1. This information provides guidelines for rough carpentry. Temporary facilities and controls are covered in other parts of these standards or are available from the Facilities Management (FM) project representative. Designer shall be familiar with current lumber and plywood grade designations.

2. FM project representative, Public Safety Office, and Environmental Health and Safety Office shall approve selection of materials, means and methods. Unless otherwise approved, design intent requires means and methods that provide minimal disruption to adjacent building activities and operations.

3. When working on or adjacent to existing buildings, match existing materials, profiles, sizes, and color as closely as possible.

4. Rough Lumber: (Provide S4S unless otherwise noted.)
   a. Studs: fir or SPF “Stud” grade
   b. Light framing: hem-fir, “standard & better”
   c. University Carpentry Shop prefers steel studs for interior framing
   d. For small public works projects, steel stud framing can be found under “Gypsum Board Assemblies”.
   e. Structural joists & rafters over 6” deep: fir “#2 & better”.
   f. Use Douglas fir for strength or resistance to weather if required. Avoid any exposure of hemlock to weather.

5. Plywood:
   a. CDX unless higher grade is specified. “Comply” is more weather resistant than ordinary plywood and is preferable for subfloors.

6. Pressure treated wood:
   a. Water-borne alkaline copper solution-ACQ
   b. For all wood in contact with concrete or earth
   c. Wood in contact with earth: use extra-heavy treatment (0.6)

7. Pressure treated plywood:
   a. CDX All Weather Wood Foundation (AWWF)

8. Alternative products:
   a. Western red cedar
   b. Plastic composites

9. Fire-retardant treated wood shall be used where required by the building code. The majority of Western Washington University buildings require fire-retardant treated wood to achieve fire rating. Specify treatment which does not require brush treatment of field-cut ends to maintain fire-hazard classification.

10. Framing anchors and connectors:
    a. Simpson, or as accepted
    b. All hardware exposed to weather shall be hot-dipped galvanized with a G185 coating (1.85 oz./sf)
    c. Hardware in contact with pressure treated wood – fasteners and connectors – Stainless Steel 304 or 316
11. Expansion anchors:
   a. Hilti “drop-in,” “sleeve anchors”
   b. “Kwik-bolt anchors,” “nail-ins”
   c. Lead anchors prohibited

End