University of Oregon – Oregon Bach Festival

B10 SUPERSTRUCTURE

The administrative building is a two story, L shaped building that will be framed primarily of wood construction. The roof structure will be framed of open web trusses and engineered I-joists. The main bearing lines will consist of either wood stud walls, or post and beams. The beams will typically glulam with steel wide flanges or tubes in select conditions. The 2nd floor will be framed from engineered I-joists, structural sheathing, and a gypcrete or concrete topping. The lateral force resisting system will be framed from plywood shear walls. The first floor will be constructed with a conventional 4 inch slab on grade. The footings will be conventional spread footings at columns and strip footings with stem walls at the perimeter.

The theater building is a 1 story structure measuring approximately 40 feet by 53 feet. The exterior of the structure will be constructed of concrete masonry block that measures 10 inches nominally in thickness. The roof structure will consist of prefacbricated steel open web joists with a 3 inch metal deck. Skylights are proposed on two sides of the perimeter of the roof. The first floor of the theater is a 4 inch slab on grade. The concrete masonry will be supported by strip footings.

See Madden and Baughman Engineering's drawings S101, S102, and S103 that show the respective foundation and framing plans