PROJECT DESCRIPTION

This new 290,000 square-foot, five-level building features 27 classrooms, 401 administrative offices, theatre, a 265-stall, three-level underground parking structure and a landscaped courtyard. The building required the usage of structural lightweight concrete on metal deck and composite steel beams. The lateral forces are resisted by steel moment frames, steel concentric braced frames or concrete shear walls.

A few reasons for choosing structural lightweight concrete include the following:

1. Lighter vertical dead load.
2. Reduced seismic loads resisted by the frames and shear walls.
3. Greater fire rating with thinner slabs.

PROJECT REQUIREMENTS

- 4000 psi Structural Lightweight Concrete
- 110 lbs. cu. ft. +/- 3 lbs @ 28 days
- 6% +/- 1.5 Air Entrainment
- 2 Hr. UL Fire Rating