1.1 **GENERAL**

1.2 Related SFU Technical Requirements

1.2.1 12 35 53 Laboratory Casework
1.2.2 08 14 00 Wood Doors
1.2.3 11 53 33 Emergency Safety Appliances
1.2.4 10 20 00 Interior Specialties

1.3 Coordination Requirements

1.3.1 Coordinate with SFU Facilities
1.3.2 Coordinate with Hardware Consultant.

1.4 Description

1.4.1 Architectural Woodwork, defined as all clear, kiln dried, dressed or re-sawn material exposed to view in a finished building interior or exterior, including casework, frames, paneling, trim and other wood-related products and including cabinet hardware. Architectural Woodwork does not include Economy Grade.

1.5 Performance Standards

1.5.1 Architectural Woodwork Manufacturers Association of Canada (AWMAC)

1.5.1.1 AWMAC Quality Standards current edition at time of tender.

http://awmac.com/aws

1.6 Quality Control and Assurance

1.6.1 Submittals

1.6.1.1 Before Start of Work
1.6.1.1.1 List of all proposed materials for review and color samples for selection plus for final approval.
1.6.1.1.2 Shop drawings should consider conforming to AWMAC Quality Standards requirements that include details of construction, profiles, jointing, fastening and other related details.
1.6.1.1.3 Sample mock-up.

1.6.2 Work should consider to be in accordance with Grade or Grades specified in the AWMAC Quality Standards (AQS) current edition at time of tender.

1.6.3 All architectural woodwork material must be reviewed and approved by SFU Facilities prior to final installation.

1.6.4 Exterior wood is discouraged on building. Consideration will be given on a project basis in consultation with SFU Facilities.

1.6.5 Woodwork Manufacturer Qualifications:

1.6.5.1 Minimum 5 years of production experience similar to this project, whose qualifications indicate ability to comply with requirements of this Section.

1.6.5.2 Minimum one project in past 5 years where value of woodwork within 20 percent of cost of woodwork for this Project.

1.6.5.4 At Completion
1.6.5.4.1 Maintenance data shall itemize list C/W each finish type, color formulation.
1.6.5.4.2 Maintenance material shall be determined.
2.1 **MATERIALS**

2.2 **Performance Requirements**

.1 All Architectural Woodwork shall conform to Architectural Woodwork Standards.

.2 Laboratories

   .1 Wet-lab countertops would require marine grade plywood substrate at a minimum. Solid state may be considered.

   .2 Wood is allowed within laboratories, including casework, trim, wood doors and frames, etc., but only on approval of SFU Facilities.

.3 Seismic Anchorage is required on all cabinets and shelving over 1200 mm high or where units are likely to be a hazard from overturning. Refer also to Structural Section for engineering requirements.

2.3 **General**

.1 *AWMAC Quality Standards (AQS) current edition at time of tender.*

.2 Typical

   .1 Casework Grade - Custom.

   .2 Casework Style: Flush Overlay

.3 Typical Veneer when using Wood Veneer Ply

   .1 White Birch.

.4 Security Problem Areas (to assist in preventing doors and drawers from being pried open)

   .1 Casework Style: Flush Overlay

.5 Sealer Products are preferred for use on glu-lam wood products for exposed wood remediation.

   .1 Follow detailed manufacturer’s instructions for Clear Finish Broda Clarity Wood Stone (Wood Brightener/Iron Shield)
2.4 Environmental

.1 Source

.1 Sourcing requirements will be advised on a project basis.

.2 Manufacture

.1 Adhesives, preservatives, hardeners, synthesizing agents and finish coatings shall be 1.2.9. South Coast Air Quality Management District (SCAQMD) Rule 1168-[A2005] compliant.

.2 MDF to be CARB2 compliant, no added formaldehyde and recycle certified.

.3 Plywood shall be Exterior Grade (i.e. manufactured with no added formaldehyde).

.3 Performance

.1 Energy

.1 Determine.

.2 Durability

.1 Select plastic laminate type and thickness suitable for intended use; avoid high gloss.

.3 Life Cycle Costing

.1 15-year.

.4 Provide modular components to facilitate reuse whenever possible.

.5 Maintenance

.1 Determine.

.6 Disposal

.1 Minimize use of packing materials such as cardboard for shipping case goods, millwork and furniture and if used, recycle. Use blanket wraps for shipping whenever feasible.

2.5 Prescriptive Requirements

.1 Materials

.1 Components

.1 MDF will only be used in correct applications on a project basis, and upon approval from SFU Facilities.
.2 Plywood Cores at the following locations:
  .1 Core for countertops with plumbing cut-outs.
  .2 High humidity areas.
  .3 All food service areas.

.3 When plastic laminate or melamine surfacing is used, provide same finish (backer sheet when concealed) on all surfaces of the core.

.4 Cabinets
  .1 Sustainable and certified woods to be used wherever possible.
  .2 No rainforest products.
  .3 Maximized recycled content.
  .4 Avoid use of adhesives, use re-usable mechanical fasteners where possible.
  .5 Do not specify fir ply, specify birch ply.
  .6 Standard cabinet construction to be 3/4”.

.7 Cabinet Hardware Requirements
  .1 Ensure commercial availability for maintenance.
  .2 Hardware to suit use/duty for institutional use.
  .3 Heavy Duty hinges throughout.

.2 Execution

  .1 Conform to Architectural Woodwork Standards Manual including the recommendations additional to the work as described.

***END OF SECTION***