

SECTION 06100  
ROUGH CARPENTRY

## PART 1 GENERAL

## 1.1 SECTION INCLUDES

- A. Grounds, nailers, blocking, furring, sheathing.
- B. Miscellaneous framing and sheathing – framing above top plate of metal stud walls
- C. Telephone and electrical panel boards.
- D. Concealed wood blocking for support of toilet and bath accessories, wall cabinets, and wood trim.
- E. Window/door opening flashing wall seam – membrane

## 1.2 REFERENCES

- A. ALSC - American Lumber Standards Committee: Softwood Lumber Standards.
- B. APA: American Plywood Association.
- C. AWWA (American Wood Preservers Association) C1 - All Timber Products Preservative Treatment by Pressure Process.
- D. NFPA: National Forest Products Association.
- E. SPIB: Southern Pine Inspection Bureau.
- F. WWPA: Western Wood Products Association.
- G. ANSI A117.1: Providing Accessibility and Usability for Physically Handicapped People.
- H. American Disability Act.

## 1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Provide technical data on wood preservative materials, and application instructions.
- C. Manufacturer's Certificate: Certify that Products meet or exceed specified requirements.

## 1.4 QUALITY ASSURANCE

- A. Perform Work in accordance with the following:
  - 1. Lumber Grading Agency: Certified by DOC PS 20.
  - 1. Wood Structural Panel Grading Agency: Certified by EWA - The Engineered Wood Association.
  - 2. Lumber: DOC PS 20.

3. Wood Structural Panels: DOC PS 1 or DOC PS 2.
  - B. Surface Burning Characteristics:
    1. Fire Retardant Treated Materials: Maximum 25/450 flame spread/smoke developed index when tested in accordance with ASTM E84.
  - C. Apply label from agency approved by authority having jurisdiction to identify each preservative treated material.
  - D. Perform Work in accordance with State of South Carolina standards.
  - E. Maintain one copy of each document on site.
- 1.6 DELIVERY, STORAGE, AND HANDLING
- A. Deliver, store, protect, and handle products to site under provisions of Section 01600.

## PART 2 PRODUCTS

### 2.1 LUMBER MATERIALS

- A. Lumber Grading Rules: NFPA, SPIB, and WWPA as applicable.
- B. Non-Structural Light Misc. Framing and Blocking: Southern Yellow Pine species, No. 2 grade, 19 percent maximum moisture content.
- C. Grounds and Blocking: Preservative; Wolman CCA Type C: Arch Wood Protection above ground, Southern Yellow Pine species, No. 2 grade, NIST PS 20, 19 percent maximum moisture content.

### 2.2 SHEATHING MATERIALS

- A. Plywood Roof Sheathing: APA Rated Sheathing, Span Rating 42/20; Exposure Durability 1; unsanded.
- B. Plywood Wall Sheathing: APA Rated Sheathing, Span Rating 32/16; Exposure Durability 1; unsanded.
- C. Plywood Floor Sheathing: APA Rated Sheathing, Span Rating 36/16; Exposure Durability 1, sanded.
- D. Telephone and Electrical Panel Boards: Plywood.

### 2.3 SHEATHING LOCATIONS

- A. Wall Sheathing: 1/2 inch thick, 48 x 96 inch sized sheets, square edges.
- B. Floor Sheathing: 3/4 inch thick, 48 x 96 inch sized sheets, tongue and groove edges.

## 2.4 ACCESSORIES

- A. Nails, Fasteners and Anchors:
  - 1. Nails and Fasteners; hot dipped galvanized or stainless steel see Structural Drawings. Must be compatible with wolmanized lumber (preservative treated).
  - 2. Anchors: Unless otherwise noted the following applies; Toggle bolt type for anchorage to hollow masonry. Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Bolt or ballistic fastener for anchorages to steel.
- B. Joists Hangers and Connectors: Hot-dipped galvanized steel, size to suit framing conditions (U.N.O.).
- C. Glue: APA AFG-01, waterproof of water solvent base, air cure type, cartridge dispensed.
- D. Building Paper: ASTM D226, Type I and Type II asphalt saturated felt, plain untreated cellulose building paper. 15# on walls, the roof will receive a weatherproofing membrane.
- E. Straps and Connectors - By Simpson Strong Tie, galvanized with approved fasteners. Provide as noted on drawings and as required to meet uplift requirements.
- F. **Window and Door Opening Flashing: Perma-A-Barrier Wall Seam Tape by W.R. Grace and Co.. A 30 mil, cold applied self adhering membrane composed of a 2-1/2" mil high density, cross laminated polyethylene film coated on one side with a 27-1/2' mil layer of rubberized asphalt adhesive. To be applied at all window/door openings and at all exterior plywood seams.**

## PART 3 EXECUTION

- 3.1 FRAMING - COORDINATE NAILING PATTERN WITH STRUCTURAL NOTES AND COMPLY WITH THE MOST STRINGENT (for all framing above the top plate of the metal stud walls)
  - A. Set structural 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 alignment until completion of erection and installation of permanent bracing.
  - C. Place horizontal members flat, crown side up.
  - D. Construct framing members full length without splices
  - E. Construct double joist headers at floor and ceiling openings and under wall stud partitions that are parallel to floor joists. Frame rigidly into joists.
  - F. Bridge framing in excess of 8 feet span and/or at mid-span. Fit solid blocking and bridging at ends of members.

- G. Contractor is to confirm any cutting or drilling of joists, rafters, or studs with Architect prior to any installation of Electrical, Mechanical, or Plumbing work.
- H. Contractor shall provide a continuous path of uplift resistance from the roof to the foundation.
- I. Provide solid bridging at all wall and floor framing, at all plywood joints, glue and nail to sheathing.
- J. Draftstop/Firestop all holes in top plates of framed wall.
- K. Coordinate installation of wood blocking for support of all bathroom accessories with Architect prior to installation of Gypsum board.
- L. Building Felt - Provide 15 lb. felt for walls. Place building felt horizontally over wall sheathing weather lap edges a minimum of 2" and lap ends a minimum of 6". Fasten to wall with corrosive resistant nails. Provide an additional lap of felt to extend 12" from each corner at both the inside and outside. Provide a positive resistance to water flow with lapping.
- M. **At all window and door openings install Perm-A-Barrier wall seam tape as indicated on the opening details in accordance with the manufactures recommendation. The tape when install on the exterior casing flange of the window opening shall be set back from the exterior edge of the flange to assure proper sealant compatibility between the window casing and the wood trim. Submit data that illustrates that there compatibility with the sealant and the window casing. (see Section 07900).**
- N. Install all straps, connectors and fasteners as required by manufacturer.

### 3.2 SHEATHING

- A. Wall sheathing: Install with long dimensions or strength axis across supports. Allow 1/8" spacing at panel ends and edges. Fasten in accordance with the Structural Drawings - wall sheathing shall bridge discontinuities in all wall framing; i.e. plywood seam shall not align with seam of joint. Install Perm-A-Barrier wall seam membrane at all exterior plywood seams.
- B. Install telephone and electrical panel boards with plywood sheathing material where required. Over sized the panel by 12 inches on all sides.

### 3.3 TOLERANCES

- A. Framing Members: 1/4 inch from true position, maximum.
- B. Surface Flatness of Floor; 1/4 inch in 10 feet maximum, and 1/2 inch maximum in 30 feet.

END OF SECTION 06100