PART 1 - GENERAL

1.1 SUPPLEMENTAL TESTING:

A. If required, the following testing shall be performed at the expense of the Contractor installing the material being tested:

B. Material Substitution: Any tests of basic material or fabrication equipment offered as a substitute for specified item on which a test may be required in order to prove its compliance with the specifications.

C. Mechanical/Electrical: Tests on mechanical and electrical systems required to ensure their proper installation and operation.

D. Any test that fails shall be paid for by the installing contractor subject to the following conditions:

1. Quantity and nature of tests will be determined by the Architect.

2. All tests shall be done in the presence of the Owner or his representative.

3. Proof of noncompliance will make the Installer liable for any corrective action which the Owner feels is prudent including complete removal and replacement of defective material.

E. Nothing contained herein is intended to imply that the Installer not have the right to have tests performed on any material at any time for his own information and job control so long as the Architect or Owner does not assume responsibility for costs or for giving them consideration when appraising quality of materials.

THE CONSULTANT SHALL DETERMINE THE TYPE AND NUMBER OF TESTS TO BE PERFORMED ON THE PROJECT. TO COMPLY WITH UBC MINIMUM REQUIREMENTS AND UNIVERSITY NEEDS.

1.2 TEST REPORTS:

A. Reports of all tests made by testing laboratories shall distributed by the testing laboratory as follows:

1. 1 copy - Contractor.

2. 1 copy - Applicable Supplier or Subcontractor.
3. 1 copy - Owner.

4. 1 copy - Architect.

5. Other copies - As directed.

1.3 QUALITY CONTROL SYSTEM:

A. General: The Contractor shall establish a quality control system to perform sufficient inspection and tests of all items of work, including that of all Subcontractors, to ensure conformance to the Contract Documents for materials, workmanship, construction, finish, functional performance and identification. This control shall be established for all construction except where the Contract Documents provide for specific compliance tests by testing laboratories or Consultants employed by the Owner.

B. The quality control system is the means by which the Contractor assures himself that construction complies with the requirements of the Contract Documents. Controls shall be adequate to cover all construction operations and should be keyed to the proposed construction schedule.

C. Records: The Contractor shall maintain correct records on an appropriate form for all inspections and tests performed, instruction received from the Owner and actions taken as a result of those instructions. These records shall include evidence that the required inspections or tests have been performed (including type and number of inspections or tests, nature of defects, causes for rejection, etc.) proposed or directed remedial action, and corrective action taken. The Contractor shall document inspections and tests as required by each section of the specifications.

1.4 INDEPENDENT TESTING AGENCY SERVICES:

A. The Owner will employ and pay for the services of an independent Testing Agency to perform the following inspections, tests and other services. Services shall be performed in accordance with requirements of governing authorities and with specified standards, including all special inspection required by UBC; at frequency recommended by engineer of record and approved by CUFA AHJ.

B. Contractor shall cooperate with Testing Agency personnel and shall furnish tools, sample of materials, design mixes, equipment and assistance as requested.

C. Contractor shall provide and maintain, for the sole use of the Testing Agency, adequate facilities for the safe storage and proper curing of concrete testing cylinders on the project site for the first 24 hours after casting as required by ASTM C 31, Method of Making and Curing Concrete Test Specimens in the field.

D. Contractor shall notify Testing Agency sufficiently in advance of operations to allow for completion of initial tests and proper assignment of inspection personnel.
E. Contractor shall notify the testing agency sufficiently in advance of cancellation of required testing operations. The Contractor shall assume responsibility for costs incurred due to the failure to provide such notice.

SPECIFY ALSO THE NUMBER AND TYPE OF TESTS TO BE REQUIRED.

END OF SECTION 01400