

SERVICE: GEOTECHNICAL ENGINEERING

Investigate on-site soil and rock properties and make recommendations on the use of those materials for structures normally associated with road and flood control improvements.

Minimum Qualifications

Firms must complete the submittal section Geotechnical Testing Qualifications.

Firm Experience

- Identify and list specific accreditations achieved by the firm or the laboratory.
- Demonstrate the personnel and equipment to perform drafting and automated mapping. Firms, furthermore, shall be capable of providing maps, surveys, and engineering plans on electronic media storage in AutoCAD® format.

Employee Experience

Category A: Nevada Professional Engineer on staff who is in responsible charge of the work with experience listed below. Non-staff engineers are prohibited.

- Engineering either five years or five projects experience providing such a service, with a minimum experience of at least three years and three projects successfully completed in this service.

Category B: Not more than twenty percent of the submitted "B" category employees performing a service shall have less than three years experience. All these employees should have a Bachelor's Degree in Engineering (or equivalent for non-engineers) and have worked on not less than three projects performing this same service.

All laboratory and field technicians shall be certified (where applicable) under Nevada Alliance for Quality Transportation Construction (NAQTC) including the extended modules for Marshall mix design. This program includes ACI certification for concrete field sampling and laboratory concrete breaks. Indicate on

the resume the modules for each technician and/or engineer.

In general, a professional engineer license cannot be a substitute for a NAQTC certification, however, for geotechnical exploratory drilling, the acquisition of field samples does not require a NAQTC certified technician.

Geotechnical Testing Capability

- All tests and procedures shall be performed in accordance with standard AASHTO / ASTM methods, where applicable.
- The laboratory shall be AMRL or CMEC R-18 AASHTO accredited that include the following appropriate requirements: ASTM D3666, ASTM D3740, and ASTM C1077.
- The laboratory shall be AASHTO accredited for each individual test method performed. The accreditation shall be current at the time of submittal and at the time actual testing is performed.