

The Ohio State University Ross-Wiseman MRI Assessment

Columbus, OH

Project Completion: 2018
Sizes: 4,785 SF
Est. Construction Cost: \$1,558,630
Tri-Tech Services: PME Engineering

Project Description

The Ohio State University Medical Center Richard M. Ross Heart Hospital MRI Assessment is intended to identify capacity, space, and code compliance for a new 1.5T MRI Scanner, 3.0T MRI Scanner, and an existing CT Scanner to be located on the first floor of the imaging department. In order for the new equipment to be added, existing space layout and equipment would need to be revised and infrastructure capabilities analyzed to ensure the new equipment is able to be supported in the selected location.

Tri-Tech performed numerous site visits and attended multiple user group meetings to gain a complete understanding of the current issues and potential effects of future programming changes due to the new layout of the first floor imaging department. The assessment analyzed impact to patient flow and care, current FGI recommendations, along with structural support for new equipment, and infrastructure capabilities of existing mechanical, plumbing, and electrical systems.

Following completion of the analysis, the final recommendation included a design concept which was presented to and approved by representatives from the Medical Center. This final plan creates an MRI suite with a shared central control room and slightly more private access for the staff.

Structural analysis validated that the selected location was adequate to support the new equipment. Mechanical system analysis provided recommendations to utilize the existing air handling system, while installing two new chillers for the MRI equipment. Electrical system analysis identified power sources for new equipment feeders, along with recommendations for local branch circuitry.

The completed report included layout sketches and an opinion of probable construction cost for the new project.



Note: Sketches show existing layout and area of work impacted by the assessment and the potential equipment installation.