

PART I – GENERAL**WORK SPECIFIED HEREIN**

This Section outlines requirements covering special inspections, testing laboratory services and inspection required during the course of construction of the Project. This Section is complementary to the General Conditions and Supplementary General Conditions and nothing herein shall be considered to waive any requirements of the General Conditions or Supplementary General Conditions.

TESTING LABORATORY SERVICES AND INSPECTIONS

- The Owner and/or PETSMART shall employ the services of an Independent Testing Agency to provide testing and inspection of the work as outlined below. The testing agency shall be licensed in the province where the structure is located and shall meet the requirements of “Recommended Practices for Inspection and Testing Agencies for Concrete, Steel and Bituminous Materials as Used in Construction” (ASTM E329). All testing and inspections shall be performed under the supervision of a Professional of Record registered in the province where the structure is located.
- The Owner and PETSMART reserve the right to perform tests in addition to the testing specified herein.
- Materials and operations shall be tested and inspected as the work progresses. Failure to detect any defective work or material shall not in any way prevent later rejection when such defect is discovered nor shall it obligate the Owner’s Representative for final acceptance.
- The testing agency shall report all test and inspection results to the General Contractor, the Professional of Record and PETSMART’s Construction Manager immediately after they are performed. All test and inspection reports shall be signed and sealed by a Professional of Record registered in the province where the structure is located and shall include the exact location in the work represented by the test.
- At the completion of each portion of the work the testing agency shall submit a letter of certification, signed and sealed by an Professional of Record registered in the province where the structure is located, stating that all work has been constructed in accordance with the contract documents and all other applicable code requirements.
- The testing agency and its representatives are not authorized to revoke, alter, relax, enlarge or release any requirement of the contract documents, approve or accept any portion of the work, perform any duties of the Contractor, or be a party to scheduling of work.
- The Contractor shall notify the testing agency and the Owner’s Representative a minimum of 24 hours in advance of all work requiring testing and inspection work and all reasonable facilities shall be made available for technicians.
- Records of inspections shall be kept available to the Building Official during progress of work and for two years after completion of the project. Records shall be preserved by the testing agency.

PAYMENT FOR SERVICES

- Payment for basic quality assurance services will be by the Owner/PETSMART, directly to the Independent Testing Agency.
- When the results show that the work does not meet the full requirements of the Contract Documents, the General Contractor shall pay for retesting corrected materials or workmanship until satisfactory test results are obtained.
- The costs of any additional tests or analysis, including additional architectural or engineering services, performed to prove the adequacy of non-conforming work, shall be borne by the contractor without any increase to the Contract Sum.

PART II – EXECUTION**REINFORCED CONCRETE MASONRY**

- Provide Special Inspections as called for on the Structural Drawings and as required by the Building Official.
- Unless specifically noted on the drawings or otherwise required by the Building Official, prism tests and compression tests of mortar and grout are not required.

STRUCTURAL STEEL

- Provide Special Inspections as called for on the Structural Drawings and as required by the Building Official.

STRUCTURAL CONCRETE

- Provide Special Inspections as called for on the Structural Drawings and as required by the Building Official.
- Conduct strength tests of the concrete during construction in accordance with the following procedures:
 1. Secure composite samples in accordance with “Method of Sampling Fresh Concrete” (ASTM C172). Each sample shall be obtained from a different batch of concrete on a random basis, avoiding any selection of the test batch other than by a number selected at random before commencement of concrete placement.
 2. Mold and cure three specimens from each sample in accordance with “Method of Making and Curing Concrete Test Specimens in the Field” (ASTM C31). Any deviations from the requirements of this Standard shall be recorded in the test report.
 3. Test specimens in accordance with “Method of Test for Compressive Strength of Cylinder Concrete Specimens” (ASTM C39). Two specimens shall be tested at 28 days and one shall be tested at 7 days. The acceptance test results shall be the average of the strengths of the two specimens tested at 28 days. If one specimen in a test manifests evidence of improper sampling, molding or testing, it shall be discarded and the strength of the

remaining cylinder shall be considered the test result. Should both specimens in a test show any of the above defects, the entire test shall be discarded.

4. Make at least one strength test (3 cylinders) for each 38 m³ (50 cu. yd.), or fraction thereof, of each mix design of concrete placed in any 1 day.
5. Determine slump of the concrete sample for each strength test and whenever consistency of concrete appears to vary using "Method of Test for Slump of Portland Cement Concrete (ASTM C143).
6. Determine air content of normal weight concrete sample for each strength test in accordance with either "Method of Test for Air Content of Freshly Mixed Concrete by the Pressure Method" (ASTM C231), "Method of Test for Air Content of Freshly Mixed Concrete by the Volumetric Method" (ASTM C173), or "Method of Test for Unit Weight, Yield, and Air Content of Concrete" (ASTM C138).
7. Determine temperature of concrete sample for each strength test.
8. Determine static coefficient of friction, specular gloss/reflectance, floor flatness number and floor levelness number for interior exposed slabs.

FOUNDATIONS

- Inspect all excavations prior to installation of foundations for correct depth for frost penetration, bearing strata and bearing capacity.

END OF SECTION