



## DEPARTMENT OF TRANSPORTATION

Fresno Area Express ♦ Fleet ♦ Handy Ride

DATE: October 29, 2020

TO: FILE, FAX EV Fleet Charging Infrastructure: Charger/Wiring redesign Change Order

FROM: Brian Cetti, Capital Development Specialist – Fresno Area Express (FAX)

SUBJECT: COST ANALYSIS, EV Fleet Charger and Power Management Fee Change Order

### Summary

The following cost analysis was performed on the Stantec proposal dated October 28, 2020. The Independent Cost Estimate (ICE) for this project's change order is \$17,754.00 and is used as a basis for the analysis. The proposed amount of Stantec's EV Fleet Charger redesign change order is \$15,294.00. The development of the final proposal has been deemed fair and reasonable for this change order to redesign the electrical distribution for the proposed Bus Charger change to 150KW chargers. This design provides a more efficient use and upgrade to the current technology of bus charging infrastructure. The ICE is attached to this document. This change is within the general scope of work of the contract.

### Labor Hours

Stantec is utilizing minimal engineering classifications to complete the work associated with this change order: ie Principal Engineer, Project Manager, Project Engineer, and CAD Designer., Stantec's allowances for this scope change are fair and reasonable. FAX assumed slightly more hours for engineering classifications from different disciplines for this proposal. There is no fault to either determination for engineering hours needed, as it is largely determined by means and methods of completing the scope of work. When comparing FAX's ICE for the project labor hours for the EV Fleet charger redesign for the 150 KW chargers, it was assumed that additional engineering classifications and hours would be needed from Stantec. FAX's estimate of 106 total hours is slightly higher than Stantec's proposed 98 total hours.

This can be attributed to FAX slightly overestimating the level of engineering design and support during construction. Stantec has proposed minimal additional hours and engineering classifications to complete these separate design and support requirements.

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The proposed hours to complete the design and the abilities of the staff being utilized for this project are considered appropriate for the completion of the required scope. In conclusion, the labor hours in the proposal are deemed fair and reasonable.

### **Labor Rates**

The ICE assumed FAX would be paying for multiple skilled labor classifications. The labor rates range from \$85.93 to \$257.14 per hour for Clerical to Principal Project Management respectively. These rates are identical to the negotiated rates agreed upon in May 2018 for the base contract. Because these rates were previously approved by FAX and no changes were requested, FAX continues to deem them fair and reasonable for this scope change, as rates may have increased due to inflation.

### **Overhead**

Stantec's overhead for this project is set at 160.4%, which is identical to their approved rates from May 2018. Stantec has not requested any increases in rates from what was approved for their previous Amendment. This rate, having been deemed fair and reasonable, remains the same for this scope change. Furthermore, the indirect rates will be audited at the completion of their contract.

### **Fee**

The fee utilized in calculating this amendment is 10%. The fee rate applied for this category is considered fair and reasonable based upon the risk associated with this new stand-alone project package versus when it was all combined into a single larger project.

### **Technical Expertise**

Brian Cetti performed the above cost analysis evaluations. Previous experience includes nineteen years working as a project manager for three large government contractors in the State of California. He has a Bachelor's degree in Chemistry from Cal State University Fresno.

Signature: Brian Cetti

Date: 11/6/2020