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November 4, 2020
Proposal No. 20-21660

MR. ANDREW SIMMONS, P.E.
CITY ENGINEER
CITY OF COACHELLA
53990 ENTERPRISE WAY
COACHELLA, CALIFORNIA 92236

SUBJECT: Budget Estimate for Geotechnical Investigation
Fire Station Expansion
1377 6th Street, Coachella, California

Dear Mr. Simmons:

In accordance with your request, Atlas Technical Consultants LLC (Atlas) is pleased to present this budget estimate to provide a geotechnical investigation for the subject project. We understand the project will consist of the design and construction of an addition to the existing Coachella Fire Station located at 1377 6th Street in Coachella, California. The project is overseen by the City of Coachella. In developing this proposal, we reviewed project documents, aerial imagery, and readily available geologic literature for the site.

SCOPE OF WORK

Our scope of work will consist of performing a geotechnical investigation to assess existing conditions at the site and provide geotechnical information to be used in project design. Specifically, our services will consist of:

- Coordinating site access with you and City of Coachella personnel
- Marking proposed boring location for DigAlert purposes
- Clearing the proposed boring locations of potential subsurface conflicts with a private utility locator
- Drilling one boring using a truck-mounted hollow-stem auger drill rig within the existing landscape area near the proposed addition. The boring will be drilled to depth of approximately 50 feet below grade, or refusal
- An Atlas engineer will log and sample the subgrade materials encountered in the boring for examination and laboratory testing
- Backfilling the boring in accordance with regulatory requirements and drill cutting generated during the fieldwork will be placed in drums and left on site pending disposal by others



- Performing laboratory testing to assess grain size, moisture content, and relevant engineering properties
- Engineering analysis to provide geotechnical recommendations

The results of the field and laboratory programs will be evaluated to develop conclusions and recommendations regarding:

- Subsurface conditions beneath the site, including groundwater levels if encountered
- Site preparation and grading
- Excavation characteristics
- Backfill placement and compaction
- Support for concrete flatwork
- Foundation recommendations
- Soil corrosivity

Results of the investigation will be summarized in a written report complete with field and laboratory data. An electronic copy of the report will be submitted.

We understand that an environmental investigation and remediation activities were conducted at the project site between 1986 and 2004 due to an unauthorized release of petroleum hydrocarbons from a former underground storage tank into soil and groundwater. The project site was issued a “no further action required” letter in 2004 by the County of Riverside Department of Environmental Health. The scope and fee presented in this proposal does not include the assessment, handling, storage, or management of potentially hazardous waste. Cuttings generated during our field work will be placed in 55-gallon drums and left on site pending disposal by others.

COST INFORMATION

We will provide the outlined scope of work for a lump-sum fee of **\$15,750**. The attached Budget Estimate Summary presents a breakdown of our fee. If site specific seismic design criteria in accordance with 2019 CBC is required, Atlas will provide that service for an additional \$2,200. Our fee is based on our existing On-Call Service Agreement with the City of Coachella and the understanding that this project is subject to prevailing wage law. All subsequent communications with your consultants, contractors, or governmental agencies will be charged in accordance with the attached fee schedule.

SCHEDULE

We will begin our investigation immediately upon receipt of notice to proceed. We will coordinate site access, mark the boring locations, and notify Underground Service Alert (USA) within one week of receipt of Notice to Proceed. USA requires 48 hours’ notice before excavation can start. We anticipate that the field work can be completed within two weeks of obtaining site access.



Laboratory testing can be finished within two weeks of completing the field work. The report can be submitted within two weeks of completing the laboratory testing.

AUTHORIZATION

This proposal is valid for 90 days. Atlas will accept authorization to proceed upon approval of this proposal with your notice and will proceed with the field and laboratory testing with a signed contractual instrument.

CLOSURE

We appreciate the opportunity to prepare this proposal and look forward to working with you on this project. If you have any questions, please contact our office at (619) 280-4321.

Respectfully submitted,
ATLAS TECHNICAL CONSULTANTS LLC

A handwritten signature in blue ink that reads "D. A. Skinner".

Douglas A. Skinner, PG, CEG
Senior Geologist

A handwritten signature in blue ink that reads "Daniel Marino".

Daniel Marino
Senior Client Services Manager

DAS:DM:af

Attachment: Budget Estimate Summary

Distribution: Addressee via email at asimmons@coachella.org

BUDGET ESTIMATE SUMMARY GEOTECHNICAL INVESTIGATION

	Estimated Hours/Unit		Rate/Unit	Total Cost
FIELD INVESTIGATION - 1 boring up to 50 feet				\$7,932.00
Field Coordination Mark Out, Project Manager	6 hours	@	\$128.00 /hour	\$768.00
DEH Boring Permit Fee	1 each	@	\$200.00 /permit	\$200.00
DEH Permit Application, Staff Geologist	2 hours	@	\$106.00 /hour	\$212.00
Logging and Sampling, Staff Geologist	12 hours	@	\$106.00 /hour	\$1,272.00
Hollow-Stem Auger Drill Rig	1 day	@	\$3,840.00 /day	\$3,840.00
Borehole Clearance Mob	1 mob	@	\$275.00 /each	\$275.00
Borehole Clearance	6 hours	@	\$215.00 /each	\$1,290.00
Backfill Supplies	1 boring	@	\$75.00 /boring	\$75.00
LABORATORY TESTING				\$1,962.00
Moisture & Density Rings	6 tests	@	\$35.00 /test	\$210.00
Sieve Analysis	4 tests	@	\$90.00 /test	\$360.00
Atterberg Limits	4 tests	@	\$127.00 /test	\$508.00
Direct Shear	2 tests	@	\$260.00 /test	\$520.00
Expansion Index	1 test	@	\$177.00 /test	\$177.00
Corrosivity (Sulfates, Chlorides, pH, Resistivity)	1 test	@	\$187.00 /test	\$187.00
ANALYSIS AND REPORT PREPARATION				\$5,856.00
Staff Professional, Report	20 hours	@	\$106.00 /hour	\$2,120.00
Senior Professional, Report	18 hours	@	\$155.00 /hour	\$2,790.00
Principal Professional, Report	2 hours	@	\$180.00 /hour	\$360.00
Drafter	6 hours	@	\$77.00 /hour	\$462.00
Administrative Assistant	2 hours	@	\$62.00 /hour	\$124.00
TOTAL FOR GEOTECHNICAL INVESTIGATION				\$15,750.00