

**SECTION 06200**

**FINISH CARPENTRY (ARCHITECTURAL MILLWORK)**

**PART 1 – GENERAL**

**1. SUMMARY (SCOPE OF WORK)**

This section of the specifications is intended to include the furnishing and setting of all items of work of a rough or finished carpentry nature necessary to the completion of work. In accordance with the plans and these specifications, which generally include the following:

**1.1 Section Includes, Special Fabricated**

- 1.1.1 All work included under this heading shall be subject to the General Conditions of the entire operation. The Contractor for this portion of the work is required to refer especially thereto.
- 1.1.2 The carpenter shall furnish all rough, dressed, or treated lumber. Unless otherwise specified, he shall furnish and set all centers, templates, bracing, etc., required for the masonry work. These centers shall be well stiffened and strong enough to carry the weights supported without deformation. They must be accurately formed to the required shapes.
- 1.1.3 The carpenter shall provide all necessary wood blocks, nailing strips, plugs, bucks, etc., and see that they are built in as required by other contractors for this work, as the work progresses.
- 1.1.4 Interior trim, jambs, and millwork, including metal trim details.
- 1.1.5 The carpenter shall cut and frame timbers and woodwork as required by the various other trades for the completion of their work, and provide all lumber required by them for the scaffolding or for the protection or finished work unless otherwise specified.
- 1.1.6 Plastic Laminated Casework: Refer to drawings for additional scope of work.
- 1.1.7 Post-Forming Grade Laminate countertops and back/side splashes.
- 1.1.8 Hardware, typically furnished by contractor.
- 1.1.9 All rough woodwork and adjustable wood shelving and brackets as required for the proper completion of the work.

**1.2 RELATED SECTIONS**

- 1.2.1 Section 061000 – Rough Carpentry, wood blocking and grounds within finished walls and above finished ceiling.
- 1.2.2 Section 09900 – Painting, shop finish.
- 1.2.3 Section 05990 – Miscellaneous Metals & Metal Specialties

**FEMA Shelter**  
**Unified School District #463**

1.3 **QUALITY STANDARD**

Unless otherwise indicated, comply with AWI's Architectural Woodwork Quality Standards for grades of interior architectural woodwork, construction, finishes and other requirements.

**2. REFERENCES**

Complete "Qualification Statement for the Architectural Woodwork Institute" and submit a copy to the General Contractor and Architect. This form can be found in the current edition of the AWI Quality Standards.

**3. SUBMITTALS**

3.1 Submit shop drawings in conformance to AWI, current edition to comply with shop drawing tables.

3.2 **SHOP DRAWINGS**

Submit two copies, one of which will be returned with reviewed notations, make corrections noted (if any) and distribute required copies prior to commencement of work.

3.3 **FINISH SAMPLES**

3.3.1 Submit four samples of each cut and species of wood to be used, minimum size of 6" x 12" for lumber and 12" x 12" for plywood.

3.3.2 Submit four additional samples of what will be used to painting trade for preparation of paint samples.

3.3.3 Submit a sample of each item of cabinet hardware, in the job specified finish, visible at exposed surfaces when the cabinet doors and drawers are closed.

3.3.4 **Closeout Submittal**: Reference Section 01780 – Closeout Submittals.

**4. QUALITY ASSURANCE**

All products shall be the best quality obtainable in the market for use in the best grade of construction, unless otherwise distinctly specified.

**5. DELIVERY, STORAGE AND HANDLING**

5.1 Do not deliver cabinets until HVAC system is operating.

5.2 Kiln-dried materials shall not be delivered to the site until needed. All woodwork shall be protected from weather while in transit from the mill to the job site. When delivered at the site, material shall be placed under waterproof cover immediately and shall be protected from the floor. Woodwork shall not be stored in the new building until all plastering and masonry is reasonably dry.

5.3 Fabricate millwork in strict accordance with drawings; assemble and finish at mill in units as large as can be brought through doors.

5.4 Deliver all materials only when the project is ready for installation and the general contractor has provided a clean storage area as defined in the manual of millwork by AWI.

**6. PROJECT CONDITIONS**

ENVIRONMENTAL REQUIREMENTS

Operate HVAC system to maintain occupancy level temperature and relative humidity conditions from 24 hours prior to delivery of cabinets through remainder of construction period.

**7. SEQUENCING AND SCHEDULING**

Coordinate all fabrication, delivery, and installation work with the general contractor and other applicable trades.

**PART II - PRODUCTS**

**8. COMPONENTS**

8.1 General cabinet construction: Particleboard shall be in accordance with AWI, **3/4" thick #45 Industrial Grade particleboard core, synthetic resin or binder glue type, varied construction of face species**, balanced construction.

8.2 Fabrication shall comply to First Class Workmanship, as defined by AWI.

8.3 Drawer construction: Plywood shall be equal to 1/2 x 4 x 8 A-1/VC Baltic Birch Plywood (**7 Ply**) as manufactured by Copper Beech Millwork (800) 532-9110. Copperbeech.com.

8.4 Adhesive used shall be **Type I** exterior glues must withstand bond test (ANSI/WDMA 1.5-1 Series).

**8.5 INTERIOR MILLWORK**

8.5.1 Exposed edges of plywood that are visible after installation shall be **3-mm thick PVC edge banding** unless noted otherwise.

8.5.2 Adhesive used shall be **Type I**. Hot-melt adhesive.

8.5.3 Finish height of wainscot or wall paneling shall be referenced on drawings.

8.6 Casework shall be **AWI Frameless** construction style and **Single Length Section Units** where applicable as construction type.

8.7 Semi-exposed surfaces shall be in accordance with AWI requirements. Interior surfaces in open cabinets or behind glass doors shall comply with AWI requirements.

8.8 Door, drawer, and false drawer fronts shall be **flush overlay**, and match AWI door and drawer edge type **3-mm thick PVC edge banding** unless noted otherwise.

8.9 All drawers shall be constructed of Baltic birch plywood with thermally fused melamine bottoms. Dovetail construction.

8.10 Casework numbers on the plans and/or elevations view reference the AWI custom cabinet design. Cabinets are to be fabricated to the size indicated, as adjusted to fill the intended area.

**FEMA Shelter**  
**Unified School District #463**

- 8.11 Adjustable shelves shall be in accordance with AWI requirements subject to a **50** pound per square foot uniformly spaced load not to exceed 200 pounds per shelf. Front and back edges shall have a 3-mm PVC edge banding. Glass shelves shall be by Glazing contractor. Coordinate installation with Glazing Contractor.
- 8.12 Casework shall have **4"** high **concealed** toe spaces. General Contractor to finish toe kick finish unless otherwise noted.
- 8.13 CABINET CASES
- 8.13.1 Interiors and semi-exposed sides shall be Plastic Laminate: 3/4" industrial grade/ #45 density particleboard with thermally fused melamine interiors (Domtar-Panolan, or approved equal); Comply with LMA-SAT-1; Color: White.
- 8.13.2 Exposed surfaces shall be Plastic Laminate. Front exposed edges shall have 3mm PVC edge banded.
- 8.14 Hardwood backer board: AHA A135.4.
- 8.15 SHELF CONSTRUCTION (Concealed interiors and wall mounted adjustable shelves): 3/4" #45 industrial grade particleboard core with thermally fused melamine (Domtar-Panolan, or approved equal). Edge Type: 3-mm thick. PVC edge banding, front and back sides only.
- 8.16 Casework hardware shall be the desired type, manufacturer, and finish listed as follows or be at the option of the manufacturer from the AWI's most current listings of approved products. Comply with BHMA A156.9 for items indicated by referencing BHMA numbers or items referenced to this standard.
- 8.16.1 Pulls, typical unless noted otherwise: Wire Pulls that match the existing classroom.
- 8.16.2 Hinge shall be Blum "clip" concealed hinge with 170-degree opening and full overlay as manufactured by Hafele: (800) 423-3531. Or 170-degree opening, 3-way adjustable, self-catching Nexus 170 concealed dowelled hinge cup, by Grass, 2 per door up to 26", 3 for 37" to 60", 4 for 60" to 84".
- 8.16.3 Hinge for blind corner: Concealed hinges with 95-degree opening angle; Screw-on hinge cup; 3-way adjustment; self catching Nexus 170 concealed dowelled hinge cup, by Grass, 2 per door up to 26", 3 for 37" to 60", 4 for 60" to 84". Include euro screws per AWI requirement when applicable. Comply with BHMA A156.9, B01602. Include euro screws per AWI requirement.
- 8.16.4 Adjustable shelf hardware shall be Lamp, SS-323 metal supports fitted to 5-mm holes at 32-mm centers.
- 8.16.5 Drawer slides shall be Grass 3018(x)-04 or approved equal. Ball bearing 100 lb. full extension drawer slide. Include rear mounting brackets and inset bracket sets where applicable.
- 8.16.6 Lock "A" shall be: National, 8053-26 or approved equal. Typical, unless otherwise noted. Key alike in room. Key rooms differently. Coordinate with new master key system.

8.17 LAMINATED PLASTIC CASEWORK

Exposed plastic laminate shall be selected from Nevamar, Pionite, Formica, Wilsonart, and LaminArt brands, of their Solid Color, Wood Grain, or Special Finish colors with high wear finish, comply with NEMA LD3, grade as required by woodwork quality standard; laid up on 3/4" #45 industrial grade particle board core with 3-mm PVC edge. Wood grain shall run and match AWI Requirements

8.18 POST-FORMING GRADE COUNTERTOPS

8.18.1 Plastic laminate shall be selected from selected Nevamar, Pionite, Formica, Wilsonart, and LaminArt brands, of their Solid Color, Wood Grain, or Special Finish colors with high wear finish; laid up on (2) 3/4" #45 industrial grade particle board core with seamless edge treatment. Applied edge: Crescent.

8.18.2 Post forming countertops are continuous, unbroken laminate face. Integrated seamless splash and edge.

**PART 3 – EXECUTION**

**9. EXAMINATION**

9.1 Verify the adequacy and proper location of any required backing or support framing.

9.2 Verify that mechanical, electrical, plumbing, and other building items (supplied by others) effecting work in this section are in place and ready.

**10. INSTALLATION**

10.1 Install all work in conformance with good industrial practices.

10.2 All work shall be secured in place, square, plumb, and level.

10.3 All work abutting other components shall be properly scribed.

10.4 Mechanical fasteners at exposed and semi-exposed surfaces, excluding installation attachment screws and screws used for attaching cabinets end to end, shall be countersunk.

10.5 Equipment cut-outs within countertops indicated on plans shall be cut by installer.

10.6 Method of attachment, including the type, size, frequency, and/or spacing of anchoring devices and fasteners shall comply to AWI minimum requirements or be as indicated in the plans or specifications.

10.7 All installation including attachment of casework and countertops shall be in compliance with AWI minimum requirements.

10.8 This job shall comply with the requirements of the UBC, TITLE 24.

**11. ADJUSTING**

Before completion of the installation, the installer shall adjust all moving or operating parts to function smoothly and correctly.

***FEMA Shelter***  
***Unified School District #463***

**12. CLEANING**

Upon completion of the installation, the installer shall clean all items installed of pencil or ink marks and broom clean the area of his operations, depositing debris in containers provided by the general contractor.

**End of Section 06200**