1. **GENERAL**
   1. **Requirements Include**
      1. Casework for laboratories designated for Biohazard Containment Levels 1 through 4.
   2. **Related BCIT Guidelines**
      1. Section 06 40 00 Architectural Woodwork.
   3. **Coordination Requirements**
      1. Early in the design process, review design intent and additional requirements with BCIT.
   4. **Design Requirements**
      1. Whenever project permits, conform to the most stringent requirements, to allow for flexibility of use.
      2. Conform to function-specific requirements.
      3. Seismic:
         1. Provide seismic restraint for all shelving.
         2. Provide seismic restraint for all freestanding cabinets taller than 1200 mm.
         3. Provide edges to shelving and similar features to minimize spillage including during seismic activity.
         4. Provide marine edging or similar at countertops to contain spillage.
      4. Finishes:
         1. Select finishes to suit required resistance to:
            1. Chemicals including acids, alkalis, solvents, and reagents.
            2. Heat.
            3. Moisture, humidity.
            4. Abrasion.
            5. Impact.
            6. Radioisotope chemistry.
2. **ADMINISTRATIVE AND SUBMITTAL REQUIREMENTS**
   1. **BCIT Submittals and Notifications**
      1. Confirm with BCIT if sample mock-up is required.
      2. Closeout Submittals:
         1. Maintenance data shall include each finish type and colour formulation.
         2. Confirm with BCIT if any material is to be provided for maintenance purposes.
      3. Quality Assurance:
         1. For seismic restraints including anchorage, a Professional Engineer registered in BC, and engaged by the manufacturer, is to seal shop drawings and carry out site reviews confirmed by Letters of Assurance.
      4. Warranties:
         1. Two (2) year manufacturer’s warranty to include replacing and refinishing due to defects or faulty workmanship.
3. **MATERIALS**
   1. **Performance Requirements**
      1. Select manufacturer recognized as specializing in the manufacture and installation of Laboratory Casework and fittings of the type required for project.
      2. Metal casework to be pre-fabricated and with factory-finished systems.
      3. Tops to be continuous with no open seams, integral backsplash, sealed joints to walls etc.
      4. Rounded edges (mandatory when positive pressure suits are worn).
      5. Minimize joints generally, and seal.
      6. Maximize spacing of legs to optimize free under counter space and flexibility.
      7. Provide under slung moveable modular units (e.g. drawer / shelf units), for flexibility.
      8. Design for vibration control.
   2. **Prescriptive Requirements**
      1. Suitable worktop materials include:
         1. Stainless steel preferred (mandatory for Containment Level 4 labs).
         2. Solid cast epoxy resin.
         3. Resin-impregnated natural stone.
         4. Laboratory grade plastic laminate.
         5. Other with approval from BCIT.
      2. Installation shall be by manufacturer-trained and certified installer.

\*\*\* END OF **LABORATORY CASEWORK** SECTION \*\*\*