

UMHHC Children's and Women's Hospital Replacement Project



Project Description

The C. S. Mott Children's and Von Voigtlander Women's Hospitals Replacement Project will provide a new, state-of-the-art inpatient and outpatient facility for children and women. An approximately 1,100,000 gross square foot facility is planned that consists of a clinic building of 9 floors and an inpatient building of 12 floors plus a helipad on the easternmost roof. The building will include inpatient space, clinic and office space to support children's and women's programs. Since demand for patient care services has increased beyond expectations, the project will also include the completion of the majority of the shelled space within the original program (approximately 151,000 square feet) including 84 additional patient rooms, two magnetic resonance imaging (MRI) units, one operating room (OR), and an inter-operative MRI/OR suite along with additional clinic and office space.

The building will be connected to the existing Taubman Health Center via a link as well as the Simpson Parking Structure. Site Improvements include utility reconfigurations, roadway reconfigurations, landscaping, steam tunnel and ductbank extensions, and stormwater detention.

Energy Efficiency Measures

- Designed to ASHRAE Standard 90.1-2004 including building envelope and glazing efficiencies
- Energy modeling was performed to determine optimum system selections with maximum efficiencies
- Energy efficient equipment is provided such as chillers, pumps and fans
- Reduction of lighting power densities through the use of energy efficient compact fluorescent and LED fixtures
- Reduction of lighting power usage through occupancy sensors throughout the building and daylight harvesting controls for the main lobbies and clinic corridors
- Sophisticated Building Management System controls to optimize fan speeds and system performance

Other Sustainability Features

- This project is LEED® Silver certified and achieved 36 points under the LEED for New Construction v2.2 rating system.
- Vegetative roof reduces storm water run-off, reduce heat island effect, and create a natural habitat
- Storm water infrastructure (collection) and management minimizes run-off and avoid impact to neighboring Nichols Arboretum
- Landscape Plan uses native plants and plant varieties acclimated to the Ann Arbor climate zone
- Landscaping irrigated by 100% non-potable water collected in the underground storage basins
- Use of Best Management Practices and Erosion and Sedimentation control measures during construction to minimize and prevent pollution, soil erosion, waterway sedimentation, and airborne dust generation
- Recycled approximately 75% of construction waste
- Building materials utilized a high amount of recycled content
- Very low amount of volatile organic compounds (VOC) utilized in building components

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Project Data

- Budget: \$539 M
- Schedule: Completion Scheduled for Fall 2011
- Square Feet: 1,100,000 gross sq. ft.

Substantially Complete: June 2011

- Project Status: Substantial Completion
- Design Complete: 100%
- Construction Complete: 98%