

SHAPING FUTURES

Riverside University Health System
Moreno Valley Regional Medical Center
Emergency Department



“The entire team at Tilden-Coil was nothing but exceptional. This was an extremely accelerated major project that was challenging for both the medical center and Tilden-Coil. The team consistently communicated and provided exceptional work with nothing but integrity and determination.”

- Lisa Mackie, MSN, RN, Clinical Administrator, Emergency Services

SHAPING FUTURES

RUHS Medical Center ED

Negative Pressure

The COVID-19 Pandemic has brought a plethora of new protocols and building system requirements for hospital emergency departments.

Tilden-Coil Constructors was called on to serve the Riverside University Health System Moreno Valley Regional Medical Center Emergency Department. The objective was to accomplish mechanical system retrofits and bring negative pressure air to the emergency department to create another level of safety for staff to treat patients. With a negotiated delivery under an emergency agreement, Tilden-Coil sprang into action to coordinate the mechanical system design development and other plumbing, electrical, and interior remodel scope for the retrofit. Subcontractors were intentionally selected to meet the schedule requirements and demands of working within a fully operational emergency department. Construction commenced on October 7, 2020 and completed on December 31, 2020, weeks earlier than contracted. An accelerated schedule and meticulous cost management resulted in budget savings for the hospital.

The Tilden-Coil team intentionally planned a round-the-clock work schedule in double shifts, 7 days a week, to complete phased areas of work while emergency department operations continued to serve patients without interruption. In daily coordination with hospital administration, RTM Engineering Consultants, and HMC Architects, the scope was organized into thirteen phases and delivered on a tight turnover schedule so that the emergency department could bring treatment/exam rooms back into service, typically within a few hours after turnover and furniture/equipment outfitting. With construction underway, Tilden-Coil responded quickly to hospital administration scope additions to procure and install all changes within the same early completion deadline.

Fully framed work area containment—drywall partitions, protection of all emergency devices, HEPA filters for each room, and continuous



worksite cleaning throughout all shifts—allowed for seamless emergency operations around the work areas. Tilden-Coil generated a 21-page Job Hazard Analysis (JHA) to develop a specific plan for absolute adherence to best safety practices and work processes within this operational hospital emergency department, especially considering work environments potentially containing COVID-19. The JHA and plan was then approved by hospital infectious disease control staff.

Mechanical enhancements provided additional negative pressure and supplemented the existing system with added fresh air/exhaust and tighter temperature regulation. Scope included two new air handling units, one chiller, four exhaust fans, variable frequency drives (VFD's), structural steel platforms, and steel mechanical screens to create negative pressure environments in the emergency department, as well as three additional isolation treatment rooms. The interior renovations included new Dirtt aluminum glass partition walls, plumbing fixtures, fire alarm upgrades, exam room lights, HVAC ductwork, acoustical ceilings, casework, flooring, paint, and wall protection throughout the twenty-nine-room emergency department.

Teamwork and communication are the essence of overcoming hurdles to successfully meet a challenge. With the cooperation and flexibility of hospital administrators and the Tilden-Coil team, a near impossible schedule acceleration was met. Working side by side with patient care and safety paramount, the project team prevailed, and the Moreno Valley Regional Medical Center is better equipped to meet evolving needs in patient care.



“Tilden Coil’s management team is nothing short of amazing. They have been detailed, organized, and reliable throughout this construction project. They kept in constant communication with ED leadership, Infection Control, and hospital project management. Tilden Coil’s detailed management is what allowed for the construction project to finish on time. They really were a partner to the hospital through this whole project. The hospital leadership team is so thankful that Tilden Coil was the contractor on this job.”

- Angela Simpkins, RN, BSN, MA, Executive Director, Quality and Service Excellence



Partners

Great accomplishments require great partnerships! Tilden-Coil recognizes the following subcontractors whose focused efforts to accelerate construction resulted in the early completion of this project:

- ACCO Engineered Systems, Inc.
(contracted with the County)
- Canyon Steel Fabricators, Inc.
- Caston, Inc.
- Daart Engineering Company, Inc.
- Donald M Hoover Company
- GM Business Interiors
- H.L. Moe Co., Inc.
- HCI Systems, Inc.
- K&Z Cabinet Co., Inc.
- Letner Roofing Company
- R.I.S. Electrical Contractors, Inc.
- Roseland Painting and Decorating
- Seamless Care Inc.
- Southcoast Acoustical Interiors, Inc.
- Tiller Constructors

