

Section 06 10 00 Rough Carpentry

Specifications

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PART 1 - GENERAL

- 1.01 SECTION INCLUDES
- A. Blocking in wall and roof openings; wood furring and grounds; electrical panel back boards, concealed wood blocking.
 - B. Concealed wood blocking for support of toilet and bath accessories, wall cabinets, wood trim, where illustrated in drawings.
- 1.02 RELATED SECTIONS
- A. Section 04 22 00 – Concrete Unit Masonry: Concrete Block wall.
 - B. Section 06 40 00 – Interior Architectural Woodwork: Walls to receive wood blocking for millwork.
 - C. Section 09 29 16 - Gypsum Board Systems: Walls to receive blocking for doors, windows, toilet accessories, door frames, etc.
- 1.03 REFERENCES
- A. ALSC (American Lumber Standards Committee) - Softwood Lumber Standards.
 - B. ANSI A208.1 - Mat-Formed Wood Particleboard.
 - C. APA (American Plywood Association).
 - D. NFPA (National Forest Products Association).
 - E. SPIB (Southern Pine Inspection Bureau).
- 1.04 QUALITY ASSURANCE
- A. Perform Work in accordance with the following agencies:
 - 1. Lumber Grading Agency: Certified by ALSC.
 - 2. Plywood Grading Agency: Certified by APA.

PART 2 - PRODUCTS

- 2.01 LUMBER MATERIALS
- A. Lumber Grading Rules: WWPA.
 - B. Non-Structural Light Framing: 2 x 2 Southern Pine species, 19 percent maximum moisture content, No. 2 Kiln Dried.
 - C. Plate: Pressure treated Southern Pine, No. 2 Kiln Dried.
- 2.02 SHEATHING MATERIALS
- A. Plywood Sheathing APA rated sheathing, classified for exterior use; 5/8 inch thick, 48 x 96 inch sized sheets, square edges, preservative treated AWPA C9.
- 2.03 FACTORY WOOD TREATMENT
- A. Wood Preservative Pressure Treatment: AWPA Treatment C1 using water borne preservative with 0.25 percent retainage.
 - B. Wood Preservative Surface Application: Clear type.
 - C. Moisture Content: Kiln dried after treatment to attain max. 19% for lumber and max. 15% for plywood
- 2.04 FIRE-TREATED WOOD:
- A. Used above ceilings and/ or within fire-rated enclosures plus other areas as required by code. Max. 25 flame spread per ASTM E-84. Isolate from contact with metal items.
- 2.05 PRESSURE TREATED WOOD:
- A. Used in contact with masonry, steel, concrete, and/ or roofing system materials.
 - B. Micronized copper quaternary at locations in contact with aluminum
 - C. Hot-dipped galvanized and/ or stainless steel fasteners in accordance with manufacturers instructions

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PART 3 - EXECUTION

3.01 FRAMING

- A. Erect wood framing members in accordance with applicable codes. Set members level and plumb, in correct position.
- B. Make provisions for erection loads, and for sufficient temporary bracing to maintain structure safe, plumb, and in true alignment until completion of erection and installation of permanent bracing.
- C. Place horizontal members, crown side up.
- D. Construct load bearing framing members full length without splices.
- E. Double members at openings over 16 inches wide. Space short studs over and under opening to stud spacing.

3.02 SHEATHING

- A. Secure sheathing with longer edge perpendicular to framing members and with ends staggered and sheet ends over bearing.
- B. Use sheathing clips between sheets between roof framing members. Fully engage tongue and groove edges.
- C. Secure wall sheathing with long dimension parallel to wall studs, with ends over firm bearing and staggered.
- D. Place plywood or structural-use panel sheathing at building corners for a horizontal distance of 48 inches.
- E. Secure subfloor sheathing with longer edge perpendicular to floor framing and with end joints staggered and sheet ends over bearing. Attach with subfloor glue and drywall screws.
- F. Place building wrap over wall sheathing, weather lap joints and end laps, fasten as directed by manufacturer.

3.03 BACKBOARDS

- A. Install telephone and electrical panel back boards with plywood sheathing material where required. Size the backboard by 12 inches beyond size of electrical panel.

3.04 TOLERANCES

- A. Framing Members: 1/4 inch from true position, maximum.
- B. Surface Flatness of Floor: 1/4 inch in 10 feet.

END OF SECTION

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PART 1 GENERAL

- 1.01 SECTION INCLUDES
- A. Finish carpentry items, other than factory prefabricated casework, including shop fabricated cabinets, wood sills, door, window, and borrow lite openings; solid surfacing countertops; painted fixed shelving.
 - B. Hardware and attachment accessories.
- 1.02 RELATED SECTIONS
- A. Section 06 10 00 – Rough Carpentry
 - B. Section 09 90 00 - Painting: Painting and finishing of finish carpentry items.
- 1.03 REFERENCES
- A. ANSI A208.1 - Mat Formed Wood Particleboard.
 - B. AWI - Quality Standards.
 - C. BHMA A156.9 - Cabinet Hardware.
 - D. FS MMM-A-130 - Adhesive, Contact.
- 1.04 SUBMITTALS
- A. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, finishes, and accessories. Submit material and method of patching at existing doors where door hardware will be been removed.
 - B. Product Data: Submit data for hardware accessories.
- 1.05 QUALITY ASSURANCE
- A. Perform work in accordance with the following:
 - 1. Reception desk, base cabinet and wood feature wall paneling at Reception-102 and Reception desk at Guidance Area-106: AWI Premium Grade quality.
 - 2. All other items: AWI Custom Grade quality.
- 1.06 QUALIFICATIONS
- A. Fabricator: Company specializing in fabricating the products specified in this section with minimum three years experience.
 - B. Solid Surfacing fabricator and installer shall be approved by solid surface manufacturer.
- 1.07 DELIVERY, STORAGE, AND HANDLING
- A. Protect work from moisture damage.
- 1.08 FIELD MEASUREMENTS
- A. Verify that field measurements are as indicated on drawings.
- 1.09 MOCK-UPS
- A. Provide full size mock-up of new door frame for Architect's approval; acceptable work may remain.
 - B. Provide patching mock-up at existing wood door frame at removed door hardware (fully finished-coordinate with Section 09 90 00) for Architect's approval; acceptable work may remain.
- 1.10 COORDINATION
- A. Coordinate work with plumbing and electrical rough-in and installation of associated components.

PART 2 PRODUCTS

- 2.01 SHAPES AND TRIM
- A. Softwood Lumber: Blocking, furring strips, etc. Number 1 Southern Pine or Fir.
 - B. Hardwood Lumber: Plain sawn white oak at wood frames, trim, and moldings:
- 2.02 SHEET MATERIALS
- A. Hardwood Plywood: Matching Edge band all exposed edges.
 - 1. Cabinets: AWI Grade I; maximum moisture content of 8 percent; and the following:
 - a. Species of Wood: White Oak

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- b. Cut or Slicing of Wood: Rift Cut.
 - B. Hardwood Lumber: Exterior facing: Premium fir, plain sawn at painted millwork.
 - C. Wood Particleboard: ANSI A208.1 Type 2; of grade to suit application; sanded faces.
 - D. Medium Density Fiberboard (MDF): $\frac{3}{4}$ " thick; in accordance with AWI Custom construction.
 - E. Matching: Bookmatched between adjacent leaves, panel endmatched, and center balanced matched.
- 2.03 PLASTIC LAMINATE MATERIALS
 - A. Plastic Laminate: Material as specified on drawings with matte finish unless otherwise noted otherwise.
 - B. Low Pressure Laminate: Melamine; color and texture to match adjacent plastic laminate.
 - C. Manufacturers:
 - 1. Wilsonart
 - 2. Formica
- 2.04 SOLID SURFACING
 - A. Manufacturers:
 - 1. Corian
 - 2. Wilsonart Gibraltar
 - B. Warranty: Provide manufacturer's 10 year warranty against defects in materials; warranty shall provide material and labor to repair or replace defective materials.
 - C. Material: Homogeneous filled acrylic; not coated, laminated or of composite construction; meeting ANSI Z124.3 & .6, Type Six; superficial damage to a depth of 0.010" shall be repairable by sanding/polishing.
 - D. Accessories:
 - 1. Joint adhesive: Same manufacturer's standard two-part adhesive kit to create inconspicuous, non-porous joints, with a chemical bond.
 - 2. Panel adhesive: Same manufacturer's standard neoprene-based panel adhesive meeting ANSI A136.1-1967 UL listed.
 - 3. Sealant: Same manufacturer's standard mildew-resistant, FDA/UL recognized silicone sealant in color matching or clear formulations.
- 2.05 ACCESSORIES
 - A. Lumber for Shimming and Blocking: Softwood lumber of pure species.
 - B. Wood Patching Compound: As suitable to accept finish required in drawings and as necessary to blend into existing species of wood, shape, and finish.
- 2.06 HARDWARE
 - A. Adhesive for High Pressure Decorative Laminates: Type recommended by laminate manufacturer to suit application.
 - B. Veneer Edge Band: 1/8" wood veneer edge band matching face veneer.
 - C. Safety Glass: Clear, fully tempered, polished exposed edges, thicknesses indicated in drawings.
 - D. Fasteners: Size and type to suit application.
 - E. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; nickel finish in concealed locations and veneer-matching finish in exposed locations.
 - F. Concealed Joint Fasteners: Threaded steel.
 - G. Grommets: Metal material for cut-outs; of color selected by Architect from standard colors.
 - H. Hinges: Clip style, half overlay/twin, bright nickel finish, self-closing; self-closing function.
 - I. Shelf Supports: 5 mm for line-bored holes, angular, clear metal finish; provide quantity as required for all adjustable shelves indicated in drawings (with 10% surplus to be provided to Owner).
 - J. Drawer Slides: self-closing, tandem style, zinc-plated steel finish, 150 pound load
 - K. Pulls: Wire-type, clear brushed aluminum finish.
 - L. Bumpers: Polyurethane, clear, self-adhesive, with UV inhibitors, 6.4 x 1.6 mm; provide quantity as required for all cabinet doors indicated in drawings (with 10% surplus to be provided to Owner).
 - M. Cabinet Locks: Keyed cylinder, two keys per lock, steel with satin finish.
 - N. Coat Hooks: as per the drawings.
 - O. Finish of all cabinet hardware (except grommets) shall match that of door hardware of Section 08 71 00.
 - P. Manufacturers:
 - 1. Hafele
 - 2. Julius Blum

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3. Knappe & Vogt
4. Approved equals.

2.07 FABRICATION

- A. Fabricate to AWI Custom standards.
- B. Shop assemble work for delivery to site, permitting passage through building openings.
- C. Cap exposed plastic laminate finish edges with material of same finish and pattern.
- D. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.
- E. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
- F. Mechanically fasten back splash to countertops with steel brackets at 16 inches on center.
- G. Provide cutouts for plumbing fixtures, inserts, appliances, outlet boxes, fixtures and fittings, etc. Verify locations of cutouts from on-site dimensions. Seal cut edges.
- H. Fit shelves, doors, and exposed edges with matching veneer edging. Use one piece for full length
- I. Door and Drawer Fronts: 3/4 inch thick; reveal overlay on face frame style.
- J. Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.
- K. Solid Surfacing: Fabricate and install components in accordance with manufacturer's standards and in accordance with approved shop drawings. Joints shall be inconspicuous in appearance without voids; attach 2" wide reinforcing strip of solid polymer material under each joint. Provide holes and cutouts for plumbing and accessories as indicated on drawings. Route and finish component edges to a smooth, uniform finish. Route all cutouts, then sand all edges smooth. Repair or reject defective or inaccurate work. Finish shall be matte, with a gloss rating of 5-20.

2.08 FINISHING

- A. Sand work smooth and set exposed nails and screws.
- B. Apply wood filler in exposed nail and screw indentations.
- C. Prime paint surfaces in contact with cementitious materials.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify adequacy of backing and support framing.
- B. Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.

3.02 INSTALLATION

- A. Install work in accordance with AWI Custom Quality Standard.
- B. Set and secure materials and components in place, plumb and level.
- C. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.
- D. Install components with screws at 16 inches on center.
- E. Install hardware in accordance with manufacturer's instructions.
- F. Solid Surfacing: Form field joints using manufacturer's recommended adhesive, with joints inconspicuous in finished work. Keep components and hands clean when making joints. Provide backsplashes and endsplashes as indicated in drawings. Adhere to countertops with manufacturer's standard color-matched silicone sealant.

3.03 PREPARATION FOR SITE FINISHING

- A. Before installation, prime paint surfaces of items or assemblies to be in contact with cementitious materials.

3.04 ERECTION TOLERANCES

- A. Maximum Variation from True Position: 1/16 inch.
- B. Maximum Offset from True Alignment with Abutting Materials: 1/32 inch.

END OF SECTION

Section 07 11 13 Bituminous Dampproofing

Specifications

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Dampproofing of concrete masonry, using surface application, in the following locations:
 - 1. Install at exterior face of masonry prior to installation of board insulation.

1.2 RELATED SECTIONS

- A. Section 04 22 00 – Concrete Unit Masonry.

1.3 REFERENCES

- A. ASTM D-1227 Type III.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Product Data: Manufacturer's printed data sheet, for specified products.
- C. Certificates: Product certificates signed by manufacturer certifying that:
 - 1. Materials comply with specified performance characteristics and physical requirements.
 - 2. Installer is qualified and approved by manufacturer.
- D. Manufacturer's installation instructions.
- E. Manufacturer's report on field inspection of substrates, prior to installation.
- F. Executed warranties.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A firm with not less than 10 years experience manufacturing crystalline waterproofing of the type specified, able to provide test reports showing compliance with specified performance characteristics, and able to provide on-site technical representation to advise on installation.
- B. Installer Qualifications: Experienced in work of the type specified in this section and approved in writing by waterproofing manufacturer.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Store materials protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.

1.7 WARRANTY

- A. Manufacturer's Warranty: Provide manufacturer's standard warranty document executed by authorized company official; warranty period: 5 years commencing on Date of Substantial Completion.
- B. Installer's Warranty: Provide warranty signed by installer that reads as follows:
 - 1. Installer warrants that, upon completion of the work, surfaces treated with crystalline waterproofing will be and will remain free of water leakage resulting from defective workmanship or materials for a period of 5 years from Date of Substantial Completion.
 - 2. In the event that water leakage occurs within the warranty period from such causes, the installer shall, at his own expense, repair, replace, or otherwise correct such defective workmanship and materials.
 - 3. Installer shall not be liable for consequential damages.
 - 4. Installer's liability shall be limited to repair, replacement, or correction of defective workmanship and materials.
 - 5. This warranty excludes leaks or other defects due to causes beyond the installer's control, including but not limited to structural failure, movement of the structure, fire, earthquakes, tornadoes, and hurricanes.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Karnak: 100 AF
- B. Tamms: Dehydratine 75
- C. Sonneborn Hydrocide 600