

# **CITY OF MISSION**

## **Scope of Service**

### **On-Call Geotechnical and Material Testing Services**

#### **I. Scope: Objective of This Request For Qualifications**

The purpose of this Request for Qualifications (RFQ) is to short-list a Firm(s) to provide on-call geotechnical and materials testing services for infrastructure projects within the City of Mission and its extraterritorial jurisdiction. The City's intent is to identify geotechnical and materials testing Firm(s) that have the capability to provide these services on a consistent basis in compliance with the City's geotechnical and materials testing requirements. The selected Firms will be identified on a "List" as an approved supplier for these services.

- II.** The selected Firm will provide these services to the City project based on an agreed-upon fee schedule established between the City and selected Firms as part of this RFQ process.
- III.** The selected Firms will be required to work closely with the City (or their Contractor) for scheduling of all services on the project. The selected Firm will provide "test" reports to both the Contractor and City staff. The selected Firm may be required to submit a "Utility Release Letter" to the City at the end of each utility work (and before liming of the subgrade proceeds) indicating that in place moisture and density tests on the backfill material placed in utility trenches (including franchise) has been performed in general conformance to the City of Mission specification and contract requirements. The selected Firm may also be required to submit a "Materials Testing Summary Letter" at the end of the project indicating that all the testing required by the City specification has been performed for the project. Both the "Utility Release Letter" and the "Materials Testing Summary Letter" shall be sealed and signed by a professional engineer.
- IV.** The City has a strong preference for local Firms that perform typical geotechnical investigation, and construction materials testing services (soils, aggregates, Portland cement concrete; Hot mix asphalt concrete, compaction, and other construction materials) on infrastructure projects.
- V.** RFQ for Geotechnical Engineering and Material Testing Services for Infrastructure Projects. The scope of work may include, but not limited to, the following:

Performance of all plant, field and laboratory material tests including the following:

- Asphalt field Density
- Soil-Moisture relationship or Proctor test
- Unit Weight Test
- Atterberg Limits Test
- Soil Lineal Shrinkage Test
- PH Series
- Texas Wet Ball Mill (WBM) Test
- Grain Size Analysis
- P200 Sieve Analysis
- Gradation:
  - Rock – Crushed Stone for Embedment LAA (Los Angeles Abrasion)
  - Sand – Backfill Water & Sewer
  - Lime/Cement Field Gradation

- Core:
  - Test Hole Analysis
  - Concrete
  - Asphalt
- Concrete Compression Test:
  - Cylindrical concrete specimens
  - Drilled Cores
- Other construction material testing as needed.

Preview plans and specifications for assigned project prior to testing and inspection.

Prepare daily construction progress reports.

Take samples of materials for examination or analysis to laboratories; schedule routine materials and density field tests to assure material and workmanship quality; coordinate results of tests.

Observe work during progress and upon completion.

Perform preliminary and final testing and inspections on routine construction projects; provide input on acceptance of developments.

Prepare various testing and inspection reports as required; maintain files and reports regarding testing and inspection and plan check activities and findings.