SECTION 06 4100

ARCHITECTURAL WOOD CASEWORK

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Special fabricated cabinet units.
2. Plastic laminate countertops.
3. Shop finishing.
4. Cabinet hardware.

B. Related Sections:
1. Division 01: Administrative, procedural, and temporary work requirements.
2. Section 06 6116 - Solid Surfacing Fabrications.
3. Section 07 9200 - Joint Sealers.
4. Section 12 3640 - Stone Countertops.

1.2 REFERENCES

A. Architectural Woodwork Institute (AWI) - Architectural Woodwork Quality Standards.

B. Association of Electrical and Medical Imaging Equipment Manufacturers (NEMA) LD-3 - High Pressure Decorative Laminates.

C. Forest Stewardship Council (FSC) STD-40-004 - Chain of Custody Standard.

1.3 SUBMITTALS

A. Submittals for Review:
1. Shop Drawings:
a. Include dimensioned plan, sections, elevations, and details, including interface with adjacent work.
b. Designate wood species and finishes.
2. Samples:
a. 3 x 3 inch plastic laminate samples showing available colors and finishes.
b. Each hardware component.

1.4 QUALITY ASSURANCE

A. Fabricator Qualifications:
1. Minimum 5 years experience in work of this Section.

1.5 DELIVERY, STORAGE AND HANDLING

A. Do not deliver materials until proper protection can be provided, and until needed for installation.

1.6 PROJECT CONDITIONS

A. Environmental Requirements: HVAC system complete and operational for minimum 7 days prior to installation of cabinets.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers –
Plastic Laminate:
1. Formica Corp.
2. Nevamar Co.
3. Wilsonart International, Inc.
4. Or equal

Solid Surface:
1. Wilsonart International, Inc.
2. Corian
3. Or equal

2.2 MATERIALS

A. Panel Products:
1. Graded in accordance with AWI Section 200 requirements for quality grade specified.
2. Exposed and semi-exposed: ¾" Birch veneer plywood, of quality suitable for opaque finish.

B. Hardboard: Pressed wood fiber with resin binder; standard grade, smooth both sides.

C. Plastic Laminate: NEMA LD-3.
1. Colors: To be selected from manufacturer's full color range.

D. Lumber:
1. Graded in accordance with AWI Section 100 requirements for quality grade specified, average moisture content of 6 percent.

E. Solid Surface Countertops:
1. 1/2" minimum thick, color to be selected from manufacturer's full range of colors.

1.1 ACCESSORIES

A. Fasteners: Type and size as required by conditions of use.

B. Adhesives:
1. Waterproof, water based type, compatible with backing and veneer materials.

C. Finish Hardware: As scheduled at end of Section or approved substitute.

D. Joint Sealers: Specified in Section 07 9200.

1.2 FABRICATION

A. Cabinets - Opaque Finish:
1. Quality: AWI Section 400, Custom Grade.
2. Type: Reveal overlay with 5/8 inch horizontal and vertical reveals.
   a. Raised panel rail and style cabinet doors in conference room.
3. Semi-exposed surfaces: Wood to match exposed surfaces
4. Fit exposed and semi-exposed panel edges with matching wood edging.
5. Fabricate drawer bodies to full depth of drawer fronts, less 1/2. All drawers units shall have metal slides.

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B. Plastic Laminate Countertops:
   1. Quality: AWI Section 400, Custom Grade.
   2. Fabricate from panel product with lumber fronts.
   3. Locate end joints centered or symmetrical. Join sections with concealed clamp fasteners. Locate plastic laminate butt joints minimum 2 feet away from sinks.
   4. Provide holes and cutouts for mounting of sinks and accessories.

C. Solid Surface Countertops:
   1. Cast solid polymer components with through body color meeting ANSI Z124.3 or ANSI Z124.6.
   2. Class A (Class 1) surface burning characteristics per UL 723 (ASTM E84).
   3. Provide holes and cutouts as required.

D. Shop assemble for delivery to project site in units easily handled.

E. Prior to fabrication, field-verify dimensions to ensure correct fit.

F. Apply plastic laminate in full uninterrupted sheets; fit corners and joints to hairline. Slightly bevel arises. Apply laminate backing sheet to reverse side of laminate faced surfaces.

G. Apply solid surface countertops in strict conformance with manufacturer's written instructions with the minimum joints possible. Provide 1 ½" deep sculpted edge on countertop at outside edge of cabinet and 4" high backsplash at wall.

H. Where field fitting is required, provide ample allowance for cutting. Provide trim for scribing and site conditions.

I. Provide cutouts and reinforcement for plumbing, electrical, appliances, and accessories. Prime paint surfaces of cut edges.

1.3 FINISHES

A. Opaque Finish System:
   1. Finish system: AWI Section 1500, Custom
   2. Color: To be selected from manufacturer's full color range.

PART 2 - EXECUTION

2.1 PREPARATION

A. Prior to installation, condition cabinets to average humidity that will prevail after installation.

2.2 INSTALLATION

A. Install in accordance with AWI Section 1700, Custom Grade requirements.

B. Set plumb, rigid and level.

C. Scribe to adjacent construction with maximum 1/8 inch gaps.

D. Adhere countertops, splashes, and skirts with beads of adhesive.

E. Fill joints between tops and splashes with sealant as specified in Section 07 9200; finish flush.

2.3 FINISH HARDWARE SCHEDULE

A. To be selected by Owner from samples submitted by contractor.

END OF SECTION

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