1. **GENERAL**
   1. **Summary of Requirements**
      1. Owner to furnish independent concrete testing as required.
      2. Provide concrete pads for mechanical and electrical equipment on grade and at roof level as indicated. Pad dimensions shall be dimensions of the unit plus 100 mm more on each side and 200 mm thick, unless determined otherwise by Structural Engineering Consultant.
   2. **References**
      1. Building Code as applicable to Project, latest edition.
   3. **System Description**
      1. The design life of concrete shall be 100 years.
      2. All exterior concrete sidewalks shall be designed for vehicular rating with 150 mm minimum thickness and 32 MPa minimum strength.
      3. All exterior sidewalks shall have California brush finish with saw cut joints.
   4. **Design Requirements**
      1. Exposed concrete to have formwork joint layout with tie spacing.
2. **ADMINISTRATIVE and SUBMITTAL REQUIREMENTS**
   1. **BCIT Submittals and Notifications**
      1. Product Data: Specify for Contractor to provide prior to ordering materials submit the following for each manufactured material and product specified.
         1. Submit special procedures proposed for casting concrete when projected temperatures are below 5°C or above 25°C.
      2. Submit concrete mix designs for prior consultant approval.
      3. Submit special procedures proposed for casting concrete when projected temperatures are below 5°C or above 25°C.
3. **PRODUCTS**
   1. **Slabs on Grade – Exterior and Interiors**
      1. Control Joints: Provide control joints as required in all concrete slabs.
4. **EXECUTION**
   1. **Field Quality Control**
      1. Owner shall obtain and pay for concrete testing by an independent testing agency.
      2. In the event that concrete does not meet the Specifications after retesting, the Consultant will require remedial measures or require the concrete be removed and replaced at no extra cost to Owner.

\*\*\* END OF **CAST IN PLACE CONCRETE** SECTION \*\*\*