

SECTION 06100

ROUGH CARPENTRY

1 PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract including General and Supplementary Conditions and Division 1 specification sections apply to Work of this section.

1.2 SECTION INCLUDES

- A. Structural floor, wall, and roof framing; built-up structural members, wall and roof sheathing; subfloor sheathing; preservative treatment; sill gaskets.
- B. Roof curbs and cants; blocking in wall and roof openings; wood furring and grounds; electrical panel backboards, concealed wood blocking.

1.3 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.

2 PART 2 PRODUCTS

2.1 LUMBER MATERIALS

- A. Lumber Grading Rules: SPIB, WWPA, NLGA.
- B. Joist Framing: S-P-F species, No. 2 & better grade, 19 percent maximum moisture content.
- C. Rafter Framing: S-P-F species, No. 2 & better grade, 19 percent maximum moisture content.
- D. Non-structural Light Framing: S-P-F species, Standard grade, 19 percent maximum moisture content.
- E. Sill Plate: Pressure treated Southern Pine.

2.2 SHEATHING MATERIALS

- A. Roof Sheathing: APA Rated Sheathing Structural I, Span Rating 40/20, Exposure 1; unsanded.

- B. Floor Sheathing: AdvanTech, HUBER Engineered Wood Products, Span Rating 24 oc; Exposure 1; unsanded.
- C. Wall Sheathing: APA Rated Sheathing, Span Rating 32/16, Exposure 1; unsanded.
- D. Telephone and Electrical Panel Boards: Plywood, APA C-C Plugged INT.
- E. Underlayment: APA Rated Sheathing, APA C-C Plugged, sanded face.

2.3 SHEATHING AND UNDERLAYMENT LOCATIONS

- A. Roof Sheathing: 19/32 inch thick OSB, 48 x 96 inch sized sheets, square edges.
- B. Floor Sheathing: 23/32 inch thick plywood, 48 x 96 inch sized sheets, tongue and groove edges.
- C. Above Grade Wall Sheathing: 15/32 inch thick OSB, 48 x 96 inch sized sheets, square edges.
- D. Underlayment: 11/32 inch thick plywood, 48 x 96 inch sized sheets, square edges. Provide at all floor locations except where floor finish is scheduled to be carpet with pad or where floor finish is schedule over concrete slab on grade.

2.4 ACCESSORIES

- A. Fasteners: Galvanized steel for exterior, high humidity, and treated wood locations, plain finish elsewhere.
- B. Die Stamped Connectors: 20 gage thick galvanized steel.
- C. Structural Framing Connectors, Joist Hangers: Galvanized steel, sized to suit framing conditions.
- D. Anchors: Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Bolt or ballistic fasteners for anchorages to steel.
- E. Sill Gasket on Top of Foundation Wall: Plate width, closed cell polyethylene foam strip.
- F. Air and Water Infiltration Barrier: Flash spun bonded polyethylene: DuPont Tyvek Housewrap.

2.5 WOOD TREATMENT

- A. Wood Preservative (Pressure Treatment): AWPA Treatment C1 using water borne preservative with 0.25 percent retainage.
- B. Shop preservative treat wood materials indicated on Drawings and in schedule at end of Section, in accordance with manufacturer's instructions.

3 PART 3 EXECUTION

3.1 FRAMING

- A. Erect wood framing members in accordance with applicable code. Place members level and plumb. Place horizontal members crown side up.
- B. Place sill gasket directly on foundation under exterior wall sills.
- C. Place wall studs directly under wood truss, rafter and joist framing members.
- D. Frame double joist headers at floor and ceiling openings. Frame rigidly into joists. Frame double joists under wall studding.
- E. Bridge joists framing in excess of 8 feet span at mid-span members. Fit solid blocking bridging at ends of members.
- F. Curb all roof openings except where curbs are provided. Construct curb members of single pieces per side.

3.2 SHEATHING

- A. Install roof sheathing continuous over supports with 48 inches minimum length. Fasten with 6d deformed shank nails, 6" oc at edges, 12" oc at intermediate supports.
- B. Install floor sheathing continuous over supports with 48 inches minimum length. Glue and fasten with 6d deformed shank nails, 6" oc at edges, 12" oc at intermediate supports.
- C. Secure wall sheathing with ends staggered, over firm bearing. Fasten with 6d deformed shank nails, 6" oc at edges, 12" oc at intermediate supports. Provide 2x blocking at all horizontal joints.
- D. Place air and water infiltration barrier over wall sheathing, tape seal lap joints and end laps, staple in place.
- E. Use galvanized steel sheathing clips between sheets between roof framing members.
- F. Install telephone and electrical panel backboards with plywood sheathing material where required. Size the backboard by 12 inches beyond size of electrical panel.
- G. Install underlayment continuous subfloor with 48 inches minimum length. Fasten with 3d deformed shank nails, 6" oc at edges, 8" oc each way.

3.3 WOOD TREATMENT SCHEDULE

- A. Wood wall and partition sills in contact with concrete.
- B. Wood blocking in contact with roofing materials.
- C. Wood in contact with earth.

...END OF SECTION