



HEALTH CARE RADIOLOGY AND IMAGING RENOVATION

PROJECT LOCATION: UF Health OSMI 4th Floor – Gainesville, Florida

EXPERIENCE OF: Mitchell Gulledge Engineering, Inc.

ROLE IN PROJECT: MEPF Design Sub-Consultant

CONSTRUCTION COST

\$1,100,000

COMPLETION DATE

August 2020

PROJECT STAFFING

Project Manager:

Andrew Mitchell, PE, CxA

Mechanical Lead:

Craig Gulledge, PE, CxA

Mechanical Designer:

Evelyn Dicks, PE, CxA

Plumbing/Fire Protection Lead:

Andrew Mitchell, PE, CxA

Electrical Lead:

Peter Rizov, PE



PROJECT OWNER

University of Florida

Mark Humbert

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BUILDER

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PROJECT ARCHITECT

Walker Architects

Jason O'Brian

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PROJECT ENGINEER

Mitchell Gulledge Engineering, Inc.

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PROJECT SUMMARY:

This project for the University of Florida consisted of renovating the north west corner of the fourth floor of UF Health Orthopaedics and Sports Medicine Institute (OSMI) located in Gainesville, Florida. This 1,800 SF renovation project included three imaging exam rooms, equipment control room, casting room, dictation room, and offices. The HVAC mechanical scope of work consisted of connecting to the building's existing HVAC system and providing new HHW VAV boxes for individual thermal zone control. The plumbing scope included domestic water and sanitary waste/vent provisions for the new exam room sinks. The fire protection scope included new distribution piping and sprinkler heads to serve the renovation area. Additionally, new power, lighting, security access controls, telecommunications rough-ins, and fire alarm were added to serve the renovation area. As the project's MEPF sub-consultant and engineer of record, Mitchell Gulledge Engineering provided pre-design, design, and construction administration services including attendance at weekly OAC meeting, site inspections, submittal reviews, and as-built documentation.

The fourth floor radiology renovation at UF Health Orthopaedics and Sports Medicine Institute demonstrates Mitchell Gulledge Engineering's ability to design interior renovation projects for specialized health care operations. The radiology and imaging equipment utilized in this project required thorough coordination of the utility requirements. This effort included extensive review of the equipment specifications, an evaluation of the existing utilities, and calculations for all new utility requirements. Mitchell Gulledge Engineering specified an HVAC pre-test on the existing HVAC systems to ensure the existing AHU could provide the additional HVAC cooling required for the imaging equipment. Additionally, an extensive field survey of the existing mechanical, plumbing, fire protection, and electrical was performed before design to identify the system impacts associated with the proposed renovation efforts. Our team closely collaborated with the project's architect using Autodesk's BIM360 platform to ensure a fully coordinated design effort to mitigate any issues during construction. Mitchell Gulledge Engineering coordinated with the existing facility infrastructure and building constraints to ensure the renovations efforts would integrate seamlessly with no adverse effects on the project's budget, project's schedule, or on existing facility maintenance protocols. This level of early and detailed coordination effort facilitated a smoother design process and helped to alleviate any unforeseen site conditions to help ensure the project's tight construction schedule was maintained.

