

**ADDENDUM 2**

**ADDENDUM DATE:** November 13, 2017

**PROJECT:** Onslow County Courthouse Courtroom Built-in  
109 Old Bridge Street  
Jacksonville, NC 28540

**OWNER:** Onslow County  
234 NW Corridor Blvd  
Jacksonville, NC 28540

**ARCHITECT:** Smith Sinnett Architecture, P.A.  
4600 Lake Boone Trail, Suite 205  
Raleigh, North Carolina 27607

**BIDS DUE:** **Thursday, November 16, 2017 @ 2:00 p.m.**  
Onslow County Government Center  
234 NW Corridor Blvd.  
Room 111  
Jacksonville, NC 28540

**Please note, Project Addendums and Bidders List are available at [www.smithsinnett.com](http://www.smithsinnett.com) under the 'Documents' icon on the navigation bar.**

This Addendum shall be included in the contract for the above referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

This Addendum consists of (8) total pages. Attached documents include: (7) Specifications Sections.

**CHANGES TO SPECIFICATIONS**

**Section 06 40 23 – Interior Architectural Woodwork**

- Item 1 Replace the entire Specification section 06 40 23-Interior Architectural Woodwork with the attached specification section for revisions to the Engineered Quartz countertop and concealed server cabinet hardware.

**End of Addendum 2**

**SECTION 06 40 23 - INTERIOR ARCHITECTURAL WOODWORK**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
  - 1. Wood veneer casework.
  - 2. Courtroom furnishings.
- B. Related Sections include the following:
  - 1. Division 06 Section "Rough Carpentry" for wood furring, blocking, shims, and hanging strips required for installing woodwork and concealed within other construction before woodwork installation.
  - 2. Division 06 Section "Interior Architectural Woodwork" for wood paneling and trim.

1.3 DEFINITIONS

- A. Interior architectural woodwork includes wood furring, blocking, shims, and hanging strips for installing woodwork items unless concealed within other construction before woodwork installation.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated, including cabinet hardware and accessories handrail brackets and finishing materials and processes.
- B. Product Data: For panel products, high-pressure decorative laminate, cabinet hardware and finishing materials and processes.
- C. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.
  - 1. Show details full size.
  - 2. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
  - 3. Show locations and sizes of cutouts and holes for **electrical devices and other items** installed in architectural woodwork.
  - 4. Show veneer leaves with dimensions, grain direction, exposed face, and identification numbers indicating the flitch and sequence within the flitch for each leaf.
- D. Samples for Initial Selection:
  - 1. Shop-applied transparent finishes.
  - 2. Shop-applied opaque finishes.
  - 3. Quartz Material Sample
- E. Samples for Verification:

1. Lumber with or for transparent finish, not less than **50 sq. in.**, for each species and cut, finished on 1 side and 1 edge.
  2. Veneer leaves representative of and selected from flitches to be used for transparent-finished woodwork.
  3. Veneer-faced panel products with or for transparent finish, **8 by 10 inches**, for each species and cut. Include at least one face-veneer seam and finish as specified.
  4. Lumber and panel products with shop-applied opaque finish, **50 sq. in.** for lumber and **8 by 10 inches** for panels, for each finish system and color, with **1/2 of** exposed surface finished.
  5. Exposed cabinet hardware and accessories, one unit for each type **and finish**.
- F. Qualification Data: For **Installer** and **fabricator**.

#### 1.5 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.
- B. Source Limitations: Engage a qualified woodworking firm to assume undivided responsibility for production of interior architectural woodwork with sequence-matched wood veneers **and wood doors with face veneers that are sequence matched with woodwork**.
- C. Quality Standard: Unless otherwise indicated, comply with WI's "Manual of Millwork" for grades of interior architectural woodwork indicated for construction, finishes, installation, and other requirements.
- D. Fire-Test-Response Characteristics: Where fire-retardant materials or products are indicated, provide materials and products with specified fire-test-response characteristics as determined by testing identical products per test method indicated by UL, ITS, or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify with appropriate markings of applicable testing and inspecting agency in the form of separable paper label or, where required by authorities having jurisdiction, imprint on surfaces of materials that will be concealed from view after installation.
  1. Surface-Burning Characteristics: Not exceeding values indicated below, tested per ASTM E 84 for standard time period (10 minutes).
    - a. Flame Spread: 75.
    - b. Smoke Developed: 450.
- E. Preinstallation Conference: Conduct conference at Project site.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver woodwork until painting and similar operations that could damage woodwork have been completed in installation areas. If woodwork must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Project Conditions" Article.

#### 1.7 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.
- B. Field Measurements: Where woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
  1. Locate concealed framing, blocking, and reinforcements that support woodwork by field measurements before being enclosed, and indicate measurements on Shop Drawings.

2. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating woodwork without field measurements. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

## 1.8 COORDINATION

- A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that interior architectural woodwork can be supported and installed as indicated.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. General: Provide materials that comply with requirements of **AWS's** quality standard for each type of woodwork and quality grade specified, unless otherwise indicated.
- B. Wood Products: Comply with the following:
  1. Hardboard: AHA A135.4.
  2. Medium-Density Fiberboard: ANSI A208.2, Grade MD, **made with binder containing no urea formaldehyde.**
  3. Particleboard: ANSI A208.1, Grade **M-2.**
  4. Softwood Plywood: DOC PS 1, **Medium Density Overlay.**
  5. Veneer-Faced Panel Products (Hardwood Plywood): HPVA HP-1.
- C. Engineered Quartz Surfaces :
  1. Manufacturer: Basis of Design: Hanstone Quartz;
  2. Product to meet all specification criteria as stated:
    - a. Provide [ Min. 5/8" (15mm) ] thick comprised of silicone dioxide quartz chips in matrix set.
    - b. Flammability [Class A when tested to NFPA 255] [Class A when tested to ASTM E84]
    - c. Hardness (Mohs Scale):7
    - d. Finish (Polished)
    - e. Density (KSF 2530) : 2.456g/cm
    - f. Stain Resistance (ANSI Z124.6.5.2)
    - g. Tensile Strength (ASTM D638); 17.8 MPa
    - h. Provide continuous rolled edge at all corners and edges.
  3. Type: Standard type, unless Special Purpose type is indicated.
  4. Colors and Patterns: As selected by Architect from manufacturer's full range including premium color selections
  5. Subject to compliance with requirements, provide quartz countertops by basis of design with the following approved equals by one of the following:
    - a. Cambria
    - b. Caesarstone
    - c. Silestone
    - d. Zodiaq by Dupont
    - e. Daltile- One Quartz
  6. Installation:
    - a. Install materials plumb and level

- b. Install materials to substrate according to manufacturers installation guidelines.
  - c. Form field joints using manufacturers recommended adhesives.
  - d. Avoid placing joints within 12" of surface edges.
7. Submittals:
- a. Provide a 4" x 4" color sample of each color from the manufacturer's full range of colors.
  - b. Submit shop drawings showing the plans, sections and large scale details and indicating method of installation and fabrication.
  - d. Provide manufacturers material safety data sheets
8. Warranty:
- a. Provide a copy of the manufacturers commercial 10 year warranty.

## 2.2 CABINET HARDWARE AND ACCESSORIES

- A. General: Provide cabinet hardware and accessory materials associated with architectural cabinets.
- B. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602, 135 degrees of opening, **self-closing**.
- C. Adjustable Shelf Standards and Supports: BHMA A156.9, B04071; with shelf rests, B04081.
- D. Grommets for Cable Passage through Countertops: 2-inch OD, **black**, molded-plastic grommets and matching plastic caps with slot for wire passage. (provide 1 per everything 3'-0" of countertop or as indicated on the drawings)
  - 1. Product: Subject to compliance with requirements.
- E. Server Racks: Provide UTRUSTRA push to open/close concealed door hardware or approved equal with manufacturer's standard finish that complies with product class requirements.
- F. Specialty Items:
  - 1. Metal Parts: Countertop support brackets, undercounter support frames, legs and miscellaneous metal parts shall be furniture steel, welded, degreased, cleaned, treated and epoxy powder painted in dove grey, frosty white or light beige to match basic cabinet body color, or in a contrasting slate grey or black color.

## 2.3 MISCELLANEOUS MATERIALS

- A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln dried to less than 15 percent moisture content.
- B. Furring, Blocking, Shims, and Hanging Strips: Fire-retardant-treated softwood lumber, kiln dried to less than 15 percent moisture content.
- C. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls and elsewhere as required for corrosion resistance. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.
- D. Adhesives, General: Do not use adhesives that contain urea formaldehyde.
- E. VOC Limits for Installation Adhesives and Glues: Use installation adhesives that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
  - 1. Wood Glues: 30 g/L.
  - 2. Contact Adhesive: 80 g/L.

## 2.4 FABRICATION, GENERAL

- A. Interior Woodwork Grade: Unless otherwise indicated, provide **Premium**-grade interior woodwork complying with referenced quality standard.
- B. Wood Moisture Content: Comply with requirements of referenced quality standard for wood moisture content in relation to ambient relative humidity during fabrication and in installation areas.
- C. Complete fabrication, including assembly, **finishing**, and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
  - 1. Notify Architect seven days in advance of the dates and times woodwork fabrication will be complete.
  - 2. Trial fit assemblies at fabrication shop that cannot be shipped completely assembled. Install dowels, screws, bolted connectors, and other fastening devices that can be removed after trial fitting. Verify that various parts fit as intended and check measurements of assemblies against field measurements indicated on Shop Drawings before disassembling for shipment.
- D. Shop-cut openings to maximum extent possible to receive hardware, appliances, plumbing fixtures, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.
- E. Install glass to comply with applicable requirements in Division 08 Section "Glazing" and in GANA's "Glazing Manual." For glass in wood frames, secure glass with removable stops.

## 2.5 WOOD CABINETS FOR TRANSPARENT FINISH

- A. Grade: **Premium**.
- B. AWS Type of Cabinet Construction: **Flush overlay**.
- C. WI Construction Style: Style A **Frameless**.
- D. WI Construction Type: Type I, multiple self-supporting units rigidly joined together.
- E. WI Door and Drawer Front Style: Full **Flush overlay**.
- F. Reveal Dimension: **1/4 inch max**
- G. Wood Species and Cut for Exposed Surfaces: Premium Select Red Oak, **rift sawn**.
  - 1. Grain Direction: Horizontally for drawer fronts and Vertically for doors, and fixed panels.
  - 2. Matching of Veneer Leaves: **Book** match.
  - 3. Vertical Matching of Veneer Leaves: End match.
  - 4. Veneer Matching within Panel Face: **Balance** match.
  - 5. Veneer Matching within Room: Provide cabinet veneers in each room or other space from a single flitch with doors, drawer fronts, and other surfaces matched in a sequenced set with continuous match where veneers are interrupted perpendicular to the grain.
  - 6. Comply with veneer and other matching requirements indicated for blueprint-matched paneling.
- H. Semiexposed Surfaces: Provide surface materials indicated below:
  - 1. Surfaces Other Than Drawer Bodies: Same species and cut indicated for exposed surfaces.
  - 2. Drawer Sides and Backs: **Plywood**.
  - 3. Drawer Bottoms: **Plywood**.
- I. Provide dust panels of **1/4-inch** plywood or tempered hardboard above compartments and drawers, unless located directly under tops.

## 2.6 WOOD CABINETS FOR TRANSPARENT FINISH

- A. Grade: Premium.

- B. AWS Type of Cabinet Construction: Flush overlay.
- C. WI Construction Style: Style A **Frameless**.
- D. WI Construction Type: Type I, multiple self-supporting units rigidly joined together.
- E. WI Door and Drawer Front Style: Full **Flush overlay**.
- F. Reveal Dimension: **1/4 inch max**.
- G. Wood Species and Cut for Exposed Surfaces: Premium Select Red Oak, rift sawn.
  - 1. Grain Direction: Horizontally for drawer fronts and Vertically for doors, and fixed panels.
  - 2. Matching of Veneer Leaves: **Book** match.
  - 3. Vertical Matching of Veneer Leaves: End match.
  - 4. Veneer Matching within Panel Face: **Balance** match.
  - 5. Veneer Matching within Room: Provide cabinet veneers in each room or other space from a single flitch with doors, drawer fronts, and other surfaces matched in a sequenced set with continuous match where veneers are interrupted perpendicular to the grain.
  - 6. Comply with veneer and other matching requirements indicated for blueprint-matched paneling.
- H. Semiexposed Surfaces: Provide surface materials indicated below:
  - 1. Surfaces Other Than Drawer Bodies: Same species and cut indicated for exposed surfaces.
  - 2. Drawer Sides and Backs: **Plywood**.
  - 3. Drawer Bottoms: **Plywood**.

## 2.7 SHOP FINISHING

- A. Grade: Provide finishes of same grades as items to be finished.
- B. General: Finish architectural woodwork at fabrication shop as specified in this Section. Defer only final touchup, cleaning, and polishing until after installation.
- C. General: Shop finish transparent-finished interior architectural woodwork at fabrication shop as specified in this Section.
- D. General: Shop finish all wood work unless otherwise noted. Finish such items at fabrication shop as specified in this Section.
- E. Shop Priming: Shop apply the prime coat including backpriming, if any, for items specified to be field finished.
- F. Preparation for Finishing: Comply with referenced quality standard for sanding, filling countersunk fasteners, sealing concealed surfaces, and similar preparations for finishing architectural woodwork, as applicable to each unit of work.
- G. Backpriming: Apply one coat of sealer or primer, compatible with finish coats, to concealed surfaces of woodwork. Apply two coats to back of paneling and to end-grain surfaces. Concealed surfaces of plastic-laminate-clad woodwork do not require backpriming when surfaced with plastic laminate.
- H. Transparent Finish:
  - 1. Grade: **Premium** – Wood work shall match approved wood door finish sample “Masonite Architectural, Aspiro Series, Nutmeg (medium brown stain color).”
- I. Opaque Finish:
  - 1. Grade: **Premium**.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Before installation, condition woodwork to average prevailing humidity conditions in installation areas.
- B. Before installing architectural woodwork, examine shop-fabricated work for completion and complete work as required, including removal of packing and backpriming.

### 3.2 INSTALLATION

- A. Grade: Install woodwork to comply with requirements for the same grade specified in Part 2 for fabrication of type of woodwork involved.
- B. Assemble woodwork and complete fabrication at Project site to comply with requirements for fabrication in Part 2, to extent that it was not completed in the shop.
- C. Install woodwork level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb (including tops) to a tolerance of **1/8 inch in 96 inches**.
- D. Scribe and cut woodwork to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
- E. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation. Use fine finishing nails **or finishing screws** for exposed fastening, countersunk and filled flush with woodwork and matching final finish if transparent finish is indicated.
- F. Cabinets: Install without distortion so doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.
  - 1. Install cabinets with no more than **1/8 inch in 96-inch** sag, bow, or other variation from a straight line.
  - 2. Maintain veneer sequence matching of cabinets with transparent finish.
  - 3. Fasten wall cabinets through back, near top and bottom, at ends and not more than **16 inches** o.c.
- G. Countertops: Anchor securely by screwing through corner blocks of base cabinets or other supports into underside of countertop.
  - 1. Align adjacent quartz countertops and form seams to comply with manufacturer's written recommendations using adhesive in color to match countertop. Carefully dress joints smooth, remove surface scratches, and clean entire surface.
  - 2. Install countertops with no more than **1/8 inch in 96-inch** sag, bow, or other variation from a straight line.
  - 3. Secure backsplashes **to walls with adhesive**.
  - 4. Caulk space between backsplash and wall with sealant specified in Division 07 Section "Joint Sealants."
- H. Touch up finishing work specified in this Section after installation of woodwork. Fill nail holes with matching filler where exposed.

### 3.3 ADJUSTING AND CLEANING

- A. Repair damaged and defective woodwork, where possible, to eliminate functional and visual defects; where not possible to repair, replace woodwork. Adjust joinery for uniform appearance.
- B. Clean, lubricate, and adjust hardware.
- C. Clean woodwork on exposed and semiexposed surfaces. Touch up shop-applied finishes to restore damaged or soiled areas.

**END OF SECTION 06 40 23**