

**Michael Sandretto**

**Structural Option**

**Thesis Proposal**

**Faculty Advisor: Dr. Memari**



**American Eagle Outfitters Quantum II Corporate Headquarters**

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**Breadth Topics**

**Topic 1:** Technical Assignment #2 investigated options in various alternative floor systems. The most promising alternative floor system, hollow core concrete planks, will be further researched and considered.

**Topic 2:** The major focus of breadth work will be a cost analysis comparing the existing lateral system to the new redesign. Once the most economical system is identified a detailed construction schedule will be outlined.