



Staff Report

TO: City Council
FROM: Kristine Day, Assistant City Manager
DATE: December 15, 2020
SUBJECT: **City Council Approval of Contract Amendment No.1 for Albert A. Webb Associates for the Wastewater Treatment Plan Engineering Services During Construction in an Amount not to Exceed \$487,781**

Background and Analysis:

Construction of the City's new wastewater treatment plant (Plant) and brineline began in October 2018. Since that time, the Webb team (WEBB Associates, AQUA Engineering, SKM, Inc., and Kleinfelder) have been providing engineering services during construction (ESDC). Webb has also been performing SCADA upgrades, which includes implementing a completely new SCADA system throughout the entire system. Their total contract value for this work is \$3,067,793 and is allocated toward the project tasks as shown below.

WWTP ESDC	\$1,138,112
SCADA Upgrades	\$1,069,719
Brineline ESDC	\$ 360,856
Program Management	\$ 499,106
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Total	\$3,067,793

The Plant construction project was divided into two phases with the second phase scheduled for completion in January 2021. Phase 1 of the Plant construction has been completed and began accommodating full wastewater flow earlier this year. Brineline construction was also divided into two phases identified as Reaches 1 and 2. It was anticipated that these two reaches would both be completed in February 2021. The Plant construction timeline for Phase 2 is expected to extend 7 months with an anticipated completion date of July 2021. The completion of Reach 1 of the brineline extended 3 months to May 2020. The completion of Reach 2 of the brineline extended

5 months to July 2020. To date Webb has expended \$2,794,786 (approximately 91% of the total budget for ESDC, SCADA programming and Program Management).

Webb is estimating that there is approximately \$760,000 of remaining effort (including SCADA programming) to complete their work on these projects. Their remaining budget is approximately \$273,000, which leaves an estimated shortfall of \$487,000. During the past 22 months their team has performed a significant amount of extra work that was not included in our original scope of work. They will also incur additional costs due to the extension of the construction contract beyond the original completion date. This extra work and contract extension have depleted their budgets necessitating a contract amendment. The details for the major items of extra work are included below along with the associated costs.

1. Project Meetings – The assumptions regarding meetings from the original proposal were as follows. Webb assumed that four people, with an average billing rate of approximately \$191/hr, would attend the 116 weekly construction meetings. They assumed 524 hours for this task with a total budget of \$100,225. The 7 months extension of the schedule will lead to 30 additional weekly meetings. The total extra work for project meetings is approximately \$22,900.

2. Commissioning Meetings – The Construction Manager and Contractor have set up weekly and daily commissioning meetings leading up to and during the commissioning of the Phase 1 work. There have been 27 meetings to date. These weekly calls typically last 1 hour and are attended by 5 members of the Webb team. They anticipate 10 more weekly commissioning meetings through the end of Phase 2. In addition, there have been 6 weeks of daily commissioning activity calls at 7am. These meetings are generally attended by 2-3 members of their team. They anticipate that there will need to be 2 more weeks of these meetings through the end of Phase 2. These meetings were not included in the original budget. The total extra work for commissioning meetings equals $\$25,920 + \$9,600 + \$12,525 + \$4,175 = \$52,220$.

3. Submittal Review – The original budget included the review of 600 submittals with a budget of \$316,100 (approximately \$527/submittal). To date they have received and reviewed approximately 560 submittals and resubmittals with an estimated 200 more to complete the project. The extra work associated with the additional 160 submittals equates to \$84,320.

4. Design of Additional Facilities – During the course of construction, the City Council has authorized added facilities that were not included in the original design. These additional facilities are characterized as “betterments” to the Plant (meaning that they are improvements to the facility and not redesign tasks). The Plant betterments include: A. modifying the MBR system to upgrade the aeration system, B. adding a new EQ

Basin Pump Station and reconfiguring the associated piping, C. adding bulk chemical storage tanks and pumping equipment at the MBR building and Plant effluent areas, D. piping changes to accommodate a future recycled water pump station on the property immediately north of the Plant, E. changes to the MBR building to accommodate changes to the chemical feed systems, F. changes to the Plant instrumentation to accommodate new HACH analyzers and wireless access points, G. evaluation the existing UV system and the opportunity of installing a new UV system. The cost associated with all of the analysis, coordination with operations staff, coordination with the contractor, and engineering design was roughly \$208,000.

5. Permitting Assistance and Utility Coordination – Webb budgeted \$177,470 for permitting assistance for the brineline and Plant. This assistance included processing permit applications with various regulatory and environmental agencies. To date, they have spent \$264,700. All of the permits have been secured for the brineline, Plant, and Inland Empire Brine Line. In addition to regulatory permitting with the Army Corp of Engineers, Department of Fish and Game, County of Riverside, County of San Bernardino, City of San Bernardino, City of Redlands, City of Loma Linda, Regional Water Quality Control Board, California Department of Drinking Water, and Southern California Air Quality Management District the team has been working with utility providers such as Frontier Communication, SoCal Gas, Edison, and Beaumont Cherry Valley Water District to get utilities established at the Plant. The extra cost for this work is \$88,231.

6. Project Management/Program Management – The original budget for overall project management of the Engineering Services during Construction and Program Management to help the City manage the entire project was \$124,000 for the 27-month construction schedule, which equals approximately \$4,600 per month. Based upon the 7-month extension of the construction contract their additional project management costs will increase by \$32,200.

The total of the extra work completed to date and anticipated through July 2021 is \$487,871. Webb is requesting that their total contract be increased by \$487,871 in order to replenish the budgets that have been depleted due to the extra work completed to date.

Fiscal Impact:

Due to the magnitude of the Plant and brineline construction the City withheld approximately \$4 million of available project funds on an unallocated status in the event additional work or modifications would be needed or desired. This change, if approved, will require the funds to be moved from unallocated to the appropriate category of design.

WWTP	Budget Amount	Paid to Date	Remaining
Design	\$2,697,942.63	\$2,556,828.66	\$141,113.97
Construction Management	\$5,082,475.75	\$4,905,144.68	\$177,331.07
Equipment	\$252,906.00	\$256,216.13	\$(3,310.13)
Permits	\$324,776.76	\$117,566.12	\$207,210.64
Construction	\$53,910,737.00	\$39,224,465.26	\$14,686,271.74
Contingency	\$4,000,000.00	\$1,571,627.37	\$2,428,372.63
Unallocated	\$4,065,594.24	\$0.00	\$4,065,594.24
Total	\$70,334,432.38	\$48,631,848.22	\$21,702,584.16

Recommended Action:

Approval of Contract Amendment No.1 for Albert A. Webb Associates for the Wastewater Treatment Plan Engineering Services during construction in an amount not to exceed \$487,781.

Attachments:

- A. Contract Amendment No.1 for Albert A Webb Associates