

SECTION 01410

TESTING LABORATORIES SERVICES

PART 1 GENERAL

1.1 TESTS

- A. Where tests of materials or any portions of the Work are required by Law/Ordinance or public authority, the Contractor shall bear all costs of such tests, shall give timely notice of readiness therefore and shall furnish to the Engineer the required certification of testing or approval.
- B. Tests specified in the Technical Specifications shall fall into four categories:
 - 1. Those required for approval of materials prior to use, which serves the same purpose as shop drawings or samples;
 - 2. Those required by law;
 - 3. Those necessary for acceptance of equipment, or facilities; and,
 - 4. Those made during the progress of the Work to check compliance with the requirements of the Contract Documents. The Contractor shall bear all the costs of the tests in the first three categories.
- C. Testing conducted in the fourth category shall be carried out as per Contract Documents and Specifications (e.g., Section 02221, Section 02510, etc.) The cost of testing materials in this category shall be paid by the Contractor.

1.2 RELATED REQUIREMENTS

- A. Conditions of the Contract: Inspections and testing required by-laws, ordinances, rules, regulations, orders, or approvals of public authorities.
- B. Respective Sections of Specifications: Certification of products.
- C. Testing Laboratory inspection, sampling, and testing are required for:
 - 1. Section 02221: Excavating, Backfilling and Compacting for Utilities
 - 2. Section 03300: Concrete

1.3 LABORATORY DUTIES

- A. Cooperate with Engineer and Contractor; provide qualified personnel after due notice.
- B. Perform specified inspections, sampling, and testing of materials and methods of construction:
 - 1. Comply with specified standards.
 - 2. Ascertain compliance of materials with requirements of Contract Documents.
- C. Promptly notify Engineer and Contractor of observed irregularities or deficiencies of work or products.
- D. Promptly submit five copies of the written report of each test and inspection to the Engineer. Each report shall include:
 - 1. Date report issued.

2. Project title and number.
 3. Testing laboratory name, address, and telephone number.
 4. Name and signature of laboratory inspector.
 5. Date and time of sampling or inspection.
 6. Record of temperature and weather conditions.
 7. Date of the laboratory test.
 8. Identification of product and specification section.
 9. Location of sample or test in the Project.
 10. Type of inspection or test.
 11. Results of tests and compliance with Contract Documents.
 12. Interpretation of test results, when requested by Engineer.
- E. Perform additional tests as required by the Engineer or the Owner.

1.4 LIMITATIONS OF AUTHORITY OF TESTING LABORATORY

- A. Laboratory is not authorized to:
1. Release, revoke, alter, or enlarge on requirements of Contract Documents.
 2. Approve or accept any portion of the Work.
 3. Perform any duties of the Contractor.

1.5 CONTRACTOR'S RESPONSIBILITIES

- A. Cooperate with laboratory personnel, provide access to Work, and Manufacturer's operations.
- B. Secure and deliver to the laboratory adequate quantities of representative samples of materials proposed to be used and which require testing.
- C. Provide to the Engineer the preliminary design mix proposed to be used for concrete, and other materials and mixes which require control by the testing laboratory.
- D. Furnish copies of Product test reports.
- E. Furnish incidental labor and facilities:
1. To provide access to Work to be tested.
 2. To obtain and handle samples at the Project site or at the source of the product to be tested.
 3. To facilitate inspections and tests.
 4. For storage and curing of test samples.
- F. Notify Engineer sufficiently in advance of operations to allow for laboratory assignment of personnel and scheduling of tests.
- G. When tests or inspections cannot be performed after such notice, reimburse Owner for laboratory personnel and travel expenses incurred due to Contractor's negligence.

- H. Make arrangements with Engineer and pay for additional inspections, sampling and testing required:
- I. For the Contractor's convenience.
- J. When initial tests indicate Work does not comply with Contract Documents.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

PART 4 MEASUREMENT AND PAYMENT

4.1 MEASUREMENT AND PAYMENT

- A. No separate measurement and payment shall be made for this item, but it shall be included in the total bid under this Contract.

END OF SECTION