

Earl V. Moore Building Renovation and Brehm Pavilion



Project Description

The project includes new construction of approximately 34,000 gross square feet of space including shelled space, and a renovation of approximately 28,000 gross square feet within the existing building. The School of Music, Theatre & Dance has since received additional gifts for the project and would like to increase scope. Approximately 4,000 net square feet of shelled space will be finished to create a high-performance music laboratory for both research and for teaching about the uses of technology in creating, recording, and disseminating music. An additional renovation of space will create a student commons with meeting and study space, and the revised project will also include additional furniture and equipment.

Energy Efficiency Measures

- The building's design and systems include a number of energy efficient features that allow for an estimated 40% energy savings compared with an energy code compliant building as defined in ASHRAE 90.1-2007 - Appendix G
- Above code-minimum insulation for exterior walls and roofs to improve the building envelope performance
- Above code-minimum thermal properties for windows to reduce thermal losses in the winter and radiation gain in the summer
- Energy Efficient HVAC system to reduce energy usage
- Ventilation of mechanical room with relief air installed to reduce energy usage
- Displacement ventilation in the Rehearsal Hall installed to reduce energy usage
- Reduction of lighting power density to reduce energy usage
- Occupancy sensors for lighting control to reduce energy usage
- Increased inspection of exterior wall insulation and fenestration performed to ensure integrity and performance of the building envelope
- Infrared scans of building envelope performed during construction to verify the integrity and performance of the building envelope

Other Sustainability Features

- This project is LEED® certified to the Gold level and achieved 63 points under the LEED for New Construction v2009 rating system
- Minimized project disturbance area to protect adjacent woodland
- Chipper byproduct from site clearing operations used for erosion control during construction
- Native/adaptive vegetation and a centrally controlled irrigation management system designed to reduce potable water consumption by 73%
- A 39% water consumption savings beyond Michigan Plumbing Code; savings obtained through the use of low flow bathroom fixtures
- Low-VOC paints, coatings, sealants, adhesives, flooring and composite materials
- 10% of materials used contain recycled content
- 15% of materials used were extracted and manufactured within 500 miles of the project site
- 50% of demolition and construction waste diverted from landfill

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Project Data

- Budget: \$29.5 M
- Schedule: Completion Scheduled for Fall 2015
- Square Feet: 28,000 gross sq. ft. renovation
34,000 gross sq. ft. addition

Substantially Complete: August 2015

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