

SECTION 064100 - ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Specially fabricated cabinet units.
- B. Hardware.
- C. Factory finishing.
- D. Preparation for installing utilities.

1.2 RELATED REQUIREMENTS

- A. Section 061001 - Rough Carpentry - Architecture: Support framing, grounds, and concealed blocking.
- B. Section 123600 - Countertops.

1.3 REFERENCE STANDARDS

- A. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications.
- B. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition.
- C. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards.
- D. HPVA HP-1 - American National Standard for Hardwood and Decorative Plywood.

1.4 SUBMITTALS

- A. See Section 013300 - Submittal Procedures for submittal procedures.
- B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
 - 1. Scale of Drawings: 1-1/2 inch to 1 foot, minimum.
- C. Product Data: Provide data for hardware accessories.

1.5 QUALITY ASSURANCE

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.

1.6 MOCK-UPS

- A. Provide mock-up of typical base cabinet, including hardware and finishes.

- B. Locate where directed.
- C. Mock-up may remain as part of the work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Protect units from moisture damage.

1.8 FIELD CONDITIONS

- A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

2.1 CABINETS

- A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
- B. Plastic Laminate Faced Cabinets: Custom grade.
- C. Cabinets:
 - 1. Finish - Exposed Exterior Surfaces: Decorative laminate.
 - 2. Finish - Exposed Interior Surfaces: Decorative laminate.
 - 3. Finish - Semi-Exposed Surfaces: Decorative laminate
 - 4. Finish - Concealed Surfaces: Manufacturer's option.
 - 5. Door and Drawer Front Edge Profiles: Square edge with thin applied band.
 - 6. Casework Construction Type: Type A - Frameless.
 - 7. Interface Style for Cabinet and Door: Style 1 - Overlay; flush overlay.
 - 8. Grained Face Layout for Cabinet and Door Fronts: Flush panel.
 - a. Custom Grade: Doors, drawer fronts and false fronts wood grain to run and match vertically within each cabinet unit.
 - 9. Adjustable Shelf Loading: 40 psf.
 - a. Deflection: L/144.
 - 10. Cabinet Doors and Drawer Fronts: Flush style.
 - 11. Drawer Side Construction: Multiple-dovetailed.

2.2 WOOD-BASED COMPONENTS

- A. Dimensional Lumber: Utilize pressure-treated wood at locations in contact with the floor.

2.3 PANEL CORE MATERIALS

- A. Medium Density Fiberboard (MDF): Composite panel composed of cellulosic fibers, additives, and bonding system; cured under heat and pressure; comply with ANSI A208.2.
 - 1. For cabinet doors and drawer fronts only.

2.4 HARDWOOD PLYWOOD PANELS

- A. Hardwood Plywood: Plywood manufactured for nonstructural decorative applications; consisting of faces and backs applied to a variety of core types; comply with HPVA HP-1.
 - 1. For all cabinet components not specifically identified as MDF or dimensional lumber.

2.5 LAMINATE MATERIALS

- A. Manufacturers:
 - 1. Basis of Design: Formica Corporation: www.formica.com.
 - 2. Panolam Industries International, Inc: www.panolam.com.
 - 3. Wilsonart LLC: www.wilsonart.com.
 - 4. Substitutions: See Section 016000 - Product Requirements.
- B. Provide specific types as follows:
 - 1. Plastic Laminate PL-1: Horizontal Surfaces, Vertical Surfaces; Grade 12 HGP, 0.039 inch nominal thickness, natural grain finish.
 - 2. Plastic Laminate PL-2: Cabinet and Drawer Interior Surfaces; Grade 12 HGP, 0.039 inch nominal thickness, satin finish.

2.6 COUNTERTOPS

- A. Countertops: See Section 123600.

2.7 ACCESSORIES

- A. Adhesive: Type recommended by fabricator to suit application.
- B. Fasteners: Size and type to suit application.
- C. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.

2.8 HARDWARE

- A. Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards and coordinated self rests, satin finish, for nominal 1 inch spacing adjustments.
 - 1. Basis of Design: Knappe & Vogt Manufacturing Company; 255 Series Aluminum Standards: www.knappeandvogt.com.
- B. Drawer and Door Pulls: bar drawer/door pull; satin stainless steel finish; 7 inch centers.
 - 1. Basis of Design: Basis of Design: Kohler Co.; "Purist" #K-25499; www.kohler.com.
- C. Drawer Slides:
 - 1. Type: Full extension.
 - 2. Static Load Capacity: Extra Heavy Duty grade.
 - 3. Mounting: Side mounted.
 - 4. Stops: Integral type.
 - 5. Features: Provide self closing/stay closed type.
 - 6. Manufacturers:

- a. Basis of Design: Knap & Vogt Manufacturing Company; Heavy-Duty Drawer Slides #8500: www.knapandvogt.com.
 - b. Substitutions: See Section 016000 - Product Requirements.
- D. Hinges: European style concealed self-closing type, steel with nickel-plated finish.
 - 1. Manufacturers:
 - a. Basis of Design: Blum, Inc; CLIP top BLUMOTION: www.blum.com.
- E. Grommets: 3" hole desk grommet, satin chrome (26D) finish.
 - 1. Basis of Design: Doug Mockett and Company, Inc.; XG Flip Top Series, www.mockett.com

2.9 FABRICATION

- A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- B. Edging: Fit shelves, doors, and exposed edges with specified edging. Provide edging on all sides of shelves. Do not use more than one piece for any single length.
- C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
- D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.

3.2 INSTALLATION

- A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
- B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- C. Use fixture attachments in concealed locations for wall mounted components.
- D. Use concealed joint fasteners to align and secure adjoining cabinet units.
- E. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.
- F. Secure cabinets to floor using appropriate angles and anchorages.

3.3 ADJUSTING

- A. Adjust installed work.
- B. Adjust moving or operating parts to function smoothly and correctly.

3.4 CLEANING

- A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION 064100