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CITY OF LAKE ELSINORE
130 South Main Street
Lake Elsinore, California 92530

April 1, 2022
Proposal No. 1-22-038R

Attention: Mr. Carlos Norvani

Subject: **REVISED COST ESTIMATE FOR GEOTECHNICAL SERVICES**
SB-1 Downtown Pavement Resurfacing Project,
City Project Z-10059,
City of Lake Elsinore, California

Dear Mr. Norvani:

Alta California Geotechnical, Inc. (Alta) is pleased to present this revised cost estimate to provide geotechnical testing services during the SB-1 Downtown Pavement Resurfacing Project, City Project Z-10059, in the City of Lake Elsinore. The scope of services is based upon review of the pavement rehabilitation plans provided by you, assumed construction schedules, and our knowledge of similar type projects in the general vicinity.

The project includes pavement rehabilitation throughout various streets in the city. It is anticipated a technician will be required to be onsite to test grading associated with street widening, subgrade, aggregate base, and asphalt placement. It is anticipated that a technician will not be required to be onsite during crack sealing and subsequent slurry sealing. We based technician hours on the assumption that full time observation and testing will be required during grading for street widening and asphalt placement, while part-time (on-call) observation and testing will be required for subgrade and aggregate base compaction. Once a final schedule has been developed, a revision to this cost estimate may be required. It is our understanding the project will be Prevailing Wage.

Presented below is a description of the scope of services that are anticipated at this time.

Observation and Testing

This cost estimate provides for observation and testing services during the pavement rehabilitation. Geotechnical observation and testing during the subject improvements will consist of the following:

- Observation and testing of grading for street widenings. We have assumed a technician will be required for 16 hours during grading.
- Observation and testing of subgrade, aggregate base and asphalt placement. We have assumed 304 technician hours for street rehabilitation operations based on the plans provided and typical contractor production schedules.
- Laboratory testing in support of the pavement operations. Our costs include 4 maximum density/optimum moisture tests, 4 grain size analyses tests, 4 asphalt-content tests, 4 abrasion tests for slurry, and 4 R-Values.
- Preparation of one (1) final report of the observations collected during the proposed improvements. Three (3) copies of the reports will be provided to you.

The total cost estimate for these services is **\$56,400.00**. A detailed cost breakdown can be provided upon request. The above costs are based on an estimated 320 hours of field technician time (Prevailing Wage) with corresponding level of office staff support, laboratory testing, and reporting. Once final improvement schedules have been provided, revisions to this portion of the cost estimate may be required.

During construction operations, eight-hour days and five-day workweeks have been incorporated into this cost estimate. Should the contractor elect to work in excess of eight hours a day or should they work Saturdays, Sundays or Holidays, an overtime factor 1-¼ times the hourly rate will be applied.

The above costs are based upon assumed times to complete the various tasks. No allowance has been made for conference time. Conference time will be billed in accordance with the attached **FEE SCHEDULE**. Fees will be billed on a time and materials (T&M) basis, utilizing the attached **FEE SCHEDULE** but will not exceed the estimated amount unless the scope of the project changes or without your prior authorization

This proposal assumes that the project would be characterized as "Public Works" by the State Department of Industrial Relations and, therefore, would fall under the current interpretation of the California prevailing wage law.

Alta California Geotechnical, Inc., appreciates the opportunity to present this proposal. We will be happy to meet with you regarding the project at your convenience. Should you have any questions, please contact the undersigned at our Corona office.

Respectfully submitted,
Alta California Geotechnical, Inc.



SCOTT A. GRAY
Registered Geotechnical Engineer
President

Distribution: (1) Addressee
Attachments: Fee Schedule

SAG: 1-22-038R April 1, 2022 (Revised Cost Estimate Downtown Pavement Resurfacing City of Lake Elsinore project Z-10059)



SERVICE FEE SCHEDULE

HOURLY PERSONNEL

Project Engineer & Geologist	\$	140.00
Registered Civil Engineer & Engineering Geologist	\$	125.00
Civil Engineering & Engineering Geology Associate	\$	100.00
Senior Soils Technician	\$	82.00
Soils Technician	\$	74.00
Soils Technicians (prevailing wage)	\$	120.00
Deputy Inspection	\$	80.00
Deputy Inspection (prevailing wage)	\$	120.00
Laboratory Technician	\$	72.00
AutoCAD Draftsperson	\$	80.00

LABORATORY

Max. Den. / Opt. Moist.	\$	144.00	"R"-Value	\$	275.00
Direct Shear	\$	144.00	Concrete Testing	\$	40.00/Break
Moisture & Density	\$	19.00	Density - rock or chunk	\$	70.00
A.S.C.E. Swell Index	\$	106.00	Atterberg Limits	\$	144.00
Consolidation	\$	144.00			
Full Gradation	\$	144.00			
Hydrometer	\$	54.00			
Sieve	\$	72.00			
Sand Equivalent	\$	77.00			
Specific Gravity	\$	72.00			

ADDITIONAL CHARGES

Field Vehicles	\$	12.00 / hr
Nuclear Gauge	\$	7.00 / hr
Equipment Rental		quote
Reprographics		quote
<i>Per Diem</i>		quote

December 2021