

## **SECTION 01400 QUALITY CONTROL**

### **PART 1 - GENERAL**

#### **1.01 DESCRIPTION.**

This Section covers quality control requirements supplementary to those of the General Conditions and other Sections of the Specifications.

#### **1.02 QUALITY ASSURANCE.**

A. Testing Laboratory Qualifications. Whether employed by the Owner or Contractor, the Testing Laboratory shall be licensed to conduct and perform testing services in the State and jurisdiction where the Work is located. All testing shall be performed under the direct supervision and control of a qualified registered professional engineer employed by the laboratory.

B. Foundation or Soils Engineer. The Owner will employ and pay for the services of Civil Engineer registered in California specializing in Foundation or Soils Engineering to observe the specified portions of the Work and to supervise or perform testing pertaining to the observed Work.

C. Requirements of Regulatory Agencies. The Testing Laboratory will perform tests required by the regulatory agencies at no cost to the Contractor. All other inspections and approvals required by the agencies shall be furnished by the Contractor at his expense.

D. Source Quality Control. To the extent specified herein or in other Sections, the Testing Laboratory shall obtain samples of various materials at the source of supply and test the materials for compliance with the Contract Documents. The Testing Laboratory shall tag, seal, label, or otherwise suitably identify the bulk materials so sampled, and no such materials shall be used in the Work until the test reports are submitted to and approved by the Owner. The applicable tests shall be repeated at the specified intervals, whenever the source of supply is changed, or whenever the characteristics of the materials change or vary in the opinion of the Owner.

E. Factory Test Witnessing. To the extent specified or ordered by Owner, the Testing Laboratory shall witness testing performed at the factory or supplier's test facility. Unless otherwise specified, the Owner will pay the cost of factory test witnessing.

F. Inspection. The Contractor shall give the Owner not less than 10 working days written notice whenever his operations require the services of more than one Inspector. To the extent specified, the Testing Laboratory shall furnish specially qualified inspectors for various field inspections.

### **1.03 SUBMITTALS.**

A. Laboratory Test or Inspection Reports. Each report shall be signed and certified by the supervising engineer of the Testing Laboratory. Unless otherwise specified, the Testing Laboratory shall submit 5 copies of each report to the Owner.

B. Foundation or Soils Engineer's Reports. These reports shall be certified and submitted to the Owner. A copy of each report will be furnished to the Contractor by the Owner.

C. Schedule of Testing Laboratory Services. The Contractor shall submit a schedule giving the dates and duration that the Testing Laboratory shall perform testing services or furnish special inspections. After this, the Contractor shall give the Owner and Testing Laboratory not less than three (3) working days written notice of any change in the schedule.

### **PART 2 – PRODUCTS**

Not Used.

### **PART 3 – EXECUTION.**

#### **3.01 SAMPLING.**

Field samples will be selected and obtained by the Testing Laboratory or Inspector unless otherwise specified.

#### **3.02 LABORATORY TEST PROCEDURES.**

Testing shall conform to the requirements specified. If no procedure or test method is specified, testing shall comply with the material specification referenced unless otherwise directed by the Owner.

#### **3.03 CONTRACTOR FURNISHED ASSISTANCE.**

When requested, furnish access, facilities, and labor assistance at the site as necessary for the duties to be performed by the Testing Laboratory and Inspector, including ladders, hoisting, temporary lighting, temporary water supply, and like services. Furnish a temporary concrete test cylinder curing cabinet conforming to ASTM C31, located as directed

#### **3.04 TEST SCHEDULE AND TEST COSTS.**

The Owner will pay the cost of testing. The Contractor shall perform other certifying and testing required by the Contract Documents at his expense. The Contractor shall pay the Owner any cost the Owner incurs for retests when the tested material or equipment fails the test and for retesting caused by failure disclosed in previous tests.

**END OF SECTION 01400**