaced to avoid failure or even catastrophic collapse in the future. Along 5th Street from P Street to S Street, the sewer pipeline is in poor condition and undersized for supplying adequate conveyance to the improved sumps and Pioneer Reservoir. The new large replacement sewers have been designed to provide both increased conveyance and in-line storage to achieve maximum flood reduction.
- B. The 5<sup>th</sup> Street Sewer Upsizing, P Street to U Street Project was advertised for bidding and twelve bids were received on April 7, 2010. The low bid submitted by Mountain Cascade Inc. and the second low bid submitted by Ariza Construction, Inc. each
- C. As a result of the bid withdrawals, Florez Paving was the lowest responsive and responsible bidder with a bid of \$1,722,885.

**BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:**

- Section 1. The contract plans and specifications for the 5<sup>th</sup> Street Sewer Upsizing, P Street to U Street project (X14010032) are approved.
- Section 2. The construction contract is awarded to Florez Paving for an amount not to exceed \$1,722,885.