

## **PART ONE - GENERAL**

### **DESCRIPTION**

**SECTION INCLUDES:** Perform all work required to complete the entire rough carpentry work including but not limited to:

1. WOOD TRIM, nailers, plates, blocking, grounds, backer boards, concealed blocking.
2. ACCESSORIES, fasteners, preservative treatment, fire retardant treatment, attachments.
3. FURNISH ANCHOR BOLTS, as required by work of this section, to other section as required for setting.

### **RELATED SECTIONS**

1. GENERAL CONDITIONS and Division 1.
2. FINISH CARPENTRY: Section 06 200
3. GREENHOUSES: Section 13 123

### **REFERENCES**

AMERICAN LUMBER STANDARD COMMITTEE (ALSC)

ENGINEERING WOOD ASSOCIATION (APA) – Engineered Wood Construction Guide

AMERICAN WOOD COUNCIL (AWC) – Details for Conventional Wood Frame Construction

AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) – Book of Standards, Current Edition

ASTM INTERNATIONAL –

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY, Department of Commerce (NIST) – PS 1 Structural Plywood, current Edition. – PS20 American Softwood Lumber Standard, Current Edition (ALSC)

SOUTHERN FOREST PRODUCTS ASSOCIATION (SFWA)

SOUTHERN PINE INSPECTION BUREAU (SPIB) – Standard Grading Rules for Southern Pine Lumber, Current Edition

WEST COAST LUMBER INSPECTION BUREAU (WCLB) – Standard Grading Rules, No. 17, current Edition

WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) – Western Lumber Grading Rules, current Edition

### **SUBMITTALS**

**SAMPLES:** Submit upon request.

**PRODUCT DATA:** Submit data on structural grade lumber and other products upon request.

**CERTIFICATES:** Submit certificates of wood preservative and fire-retardant treatments.

### **QUALITY ASSURANCE**

**INSTALLER QUALIFICATIONS:** The Rough Carpentry work shall be performed by an established firm employing skilled, experienced workers under competent supervision.

**MATERIAL QUALITY:** Indicate under whose rules the lumber was produced.

1. MOISTURE CONTENT: Maximum 19%
2. IDENTIFICATION: Grade and trade mark required on each piece of lumber (or bundle for bundled stuck).

### **DELIVERY, STORAGE AND HANDLING**

**PILE AND STORE** all lumber off the ground to assure drainage and ventilation, and cover it to provide complete protection from the weather. After erection, provide all necessary covering and protection for all work under this Section. Replace without additional cost to the Owner all work of this Section which is damaged within the course of construction.

1. MOISTURE content shall not exceed 19% for dimension lumber, air or kiln dried.

DELIVERY OF PRODUCTS FURNISHED ONLY: Deliver anchor bolts furnished but not installed under this Section, to the Project Site in time to be installed before the start of concrete or masonry construction requiring such anchors. At the time of delivery, furnish all necessary information as to location and size of anchors. Identify and mark anchor bolts.

### **PROJECT CONDITIONS**

EXISTING CONDITIONS: Inspect preceding work for improper conditions which may prevent the proper installation of the Work of this Section. Execution of the Work of this Section over such preceding work constitutes acceptance of such.

COORDINATION: Coordinate and schedule this work with the work of other Sections. Review the approved Shop Drawings of the various Sections attaching work to blocking, nailers, etc., to verify their proper location.

CONSTRUCTION AIDS: Provide scaffolding as required for the installation of the work of this Section, as governed by Section 01 520.

### **PART TWO - PRODUCT**

#### **FRAMING LUMBER**

EXTERIOR SILL PLATES: Utility grade, Southern Pine.

1. PRESERVATIVE TREATMENT: 0.4 cca

EXTERIOR NAILERS, BLOCKING: No. 2 Douglas Fir, or equal grade southern Pine. or No. 1 Douglas Fir, or equal grade southern Pine, preservative treated.

#### **ACCESSORIES**

FASTENERS: Galvanized steel for exterior, high humidity, and treated wood locations, plain finish elsewhere.

1. SIZE: Provide in sufficient length and type to suit each particular application.

#### **WOOD TREATMENT**

WOOD PRESERVATIVE PRESSURE TREATMENT: AWPA Treatment C1 using water borne preservative with 0.4 percent retainage.

1. LUMBER: Conform to AWPB Standards C2

2. PLYWOOD: Conform to AWPB Standard C9

3. TREAT LUMBER in contact with concrete or masonry at grade, or potentially in contact with moisture.

4. FIRE TREATMENT: AWPA C20 lumber and C27 plywood; Type A, with water solvable dye.

### **PART THREE - EXECUTION**

#### **GENERAL**

CONSTRUCT in accordance with recognized carpentry standards to provide for the complete support or enclosure of materials or equipment as required.

1. USE ONLY sound thoroughly seasoned, well manufactured materials of longest practical lengths and sizes to minimize jointing.

2. SET TO REQUIRED LEVELS AND LINES plumb and true and cut and fitted.

FASTENINGS: Install sufficient fastenings of a type and size appropriate to the materials jointed and to the anchorage conditions to assure rigidity and permanence. Drive nails perpendicular to wood in lieu of toe nailing, where feasible.

1. ALL NAILING shall be in strict accordance with published Standards. All siding shall be secured with the types and spacing of nails as recommended to insure that the finished product will not bow, sag, or warp.

2. METHOD: With screws to metal framing; nails to wood framing.

LAY OUT AND FABRICATE all items of rough carpentry. Wood framing shall be accurately set to the required lines and levels rigidly secured in place.

1. CUT AND FIT accurately, avoid shims.
2. FRAMING NOT DETAILED: 2 x 4 or larger as required for supporting members. Spaced 16" at non-bearing walls.

**WOOD GROUND, NAILERS, BLOCKING AND SLEEPERS**

PROVIDE WHEREVER SHOWN AND WHERE REQUIRED for screeding or attachment of other work. Form to shapes as shown and cut as required for true line and level of work to be attached. Coordinate location with other work involved.

ATTACH TO SUBSTRATES as required to support applied loading. Countersink bolts and nuts flush with surfaces, unless otherwise indicated. Build into masonry during installation of masonry work.

PROVIDE PERMANENT GROUNDS of dressed, preservative treated, key-bevelled lumber not less than 1-1/2" wide and of thickness required to bring face of ground to exact thickness of finish material involved. Remove temporary ground when no longer required.

**ADJUSTMENT AND CLEANING**

MAINTAIN the area in a clean condition, removing all debris resulting from the work of this section. Remove all stains and repair all damage to exposed work installed herein upon completion of the installation, as well as adjacent materials damaged by the work of this Section.

END OF SECTION

## **PART ONE - GENERAL**

### **DESCRIPTION**

#### **SECTION INCLUDES**

1. HARDWARE INSTALLATION and attachment accessories.
2. DOOR TRIM, etc. Installation in existing frame.
3. REFER to schedule at end of this Section.

**PRODUCTS INSTALLED UNDER THIS SECTION:** Furnished under another Section.

1. DOOR HARDWARE – Section 08 710.

#### **RELATED SECTIONS**

1. SECTION 08 212 – Stile and Rail Doors
2. SECTION 08 710 – Door Hardware

**REFERENCES** - Comply with the following

1. ANSI/HPHA HP - American Standard for Hardwood and Decorative Plywood.
2. AWI - Quality Standards.
3. FS MM-L-736 - Lumber; Hardwood.
4. FS MMM-A-130 - Adhesive, Contact.
5. PS 20 - American Softwood Standard

### **DELIVERY, STORAGE, AND HANDLING**

**STORE MATERIALS** in ventilated, interior locations under constant minimum temperatures of 60 degrees F and maximum relative humidity of 55 percent.

### **WARRANTY**

**2 YEAR WARRANTY:** for chipping, delamination of laminates.

## **PART TWO - PRODUCTS**

**HARDWOOD LUMBER:** FS-MM-L-736; Custom grade in accordance with AWI; maximum moisture content of 6 percent.

1. CUT: Plain sawn grain.
2. SPECIES: White Oak
3. QUALITY: Capable of transparent finish.

**SOFTWOOD LUMBER:** PS20 Custom Grade per AWI, maximum moisture content of 6 percent.

1. CONCEALED FRAMING: #2 and better Ponderosa Pine or Idaho Pine

#### **EXTERIOR DOOR, CASING & TRIM**

1. QUALITY STANDARD: Comply with AWI Section 900 B, capable of transparent finish.
2. SPECIES: White Oak
3. CASING PROFILE, SIZE: Match existing.

### **ADHESIVE**

**CONTACT ADHESIVES:** FS-MMM-A-130; solvent release type, compatible with veneer. Use Type 1 waterproof for exterior and where conditions require.

**UREA FORMALDEHYDE NOT PERMITTED**

### **ACCESSORIES**

**NAILS:** Size and type to suit application, coated finish.

**BOLTS, NUTS,** Washers, Blind Fasteners, Lags, and Screws: Size and type to suit application; galvanized finish.

**LUMBER FOR SHIMMING,** Blocking Softwood lumber.

**PRIMER:** Alkyd primer sealer type.

**WOOD FILLER:** Oil base, tinted to match surface finish color.

## **FABRICATION**

FABRICATE TO AWI Custom standards.

## **SHOP FINISHING**

SHOP FINISH WORK in accordance with AWI 'Factory Finishing' Section 1500.

TRANSPARENT FINISH: AWI System Number 3; Custom.

## **PART THREE - EXECUTION**

### **EXAMINATION**

VERIFY THAT SUBSTRATES are ready to receive work and field measurements are as shown on shop drawings.

BEGINNING OF INSTALLATION means acceptance of substrate.

### **PREPARATION**

BEFORE INSTALLATION, prime paint surfaces of items or assemblies to be in contact with cementitious materials.

### **INSTALLATION**

INSTALL WORK IN ACCORDANCE WITH AWI quality standard specified.

SET AND SECURE MATERIALS and components in place, plumb and level, tune to line and securely anchored.

1. NAILS AND SCREWS shall be neatly set and all wood raised in the driving of nails and screws removed.

INSTALL TRIM with nails at 8 inch on center with adhesive. Recess head into wood.

### **TRIM INSTALLATION**

ANCHOR WOODWORK to anchors or blocking built in or directly attached to substrates. Secure to grounds, stripping and blocking with countersunk, concealed fasteners and blind nailing as required for a complete installation. Except where prefinished matching fastener heads are required, use fine finishing nails for exposed nailing, countersunk and filled flush with woodwork and matching final finish.

STANDING AND RUNNING TRIM AND RAILS: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to the greatest extent possible. Stagger joints in adjacent and related members. Cope at returns and miter at corners.

1. SAND ROUGHNESS or unevenness in preparation for final finishing.

### **TOLERANCES**

MAXIMUM VARIATION FROM TRUE POSITION: 1/16 inch.

MAXIMUM OFFSET from True Alignment with Abutting Materials: 1/32 inch.

### **PROTECTION**

PROTECT FINISHED installation.

### **SCHEDULE**

#### EXTERIOR DOORS

1. DOOR CASING TRIM: Clear White Oak, prepare for transparent finish. Unless otherwise required to match existing conditions. MATCH EXISTING historical frame and trim, in size, profile, species, etc.

END OF SECTION