

Meeting Date: 2/11/2014

Report Type: Consent

Report ID: 2014-00072

Title: Change Order No. 1 with CSI Engineering for T Street Sewer Replacement, 19th-21st Street (X14010052)

Location: District 4

Issue: This project is replacing existing deteriorated sewer pipes and associated appurtenances.

Recommendation: Pass 1) a Motion authorizing the City Manager or the City Manager's designee to sign Change Order No. 1 to City Contract No. 2013-00835 with CSI Engineering, for the amount of \$155,810, bringing the contract's not-to-exceed amount to \$394,279.97; and 2) a Resolution authorizing the transfer of sewer funds (Fund 6006) in the amount of \$150,000 from the Base CIP Contingency project (X14000500) to the Combined Sewer System Replacement Project (X14010000).

Contact: Bill Busath, Engineering & Water Resources Manager, (916) 808-1434; Brett Grant, Supervising Engineer, (916) 808-1413, Department of Utilities

Presenter: None

Department: Department Of Utilities

Division: Cip Engineering

Dept ID: 14001321

Attachments:

- 1-Description/Analysis
- 2-Background
- 3-Location Map
- 4-Resolution
- 5-Exhibit A (Change Order)

City Attorney Review

Approved as to Form
Joe Robinson
2/5/2014 11:20:17 AM

City Treasurer Review

Reviewed for Impact on Cash and Debt
Russell Fehr
1/27/2014 9:47:32 AM

Approvals/Acknowledgements

Department Director or Designee: Dave Brent - 2/4/2014 9:13:19 AM

Description/Analysis

Issue: The T Street Sewer Replacement Project, 19th – 21st Street will replace deteriorated portions of the existing 8-inch combined sewer pipes in T Street and 20th Street, and will abandon and reroute a section of combined sewer main crushed beneath the railroad and light rail tracks in T Street. Additionally, manholes, drain inlets, sewer services and cleanouts will be replaced and/or constructed as part of this project. Consistent with the criteria set forth in the Department of Utilities' (DOU's) Capital Improvement Programming Guide, these sections of pipe have failed and replacement is necessary.

The City Council awarded this contract to CSI Engineering on November 26, 2013, for a contract amount of \$238,469.67. This change order compensates the contractor for additional work required by the City, due to design changes identified in the recently completed Combined Sewer System Improvement Plan (CSSIP) update. The total change order amount is \$155,810.00.

Policy Considerations: The action requested is consistent with the City of Sacramento General Plan goals of providing high-quality and efficient utility services throughout the city, as well as improving infrastructure to support infill and intensified development consistent with priorities for smart growth.

Economic Impacts: This infrastructure repair project is expected to create 1.4 total job (0.8 direct job and 0.6 job through indirect and induced activities) and create \$211,685 in total economic output (\$133,427 of direct output and another \$78,258 of output through indirect and induced activities).

The indicated economic impacts are estimates calculated using a calculation tool developed by the Center for Strategic Economic Research (CSER). CSER utilized the IMPLAN input-output model (2009 coefficients) to quantify the economic impacts of a hypothetical \$1 million of spending in various construction categories within the City of Sacramento in an average one-year period. Actual impacts could differ significantly from the estimates and neither the City of Sacramento nor CSER shall be held responsible for consequences resulting from such differences.

Environmental Considerations: This project change order will replace the existing sewer line in 20th street, originally designed to be replaced with a 12-inch diameter pipe, with a larger 36-inch diameter pipe. This will provide increased stormwater storage to reduce flooding in the CSS, consistent with the CSSIP update. The pipe installation in 20th Street is exempt from CEQA review under Public Resources Code Section 21080.21 (pipelines less than one mile long in a public right-of-way).

Sustainability: The project furthers the goals of the City’s Sustainability Master Plan, by reducing flooding; by improving service; and by improving reliability, which will reduce energy-intensive maintenance efforts.

Commission/Committee Action: Not applicable.

Rationale for Recommendation: DOU recently completed an update to the CSSIP. The update recommends increasing an existing 8-inch combined sewer in 20th Street to a 36-inch combined sewer to provide underground storage that will reduce flooding in the surrounding area. To avoid digging up a newly constructed sewer in the near future, these changes were incorporated into the existing project, necessitating the execution of this change order to increase the size of the new pipeline for a portion of the project.

Financial Considerations: The T Street Sewer Replacement Project, 19th – 21st Street (X14010052), includes a total expense budget of \$342,845. With the existing construction contract for an amount not to exceed \$238,469.67, the total costs for design, inspection, construction, and contingency were originally estimated to be \$330,000. With the change order amount of \$155,810, there are not sufficient funds to complete the project. It is proposed that \$150,000 be transferred from the Base CIP Contingency – Wastewater project (X14000500, Waste Water Fund 6006) to the Combined Sewer System Capital project (X14010000, Waste Water Fund 6006) to complete the T Street Sewer Replacement Project, 19-21st St.

Emerging Small Business Development (ESBD): The lowest responsible bidder, CSI Engineering, exceeded the emerging and small business enterprise (ESBE) participation goal that applied when the contract was bid and awarded, with an ESBE participation level of 91.6%. The City’s ESBD program has since been replaced by Local Business Enterprise (LBE) requirements.

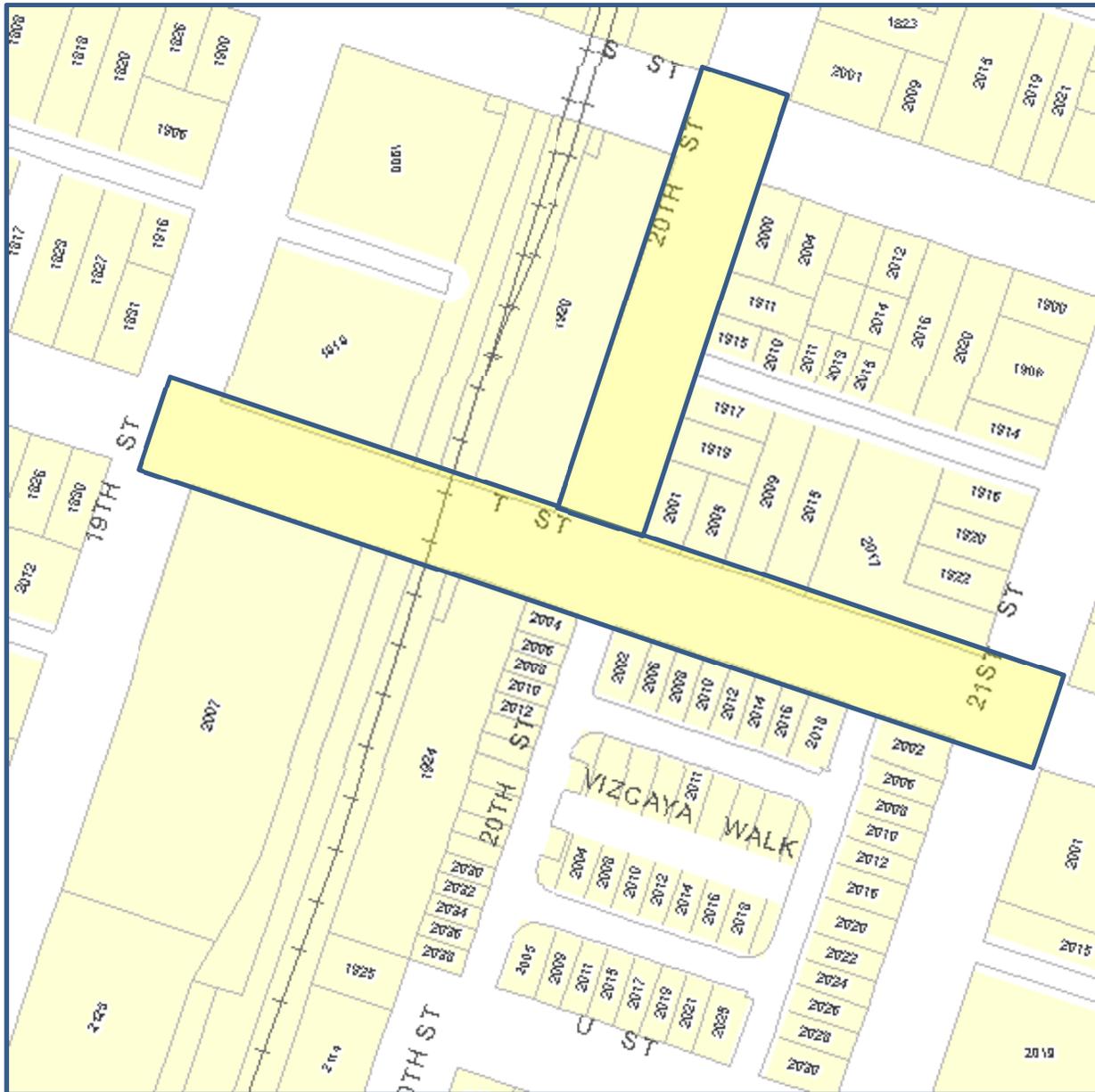
Background

The T Street Sewer Replacement, 19th to 21st Street (Project) replaces old and failing pipelines within the City's Combined Sewer System (CSS). The pipeline segments to be replaced by this project include 8-inch combined sewer (CS) mains in T between, 19th -21st Street, and in 20th Street, between T Street and S Street. These pipes were originally constructed in 1908 and 1909 using vitrified clay pipe (VCP). Closed-Circuit Television (CCTV) inspection indicates that these mains are in poor condition, portions of the pipe are cracked and crushed, manholes are in poor condition, and the surface east of the railroad crossing has started to sink. Maintenance crews note that due to the location of the manhole between the railroad tracks and the light rail tracks, it is difficult to access and maintain this manhole and portions of the combined sewer main in T Street.

Consistent with the criteria set forth in the Department of Utilities' Capital Improvement Programming Guide, these sections of pipe have failed and replacement is necessary. This project will reconstruct sewer facilities within T Street from 19th-21st Street, and 20th Street from T Street to S Street. The work to be performed consists of constructing approximately 220 Linear Feet (LF), and replacing approximately 900 LF, of combined sewer pipeline, manholes, drains, sewer services, and associated work.

This contract was awarded to CSI Engineering for \$238,469.67 on November 26, 2013. Since advertising this project, the Combined Sewer System Improvement Plan (CSSIP) update has been completed. A primary component of the update is to address flooding in the six areas identified by the CSSIP as having the highest risk for flooding. A key strategy for reducing flooding is identifying locations that provide effective underground storage. The Project includes replacing a section of sewer that the CSSIP update identified for in-line storage. In-line storage utilizes large diameter pipes to store rather than convey flows. To avoid replacing a newly constructed sewer in the near future, DOU negotiated a change order with CSI Engineering to construct the large diameter in-line storage pipe as part of the existing project. Under the proposed change order, the contractor will construct more than 400 feet of 36-inch combined sewer in place of the originally designed 12-inch pipe, and increase the size of three manholes. The total for the change order, based on the proposed design changes is \$155,810.

LOCATION MAP T Street Sewer Replacement, 19th-21st Street X14010052



Project Location: T Street between 19th Street and 21st Street, 20th Street between T Street and S Street.

RESOLUTION NO. 2014-

Adopted by the Sacramento City Council

February 11, 2014

BUDGET TRANSFER FOR T STREET SEWER REPLACEMENT, 19TH-21ST STREET (X14010052)

BACKGROUND

- A. The contract for the T Street Sewer Replacement, 19th-21st Street Project, was awarded to CSI Engineering on November 26, 2013.
- B. To coordinate with a new project identified in the City's Combined Sewer System Improvement Plan update, the proposed pipe in 20th Street, originally designed as 12-inch diameter, will be installed as a 36-inch diameter pipe, and three of the proposed manholes will be increased in size, based on the increased pipe diameter.
- C. This additional work requires additional funding for the T Street Project.

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

- Section 1. The City Manager, or his designee, is authorized to transfer \$150,000 in sewer funds (Fund 6006) from the Base CIP Contingency - Wastewater (X14000500) to the Combined Sewer System Capital project (X14010000).

CITY OF SACRAMENTO

CHANGE ORDER

Contract # & Date: CO 2013-1138 11/26/13

Budget#:6006-50000-51000000-X14010052

Purchase Order #:

Change Order No: 1

Sacramento, California

January 9, 2014

TO: CSI Engineering

CONTRACT FOR: T Street Sewer Replacement, 19th to 21st Street

(B14141321013)

Upon mutual acceptance of this document by the City of Sacramento, hereinafter referred to as "CITY", and your firm, hereinafter referred to as "CONTRACTOR", in accordance with the terms and conditions of the original contract documents, you are hereby directed to make the following change or changes for the consideration set forth below:

Description: See Exhibit A

The original contract sum was:	\$ <u>238,469.67</u>
Net change by previous change orders:	\$ <u>0.00</u>
The contract sum prior to this change order was:	\$ <u>238,469.67</u>
The contract sum will be increased by this C.O.:	\$ <u>155,810.00</u>
New contact sum including all Change Orders:	\$ <u>394,279.97</u>

CONTRACTOR agrees that the amount of increase or decrease in the contract sum specified in this change order shall constitute full compensation for the work required by this change order, including but not limited to all compensation for the additional and/or revised work specified herein, and shall fully compensate CONTRACTOR for any and all direct and indirect costs that may be incurred by CONTRACTOR in connection with such additional and/or revised work, including any changes, disruptions or delays in work schedules or in the performance of other work by CONTRACTOR. The time for performance of the Contract will **be increased by 40 working days** by reason of the work required by this Change Order. Except as herein above expressly provided, CONTRACTOR further agrees that the performance of the work specified in this Change Order or the rescheduling of other project work made necessary by this Change Order, shall not constitute a delay which will extend the time limit for completion of the work as said term is used in the Contract between CITY and CONTRACTOR for the project.

Approval Recommended By:

Approved By:

Project Manager – Melissa Marshall

Dave L. Brent, Director – Department of Utilities

Approved By:

Approved By:

Contractor – CSI Engineering

Shirley Concolino, City Clerk

This Form Has Been Approved By the City Attorney's Office (10-4-96) for Change Orders that do not require City Council Approval. A City Attorney signature is required if any changes or alterations are made to this form.

CITY OF SACRAMENTO
CHANGE ORDER
EXHIBIT A

Contract # & Date: CO 2013-1138 11/26/13
Purchase Order #:

Budget#: 6006-50000-51000000- X14010052
Change Order No: 1

Due to recent update in the Combined Sewer System Long Term Control Plan, it is recommended that the proposed pipe in 20th Street, originally scoped as 12-inch pipe for this project, should be installed as a 36-inch pipe. Three of the proposed manholes will need to be Manhole No. 4s, rather than Manhole No. 3s, based on the increased pipe diameter. Contractor is willing to make this change. Work not included in the Items of the Proposal, have been negotiated with the Contractor, based on the estimated quantities for proposed changes to the scope.

- | | | | |
|----|---|------------------|--------------|
| 1) | Bid Item #3, "8-inch Sewer Pipe to Remove, 12 inch Sewer Pipe to Place" decrease quantity by 245 LF @ \$102.00/LF.
(Database Code: Unforeseen Conditions) | Total This Item: | \$ 24,990.00 |
| 2) | Bid Item #4, "12-inch Pipe to Construct" decrease quantity by 220 LF @ \$130/LF.
(Database Code: Unforeseen Conditions) | Total This Item: | \$ 28,600.00 |
| 3) | Bid Item #7, "Manhole to Remove and Manhole No. 3 to Construct" decrease quantity by 1 EA @ \$8,000/EA.
(Database Code: Unforeseen Conditions) | Total This Item: | \$ 8,000.00 |
| 4) | Bid Item #8, "Manhole No. 3 to Construct" decrease quantity by 2 EA @ \$9,500/EA.
(Database Code: Unforeseen Conditions) | Total This Item: | \$ 19,000.00 |

Net Deductions: **\$-80,590.00**

Extra Work Items:

- | | | | |
|----|--|------------------------------|-------------------|
| 5) | Extra work based on the estimated quantities for proposed changes to the scope. | | |
| | 36-inch Sewer Pipe to Construct (including removal of existing 8-inch Sewer Pipe where applicable), 470LF @ \$420.00/LF. | Total This Item: | \$197,400 |
| | Manhole No. 4 to Construct, 3 EA @ \$13,000/EA. | Total This Item: | \$39,000 |
| | | Net Extra Work Items: | \$ 236,400 |

- 6) To cover time required to execute this change order, and to cover increased time needed to construct the items of work in this change order, 40 working days are added to this contract.

Total This Change Order: **\$ 155,810**