

SECTION 06100 - ROUGH CARPENTRY

PART 1. GENERAL

1.1 SECTION INCLUDES

- A. Wall and roof framing, beams and joists, including cambering.
- B. Wall, and roof sheathing;
- C. Blocking, bridging, sills, and flashing;
- D. Rough hardware, joist hangers, nails, screws, bolts, washers and other fastening and anchoring devices;
- E. Temporary and permanent bracing ;
- F. Blocking for roof mounted mechanical systems;
- G. Preservative Treatment of wood members where required.

1.2 REFERENCE DOCUMENTS

- A. NFPA - National Design Specification for Stress Grade Lumber and Its Fastening.
- B. PS 1 - Department of Commerce Construction and Industrial Plywood.
- C. PS 20 - Department of Commerce American Softwood Lumber Standard.
- D. AWWA - C1 - All Timber Products - Preservative Treatment by Pressure Process.
- E. AWWA - C15 - Wood for Commercial/Residential Construction Preservative Treatment by Pressure Process.
- F. AWWA - P5 - Water Borne Preservatives.

1.3 QUALITY ASSURANCE

- A. All Wood Construction shall meet Section 17 of the BOCA National Building Code, and Appendix 'A' of the National Forest Products Association National Design Specification for Wood Construction.
- B. Contractor shall assume responsibility to produce finished items of work in first-class condition, free of all defects. Rough Carpentry Work shall be well fitted and securely fastened in its proper location with nails, screws, bolts, or other approved fastening devices.
- C. Tolerances: (Maximum) Framing Members: 1/4 inch from True Position.

- D. In the event of damage or out of tolerance construction, immediately make all repairs and replacements necessary to the approval of the Owner and at no additional cost to the Owner.
- E. Materials shall meet the Federal specifications, commercial standards, and these specifications, unless more restrictive requirements are indicated on the drawings or required by local codes.
- F. Lumber Grading Rules and Wood Species shall comply with the Voluntary Product Standards PS 20. Grading rules of the following associations apply to materials furnished under this section:
 - 1. Southern Pine Inspection Bureau (SPIB).
 - 2. American Wood Preservers Bureau (AWPB).
- G. Grade and trademark is required on each piece of lumber. Identify with grade stamp of an agency certified by the Board of Review of the American Lumber Standards Committee.
- H. Lumber shall be manufactured in accordance with Product Standard PS20.
- I. Lumber shall be sound, thoroughly seasoned, and free from warp that cannot be corrected in process of securing.

1.4 INSPECTION AND TESTING

- A. Special Inspections will not be required for this project.
- B. All structural inspections will be implemented and performed by the owner.

1.5 SUBMITTALS

- A. Pressure Treatment: Submit product certification stating chemicals and process used, net amount of salts retained, and conformance with applicable standards.
- B. Submit Product Certification for all Accessories.

1.6 PRODUCT DELIVERY, STORAGE AND PROTECTION

- A. All materials shall be inspected on receipt at the job site.
- B. Verify conformance to specified grades, species, and treatment at time of delivery
- C. Do not accept faulty or damaged materials.
- D. Store lumber in orderly piles at least 6 inches above ground and protect with a waterproof cover.

PART 2. PRODUCTS

2.1 LUMBER

- A. Structural Lumber: Sizes and grades as indicated on the Structural Drawings.
- B. Lumber shall be free from warp or defects that would impair its strength.
- C. Preserved Pressure Treated Wood: roof blocking and curbing.
- D. Softwood lumber: Only in dry interior areas not in contact with concrete.

2.2 PLYWOOD

- A. Douglas Fir: PS 1:
 - 1. For electric panel boards: Factory grade exterior quality fir face veneer.
 - 2. Structural Grades: see Plans.

2.3 WOOD TREATMENT

- A. Treat all plywood with pressure impregnated fire retardants complying with AWWA Standard C-27, interior Type "A".
- B. Treat all lumber with pressure impregnated fire retardants complying with AWWA Standard C-20 interior Type "A". Manufacturers: Hickson Corporation, Hoover Treated Wood Products or approved equal.
- C. Site Applied Wood Preservative: Treat all cut surfaces according to pressure treated wood manufacturer's requirements for specific application.

2.4 ACCESSORIES

- A. Steel Items: ASTM A-36; Galvanized for exterior and high humidity locations and for use with treated wood.
- B. Bolts, Nuts, and washers: ASTM A-307 steel; galvanized for exterior and high humidity locations and for use with treated wood.
- C. Lag Screws: Federal Specification FF-B-561; galvanized for exterior and high humidity locations and for use with treated wood.
- D. Nails: Use common wire nails complying with Federal Specification FF-N-1 and FF-N-105B; galvanized for exterior and high humidity locations and for use with treated wood.
- E. Joist Hangers: Galvanized Simpson, Teco, or approved equal.

PART 3. EXECUTION

3.1 EXAMINATION

- A. Verify that surfaces to receive rough carpentry materials are prepared to proper grades, elevations, and dimensions.
- B. Report in writing to the Engineer prevailing conditions that will adversely effect satisfactory execution of the work of this section. Do not proceed with work until unsatisfactory conditions have been corrected.
- C. By beginning Work, contractor accepts conditions and assumes responsibility for correcting unsuitable conditions.

3.2 TREATMENT APPLICATION

- A. Apply two coats of same treatment as recommended by the plant(s) supplying the treated lumber, to all sawed or drilled surfaces of treated lumber.

3.3 INSTALLATION

- A. Install miscellaneous blocking, furring, cants, and nailing strips where required as backing for attachment of wall mounted fixture and other items, and as detailed on the drawings. Coordinate to allow proper attachment of work of other sections.
- B. Space miscellaneous framing and furring at 16 inches O.C.
- C. Construct structural framing of full length continuous members without splices.
- D. Install wall and roof framing level and plumb according to plans and attach securely to supporting construction.
- E. Provide temporary bracing until all permanent construction is in place and secured.

3.4 CLEAN UP

- A. Clean or replace any adjacent surfaces of materials damaged by carpentry work.

END OF SECTION