

SECTION 061000 - ROUGH CARPENTRY

PART 1 - GENERAL:

NOTE TO GENERAL CONTRACTORS: WHEN WORKING IN HISTORICAL AREAS OR ON HOMES DESIGNATED AS HAVING HISTORICAL SIGNIFICANCE, THE COJ PLANNING DEPARTMENT MAY CAUSE SOME OF THE FOLLOWING TO BE AMENDED ON A CASE BY CASE BASIS. GENERAL CONTRACTORS WILL BE NOTIFIED IF SUCH REQUIREMENTS APPLY TO ANY PARTICULAR PROJECT

1.1 SECTION REQUIREMENTS

- A. Replace all deteriorated wall framing, subject to an open wall inspection by the NSP construction Manager and/or the City of Jacksonville Inspector, including studs, sole plate, top plate, and bracing. All work shall be done in accordance with the following specifications and the local and state building codes.
- B. Repair and Replace the existing woods columns as needed. Match the existing columns as closely as possible. Include the repair of the column bases and captions as well. Include all hardware and brackets necessary to complete the work. All work shall be done in accordance with the following specifications and the local and state building codes.
- C. Repair and replace any missing, broken, damaged or deteriorated material pertaining to the porch and landings.
- D. Repair and replace existing porch/entry steps as needed. Construct a minimum thirty-six (36") inch wide steps to the porch area to match existing materials. The bottom of the stringers will be placed on a minimum of a 4" x 8" x 16" cap block to prevent the stringers from coming into contact with the ground. All risers and treads shall be the same height and size throughout the same run. ALL MATERIAL SHALL BE EXTERIOR GRADE, TREATED LUMBER.
- E. Any interior floor must not exceed a 1% slope. If an excessive slope is encountered, the Developer must take the necessary steps to correct, including but not limited to engaging a structural engineer.
- F. Floor and Ceiling Joists – Replace and install all deteriorated or damaged floor/ceiling joists in accordance with the local and state building code. ALL WORK SHALL BE PERMITTED through the City of Jacksonville. The size of the joists shall be determined by a structural engineer.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

- A. Lumber: Provide dressed lumber, S4S, marked with grade stamp of inspection agency.

- B. Engineered Wood Products: Acceptable to authorities having jurisdiction and for which current model code research or evaluation reports exist that show compliance with building code in effect for Project.

2.2 TREATED MATERIALS

- A. Preservative-Treated Materials: AWP C2, except that lumber not in ground contact and not exposed to the weather may be treated according to AWP C31 with inorganic boron (SBX).
 - 1. Use treatment containing no arsenic or chromium.
 - 2. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent.
 - 3. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
- B. Provide preservative-treated materials for all rough carpentry unless otherwise indicated.
 - 1. Wood members in connection with roofing, flashing, vapor barriers, and waterproofing.
 - 2. Concealed members in contact with masonry or concrete.
 - 3. Wood framing members that are less than 18 inches above the ground.
 - 4. Wood floor plates that are installed over concrete slabs-on-grade.
- C. Fire-Retardant-Treated Materials: Comply with performance requirements in AWP C20.
 - 1. Use Exterior type for exterior locations.
 - 2. Use Interior Type A, High Temperature (HT) for enclosed roof framing, framing in attic spaces, and where indicated.
 - 3. Use Interior Type A unless otherwise indicated.
 - 4. Identify with appropriate classification marking of a testing and inspecting agency acceptable to authorities having jurisdiction.
- D. Provide fire-retardant treated materials for all rough carpentry.

2.3 LUMBER

- A. Dimension Lumber:
 - 1. Maximum Moisture Content: 19 percent for 2-inch nominal thickness or less, no limit for more than 2-inch nominal thickness.
 - 2. Non-Load-Bearing Interior Partitions: Standard, Stud, or No. 3
 - 3. Framing Other Than Non-Load-Bearing Interior Partitions: Construction or No. 2
 - 4. Retain subparagraph below for better appearance for exposed work.
 - 5. Exposed Framing: Provide material hand-selected for uniformity of appearance and freedom from characteristics, on exposed surfaces and edges, that would impair finish appearance, including decay, honeycomb, knot-holes, shake, splits, torn grain, and wane.
 - a. Species: As specified for framing other than non-load-bearing interior partitions.
 - b. Grade: Select Structural or No. 1
- B. Timbers 5-Inch Nominal Size and Thicker: Select Structural, No. 1 or Douglas fir.

1. Maximum Moisture Content: 23 percent.
- C. Exposed Boards: Mixed southern pine, No. 1 with 19 percent maximum moisture content.
- D. Concealed Boards: Eastern softwoods, No. 3 Common: NELMA or Mixed southern pine, No. 2: SPIB; with 19 percent maximum moisture content.
- E. Miscellaneous Lumber: Standard, Stud, or No. 3 grade with 19 percent maximum moisture content of any species. Provide for nailers, blocking, and similar members.

2.4 ENGINEERED WOOD PRODUCTS

- A. Engineered wood products with allowable design stresses, as published by manufacturer, that meet or exceed those indicated. Manufacturer's published values shall be demonstrated by comprehensive testing.
- B. Laminated-Veneer Lumber: Manufactured with exterior-type adhesive complying with ASTM D 2559. Allowable design values determined according to ASTM D 5456.
 1. Extreme Fiber Stress in Bending, Edgewise: Minimum of 2600 psi for 12-inch nominal depth members.
 2. Modulus of Elasticity, Edgewise: Minimum of 1,800,000 psi
- C. Wood I-Joists: Prefabricated units, made with solid or structural composite lumber flanges and wood-based structural panel webs, let into and bonded to flanges. Provide units complying with material requirements of and with structural capacities established and monitored according to ASTM D 5055.
 1. Web Material: Either oriented strand board or plywood, Exposure 1.
 2. Structural Properties: Provide units with depths and design values not less than those indicated.
 3. Provide units complying with APA PRI-400, factory marked with nominal joist depth, joist class, span ratings, mill identification, and compliance with APA standard.
- D. Rim Boards: Product designed to be used as a load-bearing member and to brace wood I-joists at bearing ends, complying with research/evaluation report for I-joists.
 1. Material: glued-laminated wood or product made from any combination solid lumber, wood strands, and veneers.
 2. Thickness: Minimum of 1-1/8 inches.

2.5 PLYWOOD BACKING PANELS

- A. Telephone and Electrical Equipment Backing Panels: Plywood, Exterior, AC, Exterior or C-C Plugged, fire-retardant treated, not less than 1/2-inch nominal thickness.

2.6 MISCELLANEOUS PRODUCTS

- A. Fasteners: Size and type indicated. Where rough carpentry is exposed to weather, in ground contact, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M or of Type 304 stainless steel.
 - 1. Power-Driven Fasteners: CABO NER-272.
 - 2. Bolts: Steel bolts complying with ASTM A 307, Grade A with ASTM A 563 hex nuts and, where indicated, flat washers.
- B. Metal Framing Anchors: Structural capacity, type, and size indicated.
 - 1. Use anchors made from hot-dip galvanized steel complying with ASTM A 653/A 653M, G60 coating designation for interior locations where stainless steel is not indicated.
 - 2. Use anchors made from stainless steel complying with ASTM A 666, Type 304 for exterior locations and where indicated.
- C. Sill Sealer: Glass-fiber insulation, 1 inch thick, compressible to 1/32 inch.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.
- B. Securely attach rough carpentry to substrates, complying with the following:
 - 1. CABO NER-272 for power-driven fasteners.
 - 2. Published requirements of metal framing anchor manufacturer.
 - 3. Table 2304.9.1, "Fastening Schedule," in the IBC or Table R602.3(1), "Fastener Schedule for Structural Members," and Table R602.3(2), "Alternate Attachments," in ICC's International Residential Code for One- and Two-Family Dwellings.

END OF SECTION 061000