

AGC ACE AWARDS 2021 SUBMISSION

Project: UCHEALTH GRANDVIEW MEDICAL CENTER

Equipping Orthopedic and Sports Medicine Care

UCHealth's new medical office building, adjacent to UCHealth Grandview Hospital in Colorado Springs, is a three-story, 65,000 square-foot structure that houses orthopedic specialists, primary care physicians, radiologists, physical and occupational therapists, and other medical professionals and staff.

When complete, the Grandview campus will be southern Colorado's first full-service health campus focusing on sports medicine and orthopedic care.

Berwick Electric served as the electrical specialty contractor for general contractor Hensel Phelps. The project broke ground in August 2019 and achieved substantial completion in October 2020. The medical office building officially opened to patients in May 2021. The project delivery method for the core and shell and tenant fit-out was design-bid-build with an electrical contract totaling \$2.6 million.

The state-of-the-art medical office facility is powered by a 2,000-amp, 480-volt service and backed up with a 450-kilowatt generator. A main electric room and three satellite electric rooms – one on each floor – serve the building and its occupants.

Ensuring Patient Comfort, Safety, and Clear Communications

Having spent years working in active healthcare environments, the Berwick team knows that patient comfort and safety is paramount. Calming and well-lit treatment and common spaces utilized energy efficient LED lighting. Berwick Electric also built the infrastructure network for a comprehensive fire alarm voice evacuation system for UCHealth Grandview's new medical office building.

Powering Imaging

As the team's electrical contractor, Berwick installed specialized infrastructure comprised of all electrical conduit, medium and low voltage conductors, junction boxes, and termination points. This infrastructure extended through the medical office building's five departments: imaging, ortho, multi-specialty, primary care and rehab, complete MRI suite, an MRI suite shell space, one CT suite, two radiology suites, and two ultrasound rooms. Berwick worked in tandem with the medical equipment manufacturer and supplier Siemens Healthcare on the installation of MRI, CT and radiology equipment.

Installing Infrastructure

Berwick built out the electrical infrastructure for the orthopedic spaces in the new medical office building, including 19 exam rooms, two X-ray suites, one CT room, one casting room, and two treatment rooms.

In the multi-specialty areas of the facility, Berwick's expertise is visible in the electrical infrastructure powering these spaces. A network of conduit equips the medical office building's primary care spaces, including 10 exam treatment rooms and 3,000 square feet of open treatment space where patients complete their physical, occupational and speech therapy.

In its entirety, Berwick's work on the new UCHHealth Grandview medical office building required 60,000 feet of electrical conduit and almost 50 miles of conductors.

Covid-Specific Challenges

Securing manpower and material during a pandemic and adhering to strict COVID-19 protocols proved the steepest challenge throughout the 14-month project. Managing worker logistics while performing multi-trade tasks simultaneously in 15x15-foot treatment areas challenged the respective trades to collaborate to ensure that workers stay healthy while working safely, efficiently, and on schedule. As a result, the project concluded on time and within budget.

Continuity of Care

Berwick is proud to have served UCHHealth on many projects through the years. Being a part of the project team to build and equip the new Grandview campus to provide world-class sports medicine, orthopedic and rehabilitative care to patients across southern Colorado has been a privilege.



The UHealth Grandview Medical Center brings specialists and primary care doctors to the Grandview campus.



The density of infrastructure in electrical rooms required intensive upfront design coordination.





Energy efficient LED lights aid in recovery ensuring safety in an OT / PT treatment room.



Imaging room



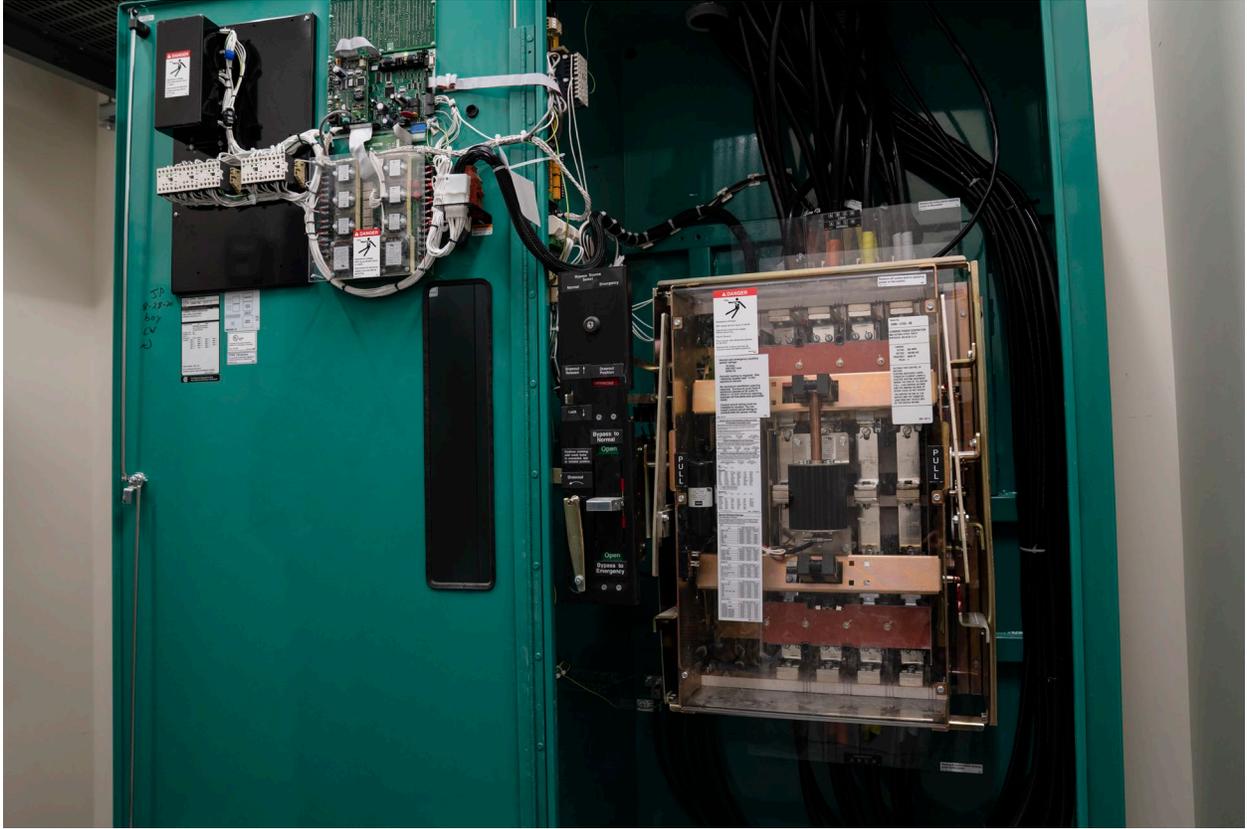
A typical patient exam room



Patient treatment room



An automatic transfer switch provides fail-safe reliable transfer of power between normal and back-up sources.



Transfer switch control panel