

A. Alfred Taubman Health Sciences Library Renovation



Project Description

A renovation of approximately 137,000 gross square feet of space to create a smaller library collection, increased health sciences instructional space including a clinical skills and simulation suite, and spaces for computing, study, and faculty and student services. A 6,000-gross-square-foot addition will be constructed to improve vertical circulation

Energy Efficiency Measures

- The building's design and systems include a number of energy efficient features that allow for an estimated energy savings of 30% when compared with a code energy compliant building as defined in ASHRAE 90.1-2007 Appendix G
- High Performing Envelope including glazing with low-e coatings to reduce thermal losses in the winter and radiation gain in the summer
- Exterior sun-shading devices on the south facing elevation to minimize solar heat gain on sunny days
- Enthalpy Wheel allows return air to condition outside air which reduces heating/cooling load in the air handling unit
- Chilled Beams use chilled water as a cooling medium which reduces ductwork, shafts, and air handling unit size
- HVAC controls prevent simultaneous heating and cooling and occupancy sensors control temperature
- Efficient light fixtures and occupancy sensors reduce energy use

Other Sustainability Features

- This project is LEED® certified to the Gold level and achieved 67 points under the LEED for New Construction v2009 rating system.
- Project site located near public and U-M bus routes to encourage use of public transit
- Close proximity to basic services such as banks and restaurants to encourage building occupants to walk instead of drive
- Landscaping is made of native and adaptive plantings and does not require permanent irrigation
- Designed for a 38% water consumption savings beyond Michigan Plumbing Code; savings will be obtained via use of dual flush water closets, 1/8 gallon flush urinals, and automatic sensor operated faucets
- Building reuse of approximately 90% of existing walls, floors and roof
- Over 25% of materials used contain recycled content
- Over 35% of materials used were extracted and manufactured within 500 miles of the project site
- Low-VOC paints, flooring, composite wood, adhesives and sealants
- 88% of demolition and construction waste diverted from landfill

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Project Data

- Budget: \$55 M
- Schedule: Completion Scheduled for Fall 2015
- Square Feet: 137,000 gross sq. ft. renovation
6,000 gross sq. ft. addition

Substantially Complete: June 2015

- Project Status: Substantial Completion
- Design Complete: 100%
- Construction Complete: 100%