

ITB# 6075-Partial Casework Replacement
NORTH SIDE ELEMENTARY SCHOOL
Johnson City, Tennessee

SHAW & SHANKS ARCHITECTS, PC
205 East Unaka Avenue
Johnson City, TN 37601

ADDENDUM NUMBER ONE
October 3, 2016



The original Project Manual and Drawings, dated September 30, 2016, for the above project are amended as noted in this Addendum. Receipt of this Addendum shall be acknowledged on the Bid Form on which the Contractor submits his bid.

This Addendum consists of one (1) page and the attachments noted herein.

GENERAL:

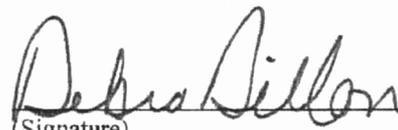
ADD 1-1 Note that the City of Johnson City Plans Review Fee has been paid. Contractor shall, however, pay all required permitting fees.

SPECIFICATIONS:

ADD 2-2 Refer to Specification Section 01 21 00 – Allowances, and to 1.04, B. Allowance No. 2 shall be as stated, except Reception Area center countertop shall be quartz in lieu of granite.

ADD 2-3 Refer to attached Specification Section 12 30 00 – Plastic Laminate Casework dated October 3, 2016; this section replaces the original Plastic Laminate Specification Section and hereby made part of the Contract Documents.

END OF ADDENDUM NUMBER ONE


(Signature)

Debra Dillon, Director, CPPO, CPPB
(Printed name and title)

ADDENDUM NO. 1

SECTION 12 30 00 – PLASTIC LAMINATE CASEWORK

PART 1 GENERAL

1.01 Related Documents:

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work of this section.

1.02 General Provisions:

Applicable provisions of General Conditions, Special Conditions, and General Requirements shall apply to this section as if repeated in full herein. Reference other Sections and Divisions for work in connection with this section.

1.03 Scope of Work:

Furnish prefabricated cabinetry, custom millwork, countertops and related components as specified herein. Refer to plans for details and requirements. Cabinetry shall include all fillers, scribes, finish ends, finish backs, laminate and quartz countertops. Locks to be provided where shown on casework drawings.

1.04 Related Work Not Included:

- A. Sinks and fittings, connection, piping, traps, supplies, shut offs, and special plumbing applicable to codes. Electrical fittings, devices, conduit, wiring, fans, blowers, motors, ductwork, and special grills not specified herein.
- B. Rubber Base Molding

1.05 Qualification:

- A. Caseworks must meet Architectural Woodwork Institute (AWI) Specifications.
- B. Manufacturers shall have independently tested their products and be able to submit documentation of results meeting SEFA requirements. Testing under SEFA 8. Cabinet Structural Tests (Sections 4.0, 5.0, 6.0, 7.0 and 9.0) and Table Structural Tests (Section 10.0) required.
- C. Manufacturer shall show evidence of having a minimum of five (5) years' experience in the manufacture and installation of casework for projects of similar size and complexity.

1.06 Submittals:

- A. Shop Drawings: Shall be submitted for approval after formal notification of award of contract. Drawings shall consist of floor plans indicating arrangement and relation to adjacent work and equipment and complete elevations of casework. Centerline of service requirements shall be noted for use by other trades.
- B. Color Samples: Shall be submitted for selection and coordination at time of shop drawing submittals. Samples of actual materials and color shall be available as required.
- C. Catalog Cuts: Additional catalog cuts, details, and samples as requested by architect for evaluation and coordination.

1.07 Product Delivery, Storage, and Handling:

- A. Protection: Protect casework and related materials during transit, delivery, storage, and handling to prevent damage, soiling, and deterioration.
- B. Storage: Store casework and related materials at project site in installation and storage areas with similar ambient conditions as final installation. Storage areas must be kept dry, heated with low relative humidity, and away from construction work such as painting, wet work, grinding, and similar operations.
- C. Site Conditions: In accordance with AWI's *Quality Standards Illustrated* (current edition).

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1.08 Warranty:

Casework manufacturer shall warrant for a period of three (3) years that its manufactured product is free from defects in materials and workmanship when properly installed and under normal use and conditions.

PART 2 PRODUCTS

2.01 Surface Material:

- A. All cabinets located in Corridors and/or Lobbies (all locations except Classrooms) shall be constructed of materials certified and stamped (labeled) as Class A/ Class 1 fire retardant (ASTM E-84).
- B. Cabinet: Exterior and all interior surfaces shall be thermofused or high pressure laminate. Color and pattern shall be same on both panel faces with balanced construction, and shall be chosen from a full range of WilsonArt or Formica standard finishes. Laminate shall become homogenous, thermofused to core face resulting in a unitized structure. Lamination shall be under precision controlled press cycle using high pressures of 350-400 Pounds per Square Inch (PSI) and thermosetting temperatures of 380-400 degrees F. Resin impregnated decorative faces shall be thermofused and chemically cross linked within laminate face and to core structure. Surface texture finishes to be formed against precision engraved chromed press plates. Laminates shall be tested under National Electrical Manufacturers Association (NEMA) LD3-2005 Vertical Grade GP-28 standards. Laminates shall be warranted for life against delamination.
- C. Door and Drawer fronts: Shall be balanced construction, finished entirely in matching thermofused or high pressure laminate materials and patterns as selected for cabinet units.
- D. Backs: Shall be matching thermofused or high pressure laminate materials and patterns as selected for cabinet units.

2.02 Core Materials:

- A. Particleboard: Shall be high performance industrial grade core. Particleboard shall be 45# - 48# density 3-ply type formation conforming to American National Standards Institute (ANSI) A208.1 and American Society for Testing and Materials (ASTM) D1037-91A standards.
- B. Medium Density Fiberboard: Core shall be minimum 48# density conforming to ANSI A208.1 MD-130 standards.

2.03 Edgings:

- A. Door and Drawer Fronts: Edges shall have matching 3mm radius extrusion banding. Fronts shall have radius edges and corners applied utilizing automated hot melt adhesive application and trimming.
- B. Cabinet Edges: Cabinet sides, top, bottom, adjustable shelves, and other interior components shall be edged with (.020") flat edge extrusion. Automated hot melt adhesive application and trimming.
- C. Drawer Components: 3/4" sides shall be edged with (.020") flat edge extrusion. Automated hot melt adhesive application and trimming.

2.04 Selections and Applications:

- A. Cabinet Components: Shall have full color throughout. Cabinets shall have a selection which applies to all unit parts including ends, fronts, wall bottoms, top, bottom, backs, and all interior faces.
- B. Drawer body interiors: Matching color of all other cabinet components.
- C. Laminate Countertops: Selected from Wilsonart Design Group I standard offering.
- D. Countertop Supports: Powder coated- three (3) standard colors- Black, Pearl, and Champagne.

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2.05 Hardware:

A. Hinges:

1. Concealed Hinges: Full concealed Blum 1200 self closing type at all base cabinets and over head cabinets.
2. 5-Knuckle Hinges: Hafele Advantage 5K - Institutional Hinge at all tall cabinets: Shall be heavy duty 5-knuckle 270 degree pivot reveal overlay style. Hinges shall have interlaying leaves 270 degree swing constructed of (.090") thickness steel. Hinges shall be (Grade 1) with hospital ground tips and non-removable pin. 5-knuckle hinges shall be available in minimum five (5) standard finishes. Doors less than 47" shall have two (2) hinges per door. Doors exceeding 47" shall have three (3) hinges per door. 5-knuckle hinges shall have vertical adjustment and shall be mounted with two (2) 5mm thread screws each leaf with additional #8 screws: two (2) in cabinet leaf and three (3) in door leaf. Total nine (9) fasteners per hinge. (Mountings without 5mm system fasteners not acceptable.)

B. Door Catches: Shall be heavy duty spring loaded, large diameter (17.5mm) roller catches mounted at door bottom. Doors over 48" shall have catch at both top and bottom. Catch strike plate shall be injection molded with integral molded engagement ridge and wide face bumper door stop.

C. Pulls: Back mounted, easy grip 128mm, 5" long, Matte Nickel.

D. Drawer Slides: Extension slides shall be bottom and side mount epoxy steel slides. Lateral stability achieved through a formed captive slide profile. Slides shall glide on nylon rollers and carry a 100# dynamic load rating. Slides feature both in and out drawer stop with 3" self close and adjustable cam side alignment. Slides shall also be tested under The Scientific Equipment and Furniture Association (SEFA) 6.5 Drawer Cycle Test.

E. Shelf Supports: Adjustable shelf supports shall be injection molded clear polycarbonate. Supports shall incorporate integral molded lock tabs to retain shelf from tipping or inadvertent lift out. Supports shall have 5mm diameter double pin engagement into precision bored cabinet vertical hole-patterns. Adjustment shall be (32mm) 1 1/4" spacing. Supports shall have a compression ridge effecting force against shelf edge to maintain positive pin engagement. Supports shall have molded-in screw attachment feature. Static test load shall exceed 200# per clip. Shelf spans above 27" shall have 5-point support with backs drilled to receive a mid-span shelf support, further reducing deflection. Shelf spans below 27" shall have end 4-point support.

F. Locks: High security 6-tumbler lock system shall be provided where noted by model number or indicated on drawings. Locks shall have die-cast body with dead bolt engagement tang. (Cylinder locks with attached rotating cams not acceptable.) Locks shall have removable and interchangeable 6-tumbler core for easy field and customer re-keying options. Locks shall be master keyed and available key-alike or key-different with 250 standard key changes and the possibility of up to 2000 total changes on special order. Each lock provided with a double bit key and face of lock stamped with key number.

G. Coat Hooks: Under mount and wall mount hooks shall be selected from Stevens Advantage Gallery Collection designs. Hooks shall be formed cold roll steel with ball end tips and welded in stamped steel base. Three (3) under mount designs (double, triple, wardrobe) and three (3) wall mount designs (single, double, schoolhouse). Styles shall be design coordinated with quality matte nickel plated finish. Attachment with #10 screws. (Cast hooks susceptible to breakage, non-matching finishes or designs, and smaller screw mounting not acceptable.)

2.06 Component Details and Construction:

A. Fronts: Door and drawer fronts shall be 3/4" thick. Fronts shall be edged with 3mm radius edge extrusion with face laminate as described in 2.01.A. Automated hot melt adhesive application and trimming.

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- B. Wall Cabinets: Components shall be 3/4" thick members throughout. Wall cabinet tops and bottoms shall include back groove and minimum four (4) dowel pins per joint for insertion into cabinet ends. Wall cabinet ends shall be 3/4" thick with back groove and precision Computer Numerical Control (CNC) drill pattern for accurate location of fixed members, hardware, and shelf supports. Wall cabinets to have two (2) integral (dowel into end) mounting frames. (Designs with simple spacer rails or rails without dowel pin engagement into ends are not acceptable.)
- C. Mounting Frames: Incorporated in wall units, tall units, and base units, shall be 3/4" thick with minimum two (2) dowel pins per mounting frame end joint for wall and tall units. Base units shall have a minimum of three (3) dowel pins per mounting frame end joint.
- D. Tall Cabinets: Components shall be 3/4" thick members throughout. Tall cabinet tops and bottoms shall include back groove and up to eight (8) total dowels per end joint (based on cabinet depth). Tall cabinet ends shall be 3/4" thick with back groove and precision CNC drill pattern for accurate location of fixed members, hardware, and shelf supports. Tall cabinets to have two (2) integral (dowel into end) mounting frames. (Designs with simple spacer rails or rails without dowel pin engagement into ends are not acceptable.)
- E. Base Cabinets: Components shall be 3/4" members throughout. Base unit bottoms shall incorporate back groove and up to eight (8) dowel pins per end joint (based on cabinet depth). Base units shall have a wide top and back frame feature. A wide frame in the flat horizontal plane at cabinet front with minimum three (3) dowels per end joint provides stable squaring of the top area. A second wide frame in the vertical plane behind back provides stable side-to-side rack resistance. Construction shall provide lateral and vertical stability. Open rear top area allows for easy wall mounting and ease of installation of mechanical services. (Sub tops without horizontal and vertical plane ridged frame members not acceptable.) Base cabinet ends shall be 3/4" thick with back groove and precision CNC drill pattern for accurate location of fixed members, hardware, and shelf supports.
- F. Toe Kicks: Separate exterior grade plywood ladder-base. Cabinet sides shall not extend to the floor.
- G. Cabinet Backs: Shall be in an integrated system of a 1/4" prefinished Medium Density Fiberboard (MDF) back captured in side and horizontal grooves. Unit back to be further integrated with attachment to 3/4" doweled-in mounting frames. Fixed backs are mechanically fastened into grooves and sealed with hot melt adhesive. Removable backs shall be set in groove and attached with screws.
- H. Adjustable Shelves: Shelves shall be 3/4" thick. Shelving shall have end 4-point support for spans under 27". Spans above 27" shall have 5-point support with backs drilled to receive additional mid-span shelf support, reducing deflection under heavier loads.
- I. Drawers: Four (4) sided full box design with separate attached front shall be provided. Drawer members shall be 3/4" thick with dowel pin construction at all four (4) corners. Drawer bottoms shall be 1/4" MDF trapped in groove four (4) edges as well as mechanically fastened. Entire drawer box to be thermofused or high pressure laminated. (Drawers utilizing 1/2" members or with overlay applied bottoms, non-captured groove, or staple joint construction not acceptable.)

2.07 Laminate Countertops:

- A. Countertops shall be high pressure decorative plastic laminate, thermoset to core using catalyzed Polyvinyl Acetate (PVA) glue with minimum average pressure of 80 PSI and average 180 degree F. temperature. Decorative laminate shall meet NEMA LD3-2005 PF-42 (.042") specification standards. Patterns chosen from Wilsonart Design Group I.
- B. Laminate tops shall be 1 1/16" thick with solid particleboard core structures and laminated with backer sheet. Moisture Resistant cores shall be used at all wet locations.
90 degree postform seamless front edge with matching applied backsplash.

2.08 Custom Millwork and Reception Desks:

- A. Build all custom millwork items per AWI Custom grade construction standards.
- B. Holes should be routed in the studs of the reception desk for wire management.
- C. All vertical grade surfaces should be GP28 premium grade plastic laminate. All horizontal surfaces should be GP50 plastic laminate, except quartz top.

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- D. All field joints must be laminated to resist moisture and allow for tighter seam installation.
- E. Exterior grade plywood should be used at all locations where the custom millwork desk(s) contact the floor.
- F. All millwork should be constructed in a climate controlled environment to minimize potential expansion and contraction conditions.
- G. All parts should be cut using CNC computer software and machinery to assure consistent part sizes.
- H. All glues used should have a minimum of at least 30% rubber contact for increased laminate adhesion.
- I. All radiused wood edging, trim, etc. should be laminated wood and not segmented. (if applicable)
- J. All wood trim items should comply with AWI custom grade construction standards. Species and stain shall be provided per the architectural drawings and/or finish schedule.
- K. Administration Reception Cabinets are to be lined with Bullet Resistant panels as manufactured by Armoured Resistance Mechanisms, Inc. (ARMI), P.O. Box 329, Fowlerville, MI 48836; phone 517-223-7618; fax 517-223-7678; www.banditproof.com. Panels are to be fiberglass-reinforced structural polyester laminate with fiberglass scrim, BRF-200, Protection Level 2 H.P.S.A., 5/16" thick. Bullet Resistant paneling is to be laminated to customary particle board outer vertical face materials to which plastic laminate is adhered.

2.09 Quartz Top:

Quartz at Administration Countertop. Provide "Waterfall" edge design. (See Allowance No. 2)

PART 3 EXECUTION

3.01 Installation:

- A. The installer must examine the job site and the conditions under which the work in this section is to be performed and notify the contractor in writing of any unsatisfactory conditions. Do not proceed with work under this section until unsatisfactory conditions have been corrected in a manner acceptable to the installer.
- B. Casework, countertops, and related materials to be conditioned to average prevailing humidity condition in installation areas prior to start of work.
- C. Install casework and countertops with factory-trained supervision, authorized by manufacturer. Casework shall be installed plumb, level, true, and straight with no distortions (shim as required). Casework shall be securely attached to building structure with anchorage devices of appropriate type, size, and quantity to meet applicable codes, specifications, and safety conditions. Where casework and countertops abut other finished work, scribe and trim to accurate fit, and caulk as required.
- D. Adjust casework and hardware so that doors and drawers operate smoothly without warp or bind. Lubricate operating hardware.
- E. Repair, or remove and replace, defective work as directed upon completion of installation.
- F. Advise project site superintendent of problems and precautions for protection of casework and countertops from damage by other trades until acceptance of the work by the owner.
- G. Cover casework with 4-mil polyethylene film for protection against soiling and deterioration during remainder of construction period.

END OF SECTION 12 30 00