

1. INSPECTION AND TESTING OF WORK

1.1 General

- .1 The City, the Contract Administrator, and other authorities having jurisdiction shall have access to the Work. If parts of the Work are in preparation at locations other than the Place of the Work, access shall be given to such work whenever it is in progress.

1.2 Laboratories/Agencies

- .1 Independent Inspection/Testing Agencies may be engaged by the City for the purpose of inspecting and/or testing portions of the Work. All costs of such services will be borne by the City. Any additional tests required due to defective work shall be paid by the Contractor.
- .2 All equipment required for carrying out inspection and/or testing will be provided by the respective Agencies.
- .3 Employment of Inspection/Testing Agencies in no way relieves the Contractor of responsibility to perform the Work in accordance with the Contract Documents.
- .4 Allow the Inspection/Testing Agencies access to all portions of the Work on site and manufacturing or fabrication plants, as may be necessary. Provide facilities for such access.

1.3 Design Standards, Code Requirements

- .1 Inspection and/or testing will be performed in accordance with the following:
 - .1 Concrete to CSA-A23.2 and mix designs to CSA-A23.1.
 - .2 Welding to CSA W59.1 and ASTM E109.
 - .3 Bolted connections to CSA S16 or S16.1.
 - .4 Roofing to CRCA manual.
 - .5 Disinfection to AWWA

1.4 Tests and Mix Design

- .1 Prior to commencement of the Work, submit to the Contract Administrator and Inspection/Testing Agency, the following:
 - (a) test results and mix designs of each class of concrete.
 - (b) mill test certificates for all structural steel and bolts.

2. PROCEDURES

- .1 Notify the Contract Administrator well in advance of the requirements for tests in order that necessary arrangements can be made.
- .2 Submit samples and/or materials required for testing with reasonable promptness so as to cause no delay in the Work.

- .3 Provide facilities to allow inspection and/or testing and make available space for storage and curing of the test samples.
- .4 If defects are revealed during inspection and/or testing, then the Contract Administrator may issue instructions for removal or correcting defective work and irregularities. The Contractor shall notify the Contract Administrator within two (2) working days if such instructions are in error or at variance with the Contract Documents.
- .5 Costs for re-inspection and/or testing of rejected work shall be borne by the Contractor.

3. REFERENCE STANDARDS

- .1 Within the text of the specifications reference may be made to the following standards:

ACI	American Concrete Institute
AISC	American Institute of Steel Construction
ANSI	American National Standards Institute
ASTM	American Society for Testing and Materials
AWWA	American Water Works Association
CCA	Canadian Construction Association
CEC	Canadian Electrical Code (published by CSA)
CEMA	Canadian Electrical Manufacturers Association
CGSB	Canadian Government Specification Board
CISC	Canadian Institute of Steel Construction
CLA	Canadian Lumberman's Association
CPCA	Canadian Painting Contractors Association
CPCI	Canadian Prestressed Concrete Institute
CRCA	Canadian Roofing Construction Association
CSA	Canadian Standards Association
FM	Factory Mutual Engineering Corporation
IEEE	Institute of Electrical and Electronic Engineers
IPCEA	Insulated Power Cable Engineers Association
NAAMM	National Association of Architectural Metal Manufacturers
NBC	National Building Code
NEMA	National Electrical Manufacturers Association
TTMAC	Terrazzo, Tile and Marble Association of Canada
ULC	Underwriters Laboratories of Canada

Conform to such standards, in whole or in part, as specified.

- .2 If there is question as to whether any product or system is in conformance with applicable standards, the Contract Administrator reserves the right to have such products or systems tested to prove or disprove conformance. The cost for such testing will be borne by the City in the event of conformance with Contract Documents or by the Contractor in the event of non-conformance.
- .3 Where specified standards are not dated, conform to latest issue of specified standards as amended and revised to the Tender closing date.

END OF SECTION