

SECTION 12356

KITCHEN CASEWORK

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Wood-faced kitchen cabinets.
 - 2. Plastic laminate countertops.

1.2 DEFINITIONS

- A. Exposed Surfaces of Casework: Surfaces visible when doors and drawers are closed, including visible surfaces in open cabinets or behind glass doors.
- B. Semiexposed Surfaces of Casework: Surfaces behind opaque doors or drawer fronts, including interior faces of doors and interiors and sides of drawers. Bottoms of wall cabinets are defined as "semiexposed."
- C. Concealed Surfaces of Casework: Surfaces not usually visible after installation, including sleepers, web frames, dust panels, bottoms of drawers, and ends of cabinets installed directly against and completely concealed by walls or other cabinets. Tops of wall cabinets and utility cabinets are defined as "concealed."

1.3 SUBMITTALS

- A. Product Data: For the following:
 - 1. Cabinets.
 - 2. Laminate materials.
 - 3. Cabinet hardware.
- B. Shop Drawings: For cabinets and countertops. Include plans, elevations, details, and attachments to other work. Show materials, finishes, filler panels, hardware, edge and backsplash profiles, cutouts for plumbing fixtures, and methods of joining countertops.
- C. Samples for Selection: Manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available for each type of material exposed to view.
 - 1. Plastic laminate for countertop finish, 8 by 10 inches (200 by 250 mm).
 - 2. One unit of each type of exposed hardware.

1.4 QUALITY ASSURANCE

- A. Source Limitations for Cabinets: Obtain cabinets through one source from a single manufacturer.
- B. Product Designations: Drawings indicate size, configurations, and finish material of casework by referencing designated manufacturer's catalog numbers. Other manufacturers' casework of similar sizes, similar door and drawer configurations, same finish material, and complying with the Specifications may be considered. Refer to Division 1 Section "Substitutions."
- C. Quality Standards: Unless otherwise indicated, comply with the following standards:
 - 1. Cabinets: KCMA A161.1.
 - a. KCMA Certification: Provide cabinets with KCMA's "Certified Cabinet" seal affixed in a semiexposed location of each unit and showing compliance with the above standard.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Cabinets:
 - a. Armstrong.
- B. Available Products: Subject to compliance with requirements, cabinets that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Armstrong: Extreme Series, Oak.
 - a. Style: Branford.

2.2 COLORS, TEXTURES, AND PATTERNS

- A. Colors, Textures, and Patterns: As selected by Architect from manufacturer's full range for these characteristics.

2.3 CABINET MATERIALS FOR EXTREME SERIES

- A. Exposed Materials: Comply with the following:
 - 1. Exposed Wood Species: As follows. Do not use two adjacent exposed faces that are noticeably dissimilar in color, grain, figure, or natural character markings.
 - a. Red oak.
 - 2. Solid Wood: Clear hardwood lumber of species indicated, free of defects, selected for compatible grain and color, and kiln dried to 7 percent moisture content.
- B. Semiexposed Materials: Unless otherwise indicated, provide the following:
 - 1. Plywood: 1/2 inch thick hardwood plywood with exposed edges banded with hardwood edge.
- C. Back Panels: 1/4 inch thick hardwood plywood.

2.4 CASEWORK HARDWARE

- A. General: Manufacturer's standard units complying with BHMA A156.9, of type, material, size, and finish as selected from manufacturer's standard choices.
- B. Hinges: Concealed European-style hinges.
- C. Drawer Guides: Epoxy-coated-metal, self-closing drawer guides; designed to prevent rebound when drawers are closed; with nylon-tired, ball-bearing rollers; and complying with BHMA A156.9, Type B05091.
- D. Door and Drawer Pulls:
 - 1. Barrier Free Kitchens: Ives No. 33, brushed chrome finish.
 - 2. All Others: Ives, No. 521, 1-1/4 inch diameter, brushed chrome finish.

2.5 CABINET CONSTRUCTION FOR EXTREME SERIES

- A. Face Style: Reveal overlay; door and drawer faces partially cover cabinet body or face frames.
 - 1. Provide built-up base for cabinets where indicated on the drawings.
- B. Face Frames: 3/4-inch solid wood.
 - 1. Vertical Stiles: 1-1/2 inch wide.
 - 2. Horizontal Rails: 1-3/4 inch wide.
 - 3. Center Mullions: 3 inch wide.
- C. Door and Drawer Fronts: Solid-wood stiles and rails, 1/2 inch thick, with 1/4-inch- (6.4-mm-) thick, veneer-faced plywood center panels.
- D. Exposed Cabinet Ends: 1/2-inch- (12.7-mm-) thick hardwood plywood.
- E. Cabinet Tops and Bottoms: 1/2-inch- (12.7-mm-) thick hardwood plywood, fully supported by and secured in rabbets in end panels, front frame, and back rail.
- F. Back, Top, and Bottom Rails: 3/4-by-3-inch solid wood, interlocking with end panels and rabbeted to receive top and bottom panels. Back rails secured under pressure with glue and with mechanical fasteners.
- G. Wall-Hung Unit Back Panels: 1/4-inch thick hardwood plywood fastened to rear edge of end panels and to top and bottom rails.
- H. Base Unit Back Panels: 1/4-inch thick hardwood plywood fastened to rear edge of end panels and to top and bottom rails.
- I. Front Frame Drawer Rails: 3/4-by-1-1/4-inch (19-by-32-mm) solid wood mortised and fastened into face frame.
- J. Drawers: Fabricate with exposed fronts fastened to subfront with mounting screws from interior of body.
 - 1. Join subfronts, backs, and sides with glued rabbeted joints supplemented by mechanical fasteners or with glued dovetail joints.
 - 2. Subfronts, Backs, and Sides: 11/16-inch thick solid wood.

3. Bottoms: 1/4 thick plywood.
- K. Shelves: 1/2-inch- (12.7-mm-) thick plywood.
- L. Joinery: Rabbet backs flush into end panels and secure with concealed mechanical fasteners. Connect tops and bottoms of wall cabinets and bottoms and stretchers of base cabinets to ends and dividers with mechanical fasteners. Rabbet tops, bottoms, and backs into end panels.
- M. Factory Finishing: To greatest extent possible, finish casework at factory. Defer only final touchup until after installation.

2.6 COUNTERTOPS

- A. Post-formed Countertops: HGP, nominal thickness .038" (1.0 mm), phenolic resin particleboard with .020" phenolic backer sheet. Provide "D" shaped edge design with 3/8 inch radius edges and 3/16 inch radius coves.
- B. Plastic Laminate: Provide by Wilsonart Custom Laminate only. Colors as selected by the Architect.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install casework with no variations in flushness of adjoining surfaces; use concealed shims. Where casework abuts other finished work, scribe and cut for accurate fit. Provide filler strips, scribe strips, and moldings in finish to match casework face.
- B. Install casework without distortion so doors and drawers fit openings and are aligned. Complete installation of hardware and accessories as indicated.
- C. Install casework and countertop level and plumb to a tolerance of 1/8 inch in 8 feet (3 mm in 2.4 m).
- D. Fasten cabinets to adjacent units and to backing.
 1. Fasten wall cabinets through back, near top and bottom, at ends and not less than 24 inches (600 mm) o.c. with No. 10 wafer-head screws sized for 1-inch (25-mm) penetration into wood framing, blocking, or hanging strips.
- E. Countertops: Anchor securely by screwing through corner blocks of base cabinets or other supports into underside of countertop.
 1. Install countertops with no more than 1/8 inch in 96-inch (3 mm in 2400-mm) sag, bow, or other variation from a straight line.
 2. Secure backsplashes to tops.
 3. Calk space between backsplash and wall with sealant specified in Division 7 Section "Joint Sealants."

3.2 ADJUSTING AND CLEANING

- A. Adjust casework and hardware so doors and drawers are centered in openings and operate smoothly without warp or bind. Lubricate operating hardware as recommended by manufacturer.
- B. Clean casework on exposed and semiexposed surfaces. Touch up factory-applied finishes to restore damaged or soiled areas.

END OF SECTION