

Section 01454

TESTING LABORATORY SERVICES

PART 1 GENERAL

1.01 SUMMARY

This Section includes testing laboratory services and Contractor responsibilities related to those services.

1.02 MEASUREMENT AND PAYMENT

- A. The Owner will select, employ, and pay for services of independent testing laboratory to perform inspection and testing identified in individual Specification sections.
- B. No separate payment for Contractor employment for services of independent testing laboratory or laboratories to perform inspection and testing identified in Part 2 of individual Specification sections.
- C. The Owner may deduct all charges incurred by testing laboratory for time and materials from Contractor's periodic progress payment when operations requiring testing or inspection are canceled by the Contractor without prior notification.
- D. The Owner shall deduct cost of retesting from Contractor's periodic progress payment whenever failed work is removed, replaced, and retested.

1.03 REFERENCES

- A. ASTM C 1077 Rev A- Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation.
- B. ASTM D 3666 - Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving.
- C. ASTM D 3740 Rev A- Standard Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.
- D. ASTM E 329 Rev A- Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection.
- E. ISO/IEC 17025 - General Requirements for the Competence of Calibration and Testing Laboratories.

1.04 SUBMITTALS (NOT USED)

1.05 RELATED REQUIREMENTS

Document 00700 – “General Conditions”

1.06 QUALITY ASSURANCE

A. Qualification of Laboratory

1. Meet laboratory requirements of ASTM E 329 Rev A and applicable requirements of ASTM C 1077 Rev A, ASTM D 3666, and ASTM D 3740 Rev A.
2. Meet ISO/IEC 17025 conditions for accreditation by the American Association for Laboratory Accreditation (A2LA) in specific fields of testing required in individual Specification sections.
3. If laboratory subcontracts are part of testing services, such work will be placed with laboratory complying with requirements of this Section.

1.07 SYSTEM DESCRIPTION

A. Laboratory Reports

1. Testing laboratory provides and distributes copies of laboratory reports to distribution list provided by Project Manager at Pre-construction Conference.
2. Keep one copy of each laboratory report distributed at site field office for duration of project.
3. Testing Laboratory will email reports which indicate failed test results to Contractor, Project Manager and Project Representative no later than close of business on the first working day following test completion.

B. Limits on Testing Laboratory Authority

1. Laboratory may not release, revoke, alter, or enlarge requirements of Contract.
2. Laboratory may not approve or accept any portion of the Work.
3. Laboratory may not assume duties of Contractor.
4. Laboratory has no authority to stop the Work.
5. Laboratory has the authority to request inspection of materials and Work as directed by the Project Manager.

C. Contractor Responsibilities

1. Provide safe access to the Work and to manufacturer's facilities for Project Manager, Project Representative, and for testing laboratory personnel.
2. Provide testing laboratory with copy of construction schedule and copy of each update to construction schedule.
3. Notify Project Representative and testing laboratory during normal working hours of day previous to expected time for operations requiring inspection and testing services. When Contractor fails to make timely prior notification, then Contractor shall not proceed with operations requiring inspection and testing services.
4. Notify Engineer 24 hours in advance when Specification requires presence of Engineer is required for sampling or testing.
5. Request and monitor testing as required to provide timely results and avoid delay to the Work. Provide samples to laboratory in sufficient time to allow required test to be performed in accordance with specified test methods before intended use of material.
6. Cooperate with laboratory personnel in collecting samples on site. Provide incidental labor and facilities for safe access to the Work to be tested; to obtain and handle samples at site or at source of products to be tested; and to facilitate tests and inspections including storage and curing of test samples.
7. Contractor shall Pay for additional testing for the following in accordance with Document 00700 - General Conditions:
 - a. Retesting required for failed tests
 - b. Retesting for nonconforming Work
 - c. Additional sampling and tests requested beyond specified requirements
 - d. Insufficient notification of cancellation of tests for Work scheduled but not performed.
8. Employment of testing laboratory by the Owner does not relieve the Contractor of obligation to perform the Work in accordance with requirements of Contract Documents.
9. Contractor shall schedule and monitor testing. Provide 24 hours' notice of testing to Project Representative.

1.08 – 1.13 NOT USED

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 – 3.07 NOT USED

3.08 DEMONSTRATION / TESTING AND INSPECTION

- A. Conform laboratory sampling and testing specified in individual Specification sections to latest issues of ASTM standards, TxDOT methods, or other recognized test standards as approved by Project Manager.
- B. Requirements of this section also apply to those tests for approval of materials, for mix designs and for quality control of materials as performed by employed testing laboratories.

3.09 – 3.10 NOT USED

END OF SECTION