ARCH 614. Study Guide for Quiz 7

This guide is not providing “answers” for the conceptual questions. It is a list of topical concepts and their application you should be familiar with. It is an aid to help prepare for the quiz.

Covers material of Lectures 14 & 15

☐ Lumber vs. engineered timber characteristics
☐ Various strengths (directionality, wood type, etc.)
☐ Creep
☐ Design methodologies and obtaining allowed stresses (duration, multiple member use....)
☐ Column stability factor, F_{CE} & l/d
☐ Nominal dimensions
☐ Design vs. analysis
☐ Effective length, K & bracing
☐ Built-up and spaced columns
☐ Beam-Columns
☐ Combined bending and compression – interaction
☐ P-Δ effect
☐ Eccentricity
☐ Connection stresses
☐ Design vs. analysis
☐ Bolt designations
☐ Effective net area
☐ Connection types
☐ Nail load capacity charts
☐ Bolt capacity charts and relation to wood strengths
☐ Single vs. double shear