#### SECTION 06 10 53.01

**MISCELLANEOUS ROUGH CARPENTRY - ROOFING**

#### BASED ON DFD MASTER SPECIFICATION DATED 03/12/15

**Note to Specifier:**

**Read the first paragraph after this statement, before proceeding.**

**Obtain and read the most current version of the DOA-DFD “Minimum Design Guidelines for Roofing and Waterproofing Systems”. Note the revision date at the title.**

This section has been written to cover most (but not all) situations that you will encounter. Depending on the requirements of your specific project, you may have to add materials, delete items, or modify what is currently written. The Division of Facilities Development expects changes and comments from you.

Recent changes in the specification are associated with the date by the title, identified by the ‘color green’. DO NOT DELETE THE DATE. Obtain the most current specification section for each project. Pay special attention to all ’Notes to Specifier’ identified in color of ‘dark red’ in italic typeface. Roof system options are also identified within [brackets] by the ‘color blue’. This language may be used or deleted as required by the scope of project. This section should be reviewed carefully as it has language for both new construction and re-roofing.

DFD Standard Roofing Details for various roof systems including HVAC and Electrical runs, curbs and support, louver, door and windows and State of Wisconsin Guarantee Forms are located on the DFD Website with the Master Roofing Specification.

SCOPE

The work under this section includes all labor, material, equipment and related services necessary to install rough framing and blocking [vented nail base insulation panel] [and all roof related insulation.]

PART 1 - GENERAL

 Scope

References

 Quality Assurance

PART 2 - PRODUCTS

 Materials

PART 3 - EXECUTION

 Installation

part 1 - GENERAL

In the event that the Contractor wishes to make improvements in materials and/or techniques, or is required to make improvements by his material manufacturer in order to obtain guarantees, he shall make written request stating in full the nature of the proposed changes and stating that the changes, if approved, will be accomplished at no additional cost to contract.

**references**

ALSC PS 20 - American Softwood Lumber Standard.

APA - American Plywood Association.

**QUALITY ASSURANCE**

Any existing wood decking, framing members, fascia and/or other roof related trim containing more than 19% moisture or showing evidence of rotting, shall be defined as "bad" and removed and replaced with new material. Notify the DFD representative concerning the “bad” areas. Wood replacement costs will be negotiated after bidding and are not to be included in Contractor’s bid, unless noted or specified otherwise.

All lumber used on this project shall be graded by an agency certified by ALSC.

Pressure Treated Plywood and Lumber: These products shall not be specified or provided for use in roofing projects as a substrate material intended to receive mechanical fasteners used to secure metal roof panels, panel clips, metal coping, roof penetration curbs cap and Counterflashing, all other metal flashing, roofing insulation and membrane installations that are a part of the roof system.

The manufacture shall approve of all mechanical fasteners used to secure all roof system components.

part 2 – PRODUCTS

**MATERIALS**

Softwood Lumber: ALSC PS20, grade No. 2 or better; 19 percent maximum moisture content, size as detailed or required.

Sheathing: APA certified; CDX fir plywood [OSB (oriented strand board)]. Thickness [1/2"] [5/8"] [3/4"] as detailed or required.

[Vented Nail Base Insulation Panel:

3” minimum Polyisocyanurate insulation, total composition thickness 4-1/2”, R-20.

Manufacturer’s; Atlas (Cross Vent), Cornell Corporation (ThermiCal 1), Hunter (Cool-Vent) or equal.]

Fasteners: Sizes and lengths to suit conditions.

Wood to Wood: Double hot-dipped, galvanized nails.

Wood to Concrete or Masonry: Zinc alloy expansion shield or case hardened steel lag.

Wood to Metal: #10 stainless steel sheet metal screws flat heads.

Fiberglass batted insulation: Thickness as required per drawing details.

Other products, not specifically described, but required for a complete and proper installation of the work in this section, shall be selected by the Contractor subject to approval by the DFD Project Manager

part 3 - EXECUTION

**INSTALLATION**

Refer to the detail drawings included with these specifications. Install material as follows for new or corrective work, where required.

[Inspect existing wood deck, remove and replace deteriorated deck with like lumber and thickness material. This work will be accomplished as stated under QUALITY ASSURANCE in this section. Agency Representative shall verify deterioration. Contractor shall take digital photos of all areas and send to Owner as they occur.]

[Shim, install [provide] and securely fasten all [new and existing] wood nailers and blocking as detailed or required. Use longest lengths practical to minimize joints; stagger all joints a minimum of 8". Unless noted otherwise all materials shall be fastened using two rows of fasteners @ 24" O.C. staggered.]

[Fasten new sheathing to existing structural components with appropriate fasteners @ 8" O.C. at the edge and 16” O.C. in the field of the sheathing. Gap sheathing 1/16" on all edges prior to fastening.]

[Fasten new vented nail base insulation panel to existing structural components with appropriate fasteners, and as per manufacture’s instructions.]

Curb all roof openings at penetrations through the roof deck (except roof drains, plumbing vents and penetrations/projections to be flashed using pitch pans).

The Contractor shall raise all existing curb and pipe penetrations to be a minimum height above the roof system of 8”.

\*\*\* END OF SECTION \*\*\*