SECTION 061000
ROUGH CARPENTRY

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS
A. PART A and DIVISION 1 of PART B are hereby made a part of this SECTION.
B. Examine all conditions as they exist at the project prior to submitting a bid for the work of this SECTION.

1.02 SCOPE OF WORK
A. Furnish and install the following, as shown on the Drawings and specified herein:
   1. Temporary enclosures for new openings in the building, and other temporary items normally performed by the carpentry trade, all as required under SECTION 015000-TEMPORARY FACILITIES AND CONTROLS and SECTION 024100-DEMOLITION.
   2. Wood curbs, wood nailers and other rough lumber, in conjunction with roofing and flashing, including specified preservative treatment therefore.
   3. All interior wood blocking, nailers, furring, strapping, and other rough lumber for the various conditions as indicated on the Drawings, except as otherwise specified herein.
   4. Rough hardware, such as nails, bolts, screws, clips, as required to install rough carpentry work.
   5. Miscellaneous framing and sheathing as indicated on the drawings, except as otherwise specified herein.
   6. Wood blocking for attachment of all wall and ceiling mounted equipment, toilet accessories, railings, and miscellaneous specialties, and all other wall and ceiling mounted items.
B. Install the following as shown on the Drawings and specified under the designated SECTIONS:
   1. Glass fiber batt insulation at top of masonry walls at corrugated roof deck and where structural members penetrate masonry interior walls: SECTION 072100-INSULATION.
1.03 RELATED WORK SPECIFIED ELSEWHERE

A. The following related work is to be performed under the designated SECTIONS:

1. New roof decks: SECTION 053100-METAL DECKING.

2. Wood casework, plastic laminate, wood finish and trim not specified herein, and other items of finish carpentry and millwork: SECTION 062000-FINISH CARPENTRY.

3. Installation of doors and frames, application of finish hardware, and installation of toilet accessories: SECTION 062000-FINISH CARPENTRY.

4. Metal fascias, metal flashings, resilient flashing, roof insulation, membrane roofing system: SECTION 070002-ROOFING AND FLASHING and SECTION 074213-PREFORMED CLADDING.

5. Gypsum wallboard partitions and ceilings and insulation in conjunction with gypsum board, and light gauge framing of gym platform flooring: SECTION 092116-GYPSUM WALLBOARD.

6. Acoustic panels: SECTION 098400 - ACOUSTIC WALL TREATMENT.

7. Wood finish flooring: SECTION 096466 - WOOD AND ATHLETIC FLOORING.

8. Wall mounted chalkboards and tackboards: SECTION 101100-CHALKBOARDS AND TACKBOARDS.

9. Air and vapor barrier: SECTION 071326-AIR AND VAPOR BARRIERS.

1.04 SUBMITTALS

A. Submit the following in accordance with the provisions of SECTION 013300-SUBMITTALS.

1. Pressure treatment of lumber - the treatment plant shall furnish a notarized certificate stating compliance with all pertinent details of this Specification.

1.05 GRADING STANDARDS AND QUALITY

A. All lumber shall:

1. Be new, dressed 4 sides (S4S), clear, and free from warping and other defects. Lumber at specified concealed areas shall be pressure treated with Wolman Salts at concealed areas.

2. Conform to U.S. Department of Commerce Simplified Practice Recommendation R-16 for sizes and use classifications.
3. Have a moisture content not exceeding 19 percent when delivered to the project, except blocking adjacent to the millwork which shall not exceed 5 percent moisture content. The Owner reserves the right to have test performed for moisture content and will pay for such test, except where the specified content is exceeded, in which case the costs of all tests made until materials conform, will paid for by the Contractor.

4. Be in accordance with the grading rules of the lumber manufacturer's associated under whose jurisdiction the species of lumber is produced.

B. Plywood-Conformance to American Plywood Association DFPA grade trademark and Product Standards PS-1.

C. Lumber and plywood shall be identified by the official grade mark, except where grade mark will interfere with the natural finish. In such cases, the material shall be accompanied by a certificate of inspection issued by the lumbar grading and inspection agency.

1.06 STORAGE OF MATERIALS

A. Store all materials in an elevated dry location, protected by water proof coverings. Do not store within the building until masonry, concrete, and other such wet work has been completed and allowed to dry.

1.07 TEMPORARY BRACING

A. Provide and maintain, until such time as permanently built into the structure, all temporary bracing for door frames, sills, and other work requiring bracing and which is not specified as being provided under other SECTIONS of the Specifications.

1.08 PROTECTION AND TEMPORARY ENCLOSURES

A. Do such work as in necessary to cover and protect all finishes and other work from damage during construction. Provide and maintain temporary substantial wood handrails around all openings through floors such as stairways.

B. Refer to SECTION 015000-TEMPORARY FACILITIES AND CONTROLS for specific requirements of temporary enclosures and protection and other temporary items, and perform all such work under this SECTION.
PART 2  PRODUCTS

2.01  INTENT AND WORKMANSHIP

A. It is not the intent of this Specification to hereinafter define the types, sizes or installation methods for each item of work. Methods of installation, joinery, sizes, spacing of nailers and furring strips, and other information pertaining to the lumber, plywood and other items or required work shall be installed in accordance with the details on the Drawings for the specific areas involved.

B. Work that is to be finished or painted shall be free from defects or blemishes on surfaces exposed to view that will show after the finish coat of paint is applied. Any materials which is in any way defective and not up to Specifications for quality and grade for its intended use, or otherwise not in proper condition shall be rejected. Rough lumber shall be dressed four sides, air-dried, well-seasoned, sound and free from splits, cracks, shakes and wanes, loose or unsound knots, and decay.

2.02  LUMBER AND PLYWOOD TREATMENTS

A. All concealed-from-view nailers in conjunction with roofs and curbs and all other wood members noted on the drawings to be "pressure treated" shall be pressure-preserve treated. All other wood nailers, furring, and other concealed lumber in direct contact with masonry or concrete shall be treated by brush-coating. All cut ends of treated lumber shall be brush-coated, after curing, with two heavy coats of Penta, Woodlife, Cuprinol, or equal.

1. Pressure Treatment - Lumber and plywood specified to be "pressure treated" shall be impregnated under pressure with a paintable wood preservative of water borne type, chromated zinc chloride, chetwo monite, celure, Groensalt or Erdalith, Wolman Salt or equal. Minimum retention shall be .30 pounds of preservative per cubic foot of wood. Preservative shall meet APWA P-5 and Federal Standard TT-W-550. Pressure treatment process and results shall meet Federal Specification TT-W-571 and AWPA Conformity Standards. All treated wood shall be redried to specification before installation.

2. Brush Treatment - Penta, Cuprinol, Woodlife, or approved equal, applied in two heavy coats, prior to installation of lumber on all surfaces.

B. All lumber and plywood designated to be fire retardant treated shall be pressure impregnated with FLAME PROOF LHC by Osmose Wood Preserving, Inc. or approved equal to comply with the requirement for a flame spread of 25 or less with no evidence of significant progressive combustion when tested for thirty minutes duration under the Standard Test Method for surface burning characteristics of building materials (ASTM E-84, NFPA 225, UL 723 and AWPA C-20 and C-27). Each piece of wood shall bear the mark of an accredited testing agency such as the Underwriters Laboratories label, indicating compliance with the flame spread classification. After treatment, all lumber shall be kiln dried to an average moisture content of 19 % or less, and all plywood shall be dried to an average moisture content of 15 % or less.
2.03 ROUGH CARPENTRY MATERIALS

A. Wood framing, blocking, and other lumber of actual 1-1/2 inches or greater dimension - Southern Pine No. 2 or better.

B. Furring, nailers, and other lumber of less than 1-1/2 inches in dimension - No. 2 spruce or pine.

C. Interior plywood - C-C EXT-APA, unsanded of thickness indicated on the Drawings.

D. Exterior plywood - C-C EXT-APA, unsanded, of thickness indicated on the Drawings.

E. Bolts and fastenings:
   1. Non-specified nailers and blocking in excess of 7/8 inch thick, 3/8 inch diameter, unless otherwise indicated on the Drawings, galvanized steel anchor bolts or expansion bolts, as applicable, of sufficient length to penetrate masonry or concrete a minimum of six (6) inches. Space bolts not more than 12 inches on center, and stagger the lines of bolts as far as practicable.
   2. Bolts for lumber and furring 7/8 inch actual thickness and less - Galvanized steel bolts at least 1/4 inch diameter, of the most appropriate types and lengths for the particular application, and provided with all required galvanized washers and nuts.
   3. All flush framed connections shall have beam or joist hangers.

F. Wall and roof sheathing (veneered plywood).
   1. APA rated sheathing as noted on the drawings.
   2. Fasteners - refer to structural drawings for fastening requirements.

G. Subflooring: Installed at light gauge metal stud framed platform areas, 3/4 inches thick tongue and grooved, fire retardant treated.
PART 3 EXECUTION

3.01 GENERAL

A. Framing, nailers, blocking and furring - Refer to the Drawings for the various conditions. Install items with specified fastenings, shimming as the work progresses, to assure smooth and level surfaces for proper receipt of materials to be attached thereto. Countersink all heads of fasteners in all locations where another finish material will be directly applied to furring, nailers and blocking. Furnish and install all beam and joist hangers and similar accessories, as shown on the Drawings and as required for a complete installation.

B. All construction, including framing and fire stopping shall be performed in accordance with the requirements of the Commonwealth of Massachusetts State Building Code, except where the work indicated on the Drawings exceeds the requirements of the Code. Where the Drawings indicate work in excess of minimum Code requirements, the work shall be done according to the Drawings.

C. Brush treat all field cuts of treated wood with preservative.

D. Be thoroughly familiar with all sections specifying wall and ceiling mounted items. Install wood blocking within wall and ceiling construction for attachment of all wall and ceiling mounted items.

3.02 ROOF PERIMETER NAILERS

A. Roof perimeter nailers shall have 3/8" space between ends. Offset blocking layers 12 inches and weave blocking at corners. Refer to Drawings for fastening and attachment details.

B. Coordinate configuration and fastening of roof perimeter nailers and cants with roofing subcontractor. Install all blocking required by job conditions.

END OF SECTION