

“Placerville, a Unique Historical Past Forging into a Golden Future”



City Manager's Report
June 25, 2019 City Council Meeting
Prepared by: A. Cory Schiestel, Associate Civil Engineer

Item #: 12.2

Subject: Adopt a Resolution:

1. Ratifying Contract Change Orders (CCOs) #1, #2, #3, #4, #5, & #6 in the total aggregate amount of \$51,830 with C.E. Cox Engineering, Inc. for the Sierra Tank Bypass Project (CIP #41404); and
2. Approving a \$11,570 budget appropriation in El Dorado Irrigation District revenues for the said project; and
3. Approving a \$9,230 budget appropriation from the Water Enterprise Fund unassigned fund balance for the said project; and
4. Authorizing the City Engineer to execute a Notice of Completion and instructing the City Clerk to record said Notice with the El Dorado County Recorder's Office for the Sierra Tank Bypass Project (CIP #41404); and
5. Authorizing the Assistant City Manager/Director of Finance to release all remaining retention being held for construction security, not more than sixty (60) days after the Notice of Completion filing for the said Project, per Public Contract Code 7107(c).

Purpose: Ratification of approved Contract Change Orders (CCOs) #1 through #6, and to issue a Notice of Completion for the construction of the Sierra Tank Bypass Project which has been completed in substantial conformity with the bid plans and specifications meeting all City design standards.

Background:

The City's Fiscal Year 2013/2014 Capital Improvement Program Budget (CIP) included five water system projects funded by the Measure H sales tax. Among the five projects, the Sierra Tank Bypass Project (CIP #41404) was included.

The Project removed an outdated 125,000 gallon water storage tank, hydropneumatic pressure tank, cast iron sand filters, booster pumps, and pump house. These facilities were replaced by two new parallel 6-inch ductile iron water mains (tank bypass), and a new pressure reducing station (PRS) and enclosure. Also included in the project scope was a new 6-inch bulk water meter, precast vault, and appurtenances to be reimbursed by written agreement with El Dorado Irrigation District (EID).

On April 24, 2018, the City Council approved the reimbursement agreement with EID and authorized staff to release the contract documents for public bidding with the bid opening held on May 24, 2018. The City Council approved award of the construction contract to C.E. Cox Engineering Inc. on November 13, 2018 for \$421,860. Construction of the project concluded on June 7, 2019.

Discussion:

Engineering staff is requesting City Council ratification of the following contract change orders:

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S:\City Council Agenda and Minutes\cc meetings 2019\cc meeting 20190625\12.2_SR 06-25 Sierra Tank Bypass - NOC & CCOs - SR (CS,DW,RN).docx

Contract Change Order (CCO) #1: \$23,880 – Substitution of 4-inch Pipe with 6-inch Pipe

This CCO provides for the installation of an additional 102 LF of 6-inch ductile iron pipe (DIP). Of the extended total 102 LF, 19 LF is due to unexpected conflicts discovered in the field, an additional 19 LF was required on the EID side of the bulk meter and will be invoiced to EID, and 64 LF was the substitution of 4-inch DIP for compliance with EID minimum standards. As a result of this CCO, 64 LF of 4-inch DIP and two (2) gate valves were eliminated from the project budget. The net increase of this change is \$23,880.00.

Contract Change Order (CCO) #2: \$(2,994) – Miscellaneous Line Item Adjustments

This CCO is the result of the combination of the elimination and addition of the following line items: Five (5) CY of hard rock excavation and 34 LF of proposed curb & gutter replacement were removed from the project scope. Conversely, one (1) vehicular bollard and one (1) new 2-inch dead end blow-off valve were added to the project scope. The net result of this change is a credit of \$2,994.00.

Contract Change Order (CCO) #3: \$4,770 – Water Service to the former Sierra Golf Course

This CCO provides for the replacement of the 1.5-inch water service to the former Sierra Golf Course. The existing steel service was discovered to be in conflict with both new bypass mains and in poor condition. Staff directed the contractor to cut the service, removing the conflict, and replace with a new 1.5 inch polypropylene service, saddle, corp stop, and tracer wire after installation of the new mains. The net increase of this change is \$4,770.00.

Contract Change Order (CCO) #4: \$8,000 – Residential Pressure Regulators

This CCO provides for the installation of eight (8) residential pressure regulators and water meters. Eight (8) addresses in the Country Club pressure zone were identified to require the installation of pressure regulators so that the new PRS operating pressure could be increased to an optimal operating range, improving the performance of the PRS, and increasing water pressure for homes and fire hydrants throughout the pressure zone. The net increase of this change is \$8,000.00.

Contract Change Order (CCO) #5: \$2,000 – EID Bulk Water Meter (Disinfection Procedure)

The City included a new bulk water meter in the scope of the project at the request of EID. This CCO was the result of the combination of additional disinfection requirements requested by EID to those included in the original bid documents, a failed residual chlorine test, and subsequent re-disinfection operation and re-testing. After the residual chlorine testing failure, EID directed the City to perform disinfection operations again and verbally agreed to reimburse the City for half the cost. The net increase of this change is \$2,000.00 which will be included in the final invoice sent to EID per the EID bulk water meter reimbursement agreement 5/30/18.

Contract Change Order (CCO) #6: \$16,174 – Additional Slurry Seal and Striping

This CCO provides for the extension of slurry seal limits to cover trenching related to the project. At the conclusion of the project, before slurry seal placement, Staff determined that extending the original slurry seal and striping limits would provide improve the roadway surface impacted by trenching and create a more uniform appearance, and extend the service life of more existing pavement on Country Club Drive adjacent to the project area, so the contractor was directed to place an additional 8,087 SF of slurry seal. The net increase cost of this change is \$16,174.00.

Memorandums containing detailed explanations for each of these CCOs are attached to this staff report.

Options:

1. Proceed as recommended by staff.
2. Direct staff to negotiate additional changes to the contract and return to the Council.

Cost:

The total cost for CCOs #1, #2, #3, #4, #5, & #6 with C.E. Cox Engineering, Inc. is \$51,830.

Budget Impact:

The City Council adopted the Fiscal Year 2013/2014 Capital Improvement Program Budget which appropriated \$57,500 for the Sierra Tank Bypass Project (CIP #41404). At its regularly scheduled meeting on November 13, 2018, the Council approved \$507,700 in additional budget appropriations for a total project budget of \$565,200. In order to finish the project, staff is recommending an additional \$11,570 budget appropriation in El Dorado Irrigation District revenues and an additional \$9,230 budget appropriation from the Water Enterprise Fund unassigned fund balance for a total project budget of \$586,000. The current and proposed revenue and expenditure project budgets are shown below:

Funding Source	Revised Project Budget	Proposed Project Budget	Increase/ (Decrease)
Measure H Fund	\$ 57,500	\$ 57,500	\$ -
Measure L Fund	497,300	497,300	-
Water Enterprise Fund	-	9,230	9,230
EID Agreement Reimbursement	10,400	21,970	11,570
Total	\$ 565,200	\$ 586,000	\$ 20,800

Description	Revised Project Budget	Proposed Project Budget	Increase/ (Decrease)
Construction	\$ 421,860	\$ 473,690	\$ 51,830
Construction Engineering	13,700	13,700	-
Construction Management/Inspections	46,000	98,610	52,610
Contingency	83,640	-	(83,640)
Total	\$ 565,200	\$ 586,000	\$ 20,800

To date, the following costs have been encumbered by the project:

C.E. Cox General Engineering, Inc. (Original Contract)	\$ 421,860
C.E. Cox General Engineering, Inc. (Proposed Change Order No. 1)	23,880
C.E. Cox General Engineering, Inc. (Proposed Change Order No. 2)	(2,994)
C.E. Cox General Engineering, Inc. (Proposed Change Order No. 3)	4,770
C.E. Cox General Engineering, Inc. (Proposed Change Order No. 4)	8,000
C.E. Cox General Engineering, Inc. (Proposed Change Order No. 5)	2,000
C.E. Cox General Engineering, Inc. (Proposed Change Order No. 6)	16,174
Domenichelli & Associates, Inc. (Original Agreement)	7,065
Domenichelli & Associates, Inc. (Amendment No. 1)	13,700
John Driscoll, City Attorney	225
Mountain Democrat	193
City Staff Time	89,962
Total	\$ 584,835

As you can see, the \$584,835 in total project encumbrances, including the \$51,830 aggregate amount for CCOs #1, #2, #3, #4, #5, & #6 with C.E. Cox Engineering, Inc., is within the current \$586,000 proposed project budget.

Recommendation:

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2. Approving a \$11,570 budget appropriation in El Dorado Irrigation District revenues for the said project; and
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5. Authorize the Assistant City Manager/Director of Finance to release all remaining retention being held for construction security, not more than sixty (60) days after the Notice of Completion filing for the said Project per Public Contract Code 7107(c).



M. Cleve Morris, City Manager



Rebecca Neves, City Engineer

Attachments:

- A. Resolution
- B. CCOs #1, #2, #3, #4, #5, & #6
- C. Draft Notice of Completion