

# LABORATORY SERVICES

## 1.0 GENERAL

### 1.1 PAYMENT

- a. The Owner will employ and pay for services of an independent testing laboratory to perform specified testing.

### 1.2 RELATED WORK

- a. General Conditions of the Contract for Construction. Inspections and testing required by laws, ordinances, rules and regulations, or orders of public authorities are the responsibility of the Contractor.
- b. Specification Sections. Contained in the various specification sections are requirements for certification of products, testing, adjusting and balancing of equipment, and other tests and standards.
- c. Division 2, Site Work. Subsurface exploration.

### 1.3 WORK INCLUDED

Testing is required in accordance with standard City of Missouri City Specifications.

## 2.0 TESTING LABORATORY

### 2.1 QUALIFICATIONS

- a. Standards.
  - (1) Meet "Recommended Requirements for Independent Laboratory Qualification," latest edition, published by American Council of Independent Laboratories.
  - (2) Meet basic requirements of ASTM E-329, "Standards of Recommended Practice for Inspection and Testing Agencies for Concrete and Steel as Used in Construction."
  - (3) Submit copy of report of inspection of facilities made by Materials Reference Laboratory of National Bureau of Standards during most recent tour of inspection, with memorandum of remedies of any deficiencies reported by inspection.

### 2.2 DUTIES

- a. Cooperate with the Engineer and Contractor and provide qualified personnel promptly on notice.
- b. Perform specified inspections, sampling and testing of materials and methods of construction:

- (1) Comply with specified standards, ASTM, other recognized authorities, and as specified.
- (2) Ascertain compliance with requirements of the contract documents.
- c. Promptly notify the Engineer and Contractor of irregularities or deficiencies of work which are observed during performance of services.
- d. Promptly prepare and distribute reports of inspections and tests as follows:
  - (1) Engineer: Two (2) copies
  - (2) Contractor: One (1) copy
- e. Include the following information for each test as well as additional data specified in the applicable section:
  - (1) Date of Test
  - (2) Location of Test
  - (3) Specified Standards
  - (4) Test Results
  - (5) Remarks

### **2.3 LIMITS OF AUTHORITY**

The laboratory is not authorized to:

- a. Release, revoke, alter, or enlarge on requirements of the contract documents.
- b. Approve or accept any portion of the work.
- c. Perform any duties of the Contractor.

### **3.0 CONTRACTOR'S RESPONSIBILITIES**

- a. Cooperate with laboratory personnel, provide access to the work, or to manufacturer's operations.
- b. Provide to laboratory, preliminary representative samples of materials to be tested, in required quantities.
- c. Furnish labor and equipment:
  - (1) To provide access to the work to be tested.

- (2) To obtain and handle samples at the site.
- (3) To facilitate inspections and tests.
- (4) For laboratory's exclusive use for storage and curing of test samples.
- d. Notify the laboratory at least 48 hours in advance of operations to allow for his assignment of personnel and scheduling of tests.
- e. Arrange with the laboratory and pay for additional samples and tests required for the Contractor's convenience.

-- o o --