1.1 **GENERAL**

1.2 **Co-ordination Requirements**
   
   .1 Coordinate design with Building Envelope Professional.

1.3 **Description**
   
   .1 Sealants (caulking) at all project locations.

1.4 **Performance Standards**
   
   .1 SFU observes that:
      
      .1 The University experiences continual failures in exterior caulking on door and window frames, louver frames, cladding joints and other areas of non-movement. Consequently, joint sealants are not to be used as a primary method of waterproofing or shedding water. Appropriate counter flashings and cladding details to be provided.

      .2 Only high performance elastomeric sealants are to be used. Sealants must be capable of withstanding dynamically moving joints in exterior applications for long periods of time (typically 20+ years).

      .3 All joints to receive sealant shall be designed to accommodate anticipated movement. This should include movement due to thermal expansion and contraction as well as structural movement. This is of particular importance at window and door perimeters.

      .4 The consultant is therefore to develop details, select sealants, and involve manufacturers so as to obtain high performance, durability, and low-maintenance, incorporating quality assurance programs in the contract documents particular to the project and developed in concert with manufacturers and specialist companies of this trade, and the envelope consultant.

1.5 **Quality Control and Assurance**
   
   .1 Submittals
      
      .1 Before Start of Work
         
         .1 List of all proposed sealant materials and installation instructions for review, and colour samples for selection by Consultant.

         .2 MSDS Material Data Sheets for review and posting at jobsite.

         .3 Certification reports of VOC content.

      .2 At Completion
         
         .1 Maintenance data shall be an itemized list:
            
            .1 C/W manufacturer / distributor name / sealant type / color formulation / warranties.
2.2 Quality Assurance

.1 Trade contractor who specializes in the application of sealant systems.

.3 Warranties

.1 Extended warranties for each product as offered by sealant manufacturers to apply.

2.1 MATERIALS

.1 Materials

.1 All sealants must not contain hazardous materials such as asbestos. Note that many existing applications at SFU contain asbestos-based caulking.

.2 Exterior weather seal sealants shall be high performance neutral cure silicone such as: Dow Corning 991, 790 and 795 or GE SILPRUF and GE SILPRUF NB.

.3 Use non-staining sealants for sensitive substrates such as stone unless testing has been done to ensure compatibility with regular sealants.

***END OF SECTION***