APPENDIX C – WOOD VENEER FACED ARCHITECTURAL CABINETS | LECTERNS

PART 1 - GENERAL

1.1 SUMMARY

A. The following wood veneer faced architectural cabinets | lecterns specifications and drawings identify the quality requirements and level of detail required for the AV lectern millwork required for this project and indicated within furniture Package 2- Conference Case Goods. Quantities and locations of the lecterns are coded and identified on the furniture plan drawings included in Appendix E. This work is to be completed by a qualified millwork shop and the millwork is to meet the requirements outlined by this specification section and the drawings. The millwork fabrication, veneers and finishing for this work is to be coordinated with the other furniture items to be purchased under Package 2.

B. Other work included in this section is as follows:
   1. Shop finishing of wood veneer faced architectural cabinets | lecterns.
   2. Coordination with AV vendor and AV equipment provided by others.

1.2 PREINSTALLATION MEETINGS

A. Pre-installation Conference: Conduct conference at Project site with the General Contractor, AV vendor, University of Rhode Island and the Architect to review, coordinate and confirm infrastructure requirements for AV millwork.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product, including panel products, cabinet hardware, and accessories and finishing materials and processes.

B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.

   1. Show details full size.
   2. Show locations and sizes of cutouts and holes for electrical switches and outlets and other items installed in architectural wood cabinets.
   3. Show veneer leaves with dimensions, grain direction, exposed face, and identification numbers indicating the flitch and sequence within the flitch for each leaf.

C. Samples for Initial Selection:

   1. Shop-applied transparent finishes.

D. Samples for Verification:

   1. Lumber for transparent finish, not less than 5 inches wide by 24 inches long, for each species and cut, finished on one side and one edge.

2. Veneer leaves representative of and selected from flitches to be used for transparent-finished cabinets.

3. Exposed cabinet hardware and accessories, one unit for each type.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For fabricator.

B. Product Certificates: For each type of product.

1. Composite wood and agrifiber products.
2. Adhesives.

1.5 CLOSEOUT SUBMITTALS

A. Quality Standard Compliance Certificates: AWI Quality Certification Program or WI Certified Compliance Program certificates.

1.6 QUALITY ASSURANCE

A. Fabricator Qualifications: Shop that employs skilled workers who custom fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.

1. Manufacturer's Certification: Licensed participant in AWI's Quality Certification Program or WI's Certified Compliance Program.

B. Installer Qualifications: Manufacturer of products Licensed participant in AWI's Quality Certification Program or Licensed participant in WI's Certified Compliance Program.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver cabinets until painting and similar operations that could damage woodwork have been completed in installation areas. If cabinets must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Field Conditions" Article.

1.8 FIELD CONDITIONS

A. Environmental Limitations: Do not deliver or install cabinets until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

B. Environmental Limitations: Do not deliver or install cabinets until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature between 60

and 90 deg F and relative humidity between 25 and 55 percent during the remainder of the construction period.

1.9 COORDINATION

A. AV Coordination: Coordinate construction of AV lecterns around dimensions of AV racks and AV boxes to be provided by others

PART 2 - PRODUCTS

2.1 ARCHITECTURAL CABINET FABRICATORS

A. Source Limitations: Engage a qualified woodworking firm to assume undivided responsibility for production of architectural wood cabinets with sequence-matched wood veneers and wood paneling.

2.2 ARCHITECTURAL WOOD CABINETS, GENERAL

A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of architectural wood cabinets indicated for construction, finishes, installation, and other requirements.

1. Provide label and certificates as required from AWI or WI certification program indicating that woodwork complies with requirements of grades specified.
2. The Contract Documents contain selections chosen from options in the quality standard and additional requirements beyond those of the quality standard. Comply with those selections and requirements in addition to the quality standard.

2.3 WOOD CABINETS FOR TRANSPARENT FINISH

A. Grade: Custom.

B. Type of Construction: Frameless.

C. Cabinet and Door and Drawer Front Interface Style: Flush overlay.

D. Wood for Exposed Surfaces **(WD-1)**:

1. Species: White Oak.
2. Cut: Quarter cut/quarter sawn.
3. Grain Direction: Vertically for drawer fronts, doors, and fixed panels.
4. Matching of Veneer Leaves: Book match.
5. Veneer Matching within Panel Face: Balance match.
6. Veneer Matching within Room: Provide cabinet veneers in each room or other space from a single flitch with doors, drawer fronts, and other surfaces matched in a

sequenced set with continuous match where veneers are interrupted perpendicular to the grain.

7. Comply with veneer and other matching requirements indicated for blueprint-matched paneling.

E. Semiexposed Surfaces: Provide surface materials indicated below:

1. Surfaces Other Than Drawer Bodies: Same species and cut indicated for exposed surfaces.

2. Face of frameless box: Same species and cut indicated for exposed surfaces.

3. Drawer Subfronts, Backs, and Sides: Solid-hardwood lumber, same species indicated for exposed surfaces.

4. Drawer Bottoms: Hardwood plywood, same species indicated for exposed surfaces.

5. Other surfaces: See drawings.

F. Drawer Construction: Fabricate with exposed fronts fastened to subfront with mounting screws from interior of body.

1. Join subfronts, backs, and sides with glued dovetail joints.

2.4 WOOD MATERIALS

A. Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of woodwork and quality grade specified unless otherwise indicated.

1. Do not use plain-sawn softwood lumber with exposed, flat surfaces more than 3 inches wide.
2. Wood Moisture Content: 5 to 10 percent.

B. Composite Wood and Agrifiber Products: Provide materials that comply with requirements of referenced quality standard for each type of woodwork and quality grade specified unless otherwise indicated.

1. Recycled Content of Medium-Density Fiberboard and Particleboard: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 20 percent.
2. Composite Wood and Agrifiber Products: Products shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
3. Medium-Density Fiberboard: ANSI A208.2, Grade 130, made with binder containing no urea formaldehyde.
4. Particleboard: Straw-based particleboard complying with requirements in ANSI A208.1, Grade M-2, except for density.

   a. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:

1) Environ Biocomposites Manufacturing LLC; Biofiber Wheat.
2) Sorm Incorporated; Primeboard Premium Wheat.

5. Softwood Plywood: DOC PS 1.

2.5 CABINET HARDWARE AND ACCESSORIES

A. General: Provide cabinet hardware and accessory materials associated with architectural cabinets.

B. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602, 100 degrees of opening, self-closing.

C. Back-Mounted Pulls: See drawings.

D. Shelf Rests: BHMA A156.9, B04013; metal.

E. Drawer Slides: BHMA A156.9.

1. Grade 1 and Grade 2: Side mounted and extending under bottom edge of drawer; full-extension type; zinc-plated steel with polymer rollers.
2. Grade 1HD-100 and Grade 1HD-200: Side mounted; full-overtravel-extension type; zinc-plated-steel ball-bearing slides.
3. For drawers not more than 3 inches high and not more than 24 inches wide, provide Grade 1.
4. For drawers more than 3 inches high but not more than 6 inches high and not more than 24 inches wide, provide Grade 1.
5. For computer keyboard shelves, provide Grade 1HD-100.
6. For recycle bins provide Grade 1HD-200.
7. For trash and receptacle drawers and drawers more than 6 inches high or more than 24 inches wide, provide Grade 1HD-100.

F. Door Locks: BHMA A156.11, E07121.
1. Keyed alike to comply with University of Rhode Island lock and keying standards.

G. Drawer Locks: BHMA A156.11, E07041.
1. Keyed alike to comply with University of Rhode Island lock and keying standards.

H. Door and Drawer Silencers: BHMA A156.16, L03011.

I. Grommets for Cable Passage: 2-inch OD, molded-plastic grommets and matching plastic caps with slot for wire passage.

1. Provide Doug Mockett & Co.; Color 91M-Mahogany.

J. Exposed Hardware Finishes: See drawings.

K. For concealed hardware, provide manufacturer's standard finish that complies with product class requirements in BHMA A156.9.

2.6 MISCELLANEOUS MATERIALS

A. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrous-metal or hot-dip galvanized anchors and inserts at inside face of exterior walls and at floors.

B. Adhesives: Do not use adhesives that contain urea formaldehyde.

C. Adhesives: Use adhesives that meet the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

2.7 FABRICATION

A. Fabricate woodwork to dimensions, profiles, and details indicated. Ease edges to radius indicated for the following:

1. Corners of Cabinets: 1/16 inch unless otherwise indicated.

B. Complete fabrication, including assembly, finishing, and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation.

1. Notify Architect seven days in advance of the dates and times woodwork fabrication will be complete.
2. Trial fit AV Racks at fabrication shop. Install solid wood blocking to match AV millwork species as necessary for AV rack mounting and installation. Verify that various parts fit as intended and check measurements of millwork assemblies against AV rack measurements before shipment to site.
3. Cable Cubby AV boxes Install cable cubby box flush with surface. Tightly fit with no visible gaps. Verify that various parts fit as intended and check measurements of assemblies against AV box measurements before shipment to site.

C. Shop-cut openings to maximum extent possible to receive hardware, appliances, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

2.8 SHOP FINISHING

A. General: Finish architectural wood cabinets at fabrication shop as specified in this Section. Defer only final touchup, cleaning, and polishing until after installation.

B. General: Shop finish transparent-finished architectural wood cabinets at fabrication shop as specified in this Section.

C. Finish Materials: Use finish materials that meet the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

D. Preparation for Finishing: Comply with referenced quality standard for sanding, filling countersunk fasteners, sealing concealed surfaces, and similar preparations for finishing architectural wood cabinets, as applicable to each unit of work.

E. Transparent Finish:

1. Grade: Custom.
2. Finish: System - 5, conversion varnish.
3. Color and Sheen: Match architect's sample. (Finished wood veneered millwork sample - Natural)
4. Open Finish for Open-Grain Woods: Do not apply filler to open-grain woods.

PART 3 - EXECUTION

3.1 PREPARATION

A. Before installation, condition cabinets to average prevailing humidity conditions in installation areas.

B. Before installing cabinets, examine shop-fabricated work for completion and complete work as required, including removal of packing.

3.2 INSTALLATION

A. Grade: Install cabinets to comply with same grade as item to be installed.

B. Assemble cabinets and complete fabrication at Project site to the extent that it was not completed in the shop.

C. Install AV cabinet units level, plumb, true, and straight.

D. Touch up finishing work specified in this Section after installation of woodwork. Fill nail holes with matching filler where exposed.

1. Apply specified finish coats, including stains and paste fillers if any, to exposed surfaces where only sealer/prime coats are applied in shop.

3.3 ADJUSTING AND CLEANING

A. Repair damaged and defective cabinets, where possible, to eliminate functional and visual defects; where not possible to repair, replace woodwork. Adjust joinery for uniform appearance.

B. Clean, lubricate, and adjust hardware.

C. Clean cabinets on exposed and semi-exposed surfaces. Touch up shop-applied finishes to restore damaged or soiled areas.

1 LECTERN PLAN
1 1/2" = 1'-0"

2 LECTERN SECTION
1 1/2" = 1'-0"

1 MOVABLE LECTERN @ THEATER FRONT & RIGHT ELEV.
1 1/2" = 1'-0"

1 MOVABLE LECTERN @ THEATER LEFT & REAR ELEV.
1 1/2" = 1'-0"