

SECTION 01 45 00 – QUALITY CONTROL

PART 1 – GENERAL

1.01 DESCRIPTION

- A. General: Required inspection and testing services do not relieve the Contractor of responsibility for compliance with these requirements or for compliance with requirements of the contract documents and Walgreens Criteria.
- B. Definitions: Quality control services include inspections and tests and related actions including reports, performed by independent agencies and governing authorities, as well as directly by the Contractor.
- C. Specific quality control requirements for individual units of work are specified in the sections that specify the individual element of the work. These requirements cover production of standard products, fabrication of customized work and quality control of installation procedures.
- D. Provisions of this section do not limit requirements for the contractor to provide quality control services as required by the Architect/Engineer-Of-Record, the Owner, governing authorities or other authorized entities.
- E. Walgreens has entered into a national account agreement with the following companies as the only agents approved to perform quality control inspection, testing and reporting services. Developers shall contract with the testing firm assigned to the regions below:

IA, IL, KS, MO, NC, TX

Contact: Terracon Consulting Engineers & Scientists
Kevin F. Langwell, CPSM
16000 College Blvd.
Lenexa, KS 66219
Phone; 800-593-7777 x 351
kflangwell@terracon.com

Note: In the Chicago Metropolitan Area, Quality Control Testing shall be performed by local qualified firms, subject to approval by Walgreens Construction Project Manager. Approved firms must be capable of performing all tests required by Walgreens Criteria Documents.

~~DE, MD, VA~~

~~Contact: CTI Consultants, Inc.
Cliff Thomas
Senior Vice President
14221 B Willard Road, Suite 100
Chantilly, VA 20151
Phone: 703-803-6411
Fax: 703-803-8085
cthomas@cti-consultants.com~~

~~AR, IN, KY, LA, MI, MN, MS, OH, WI, Western PA, WV~~

~~Contact: PSI Inc.
Mr. William Hogg,
95 Chastain Road, Suite 301
Kennesaw, GA 30144
Phone: 770-424-6200~~

~~AL, GA, SC, TN, FL (see note below)~~

~~Contact: S&ME, Inc.
Mr. Chet Patel
11420 Johns Creek Parkway
Duluth, GA 30097
770 476 3555~~

~~Note: In Florida, Quality Control Testing shall be performed by:
Universal Engineering Sciences
Mr. Jim Sargeant, Nat. Acct. Rep.
3522 Maggie Blvd.
Orlando, FL 32811
Phone: 407 423 0504
jsargeant@uesorl.com~~

~~ND, NE, OK, SD, WY~~

~~Contact: Kleinfelder
Mr. Mark Klaver
3077 Fite Circle
Sacramento, CA 95827
Phone: 916 366 1701
mklaver@kleinfelder.com~~

~~CA, ID, MT, NV, OR, UT, WA; Contact one of the two following firms:~~

~~Contact: Kleinfelder
Mr. Mark Klaver
3077 Fite Circle
Sacramento, CA 95827
Phone: 916 366 1701
mklaver@kleinfelder.com~~

~~or~~

~~Salem Engineering Group, Inc.
Mr. R. Sammy Salem
4055 West Shaw Ave., Suite 110
Fresno, CA 93722
Sammy@SalemEngGroup.com~~

~~AZ, CO, NM; Contact one of the two following firms:~~

~~Contact: Kleinfelder
Mr. Mark Klaver
3077 Fite Circle
Sacramento, CA 95827
Phone: 916 366 1701
mklaver@kleinfelder.com~~

~~or~~

~~Terracon Consulting Engineers & Scientists
Kevin F. Langwell, CPSM
16000 College Blvd.
Lenexa, KS 66219
Phone: 800 593 7777 x 351
kflnagwell@terracon.com~~

~~————— NJ and Eastern PA;~~

~~————— David Calnan~~

~~————— French & Parrello Associates~~

~~1800 Route 34, Suite 101
Wall, NJ 07719
Phone: 732 312 9800
Fax: 732 312 9801
david.calnan@fpaengineers.com~~

~~NY (excluding New York City);~~

~~Ian Muir
Quality Inspection Services Inc.
1679 Lyell Ave
Rochester, NY 14606
PH (585) 458 2170
Fax (585) 458 2402
imuir@QISI.com~~

~~CT, MA, ME, NH, RI, VT~~

~~Contact: Miller Engineering & Testing, Inc.
Howard Goddard
100 Sheffield Road
Manchester, NH 03103 2315
Phone: 603 668 6016
Fax: 603 668 8641
hgoddard@millerengandtesting.com~~

~~NY(New York city), P.R.~~

~~Quality Control Testing shall be performed by local qualified firms, subject to approval by Walgreens Construction Project Manager. Approved firms must be capable of performing all tests required by Walgreens Criteria Documents.~~

1.02 RESPONSIBILITIES

- A. Contractor Responsibilities: Except where they are specifically indicated as being provided by another identified entity, inspections, tests and quality control services are the Contractor's responsibility; these services also include those specified to be performed by an independent agency and not directly by the Contractor. Costs for these services shall be included in the contract Sum.

Pre-Grading/Paving Meeting: Conducted by the General Contractor and including subcontractors, the Quality Control Testing Consultant and Walgreens Superintendent. Review requirements of the geotechnical report, project schedule, paving mix design, installation requirements and testing requirements. Prepare and submit meeting minutes to all attendees.

Pre-Slab Meeting: Conducted by the General Contractor and including subcontractors, the Quality Control Testing Consultant and Walgreens Superintendent. Review building pad suitability, concrete mix design, reinforcement (chair positioning), concrete placement and testing procedures. Prepare and submit meeting minutes to all attendees.

- B. Owner (Landlord) Responsibility: The owner (Landlord) shall engage and pay for the services of an independent agency to perform inspections and tests that are specified as the Owner's responsibility, and as indicated in Article 1.03 below.
- C. Retest Responsibility: Where results of required inspections, tests, etc. prove unsatisfactory and do not comply with the requirements of the contract documents, then

retests are the responsibility of the Contractor, regardless of whether the original test was the Contractor's responsibility. Retesting work revised or replaced by the Contractor is the Contractor's responsibility, where required tests were performed on original work.

- D. Responsibility for Associated Services: The Contractor shall cooperate with those performing required inspections, tests and similar services. Cooperating includes but is not limited to the following:
1. Providing testing company 48 hour notice of when tests are required.
 2. Providing access to the work.
 3. Taking samples or assistance with taking samples.
 4. Delivery of samples to test laboratories.
 5. Security and protection of samples and test equipment at the project site.

1.03 SCHEDULE OF SERVICES

- A. The following schedule of inspections, tests and similar services represents the minimum scope of quality control services to be performed. The Architect/Engineer-Of-Record or governing authorities may require other quality control services.

Division 03 Sections

- Concrete compressive strength testing.
- Concrete slump testing.
- Floor flatness/levelness testing.
- Concrete moisture vapor emission rate testing.
- Concrete moisture content testing.
- Polished Concrete static coefficient of friction (SCOF) testing

Division 04 Sections

- Reinforced masonry grouting.

Division 05 Sections

- Weld testing.
- Moment connection weld testing (when applicable).
- Bolt torque testing.

Division 07 Sections

- Thermal scans (for foamed-in-place insulation).
- Density, thermal conductivity and open cell content of foamed-in-place insulation.

Division 09 Sections

- Moisture vapor emission rate testing.
- Concrete alkalinity testing.

Division 21 Sections

- Sprinkler system leak test.

Division 22 Sections

- Domestic water system leak tests.
- Sewer system hydrostatic tests.

Division 23 Sections

- Leak, pressure and load testing of HVAC refrigerant piping.
- HVAC Testing, Balancing, Adjusting and Commissioning

Division 26 Sections

- Electrical wiring for short circuiting and proper grounding.

Division 31 Sections

- Verify suitable soil bearing capacity and subgrade modulus.
- Field density testing, compaction testing.

Optimum moisture/maximum density testing.
Division 32 Sections
Pavement proof rolling.
Pavement surface smoothness testing.

1.04 QUALIFICATION FOR SERVICE AGENCIES

Engage inspection and test service agencies, including independent testing laboratories, which comply with “Guidelines for Effective Practice for Materials Engineering Laboratories” by the American Council of Independent Laboratories, and which specialize in the types of inspections and tests to be performed.

1.05 SUBMITTALS

A. Submit a certified written report of each inspection, test or similar service, directly to the Architect/Engineer-Of-Record. Copies of all test reports, inspection reports, etc. shall be kept on site at all times.

B. Report Data: Written reports of each inspection, test of similar service shall include, but not be limited to the following:

Name of testing agency or test laboratory.
Dates and locations of samples and test or inspections.
Names of individuals making the inspection or test.
Complete inspection or test data.
Test results.
Interpretations of test results.
Notation of significant ambient conditions at the time of sample taking and testing.
Comments or professional opinion as to whether inspected or tested work complies with requirements of the contract documents.
Recommendations on retesting, if applicable.

C. Non-Compliant Inspection/Test Results: Within 24 hours of inspection/test being performed, notify Architect/Engineer-Of-Record, Walgreens Project Manager and Walgreens Project Architect of any non-conforming/non-compliant inspections/tests. Copies of the successful retests of the originally non-conforming/non-compliant work shall be submitted to the Architect/Engineer-Of-Record, Walgreens Project Manager and Walgreens Project Architect.

D. Project Close-out: The Architect/Engineer-Of-Record shall certify to Walgreens that the required quality control services, as required by this section and the contract documents, have been performed and that all results indicate compliance with requirements.

PART II – PRODUCTS (Not Applicable)

PART III – EXECUTION

3.01 REPAIR AND PROTECTION

General: Upon completion of inspection, testing, sample-taking and similar services repair damaged work and restore substrates and finishes to eliminate all deficiencies. Repair and protection is the Contractor’s responsibility, regardless of the assignment of responsibility for inspection, testing or similar services.

END OF SECTION