

SHAPING FUTURES

Parkview Community Hospital Emergency Room Expansion



Shaping Futures at Parkview Community Hospital

A critical healthcare resource is expanded in Riverside! Parkview Community Hospital completed its emergency room expansion in November 2019 adding 28 beds to increase its emergency department to 41 beds total. With overcrowded waiting areas and overflow patients, this emergency department augmentation is a welcome resource for the community.

Parkview Emergency Room Expansion Quick Facts

- 18,650 sf, single story, slab on grade building
- A spacious lobby with floor-to-ceiling windows
- Separate entrances for emergency medical services and walk-in patients
- 28 new emergency beds
- 25 private, spacious rooms, fully enclosed with glass privacy doors
- 3 fast-track beds for lower-acuity patients staffed with a provider for an emphasis on rapid treatment and turnaround
- 3 critical-care rooms
- 2 designated rooms for maternity care
- 1 designated room for pediatric care
- 2 negative pressure rooms to prevent airborne contaminants from affecting other rooms
- 1 decontamination room for patients who have been exposed to hazardous material
- Provider care in triage so lab work and x-rays can begin even before a bed is assigned
- All new state-of-the-art equipment

The scope of the project also includes relocation of utilities, medical gas, and site work as well as a 2,025 sf Utility Building for MEP (Mechanical, Electrical, Plumbing) emergency services.

The Transformation

Parkview Community Hospital engaged Tilden-Coil Constructors via a CM At-Risk delivery method, and Tilden-Coil provided significant design assist services with the project architect, Cannon Design, enabling Parkview to make best value decisions. Tilden-Coil’s team provided solutions related to the change in building type from 1A to 1B at the porte cochere for ambulance delivery, and obtained the necessary approvals from OSHPD, the Area Compliance Officer and Fire Life Safety Officer. Additionally, the team recommended a solution for the connection to the existing building to preserve the fire rating: raise the parapet of the existing building and add four courses of block to satisfy a stepped roof condition. Fire modeling confirmed this solution would work and Tilden-Coil spearheaded all required approvals to implement the design change and pass inspection.



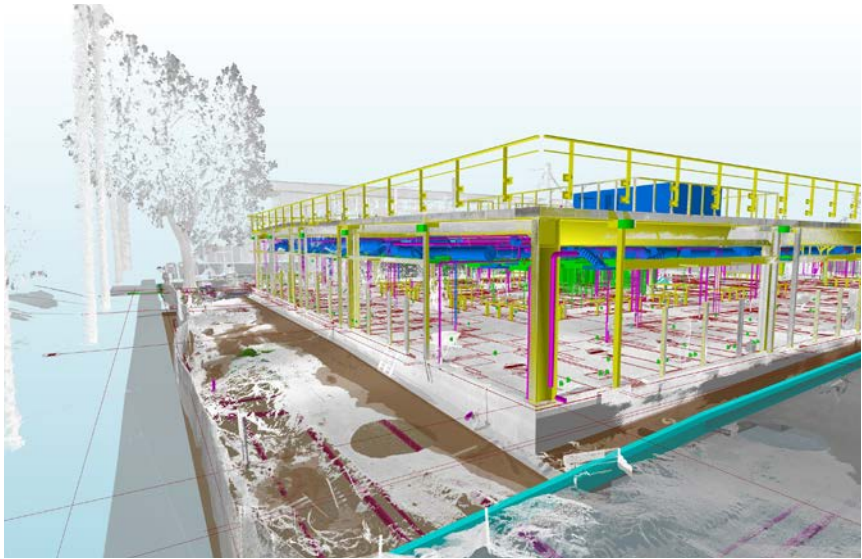
The Transformation *Continued*

OSHPD (Office of Statewide Health Planning and Development) demands one of the highest levels of structural safety requirements for MEP systems. Critical building systems cannot fail in an earthquake! Medical gases, exam lights and overhead structure in emergency exam rooms must be structurally supported for seismic activity. This adds significant density above the ceiling of emergency rooms; a space that is already consumed by the MEP systems, nurse call systems, patient monitoring systems and all the critical infrastructure required for patient care. Each component was installed in its proper place and coordinated with all the other components. Utilizing Tilden-Coil's in-house 3D modeling of these details to get it right during design, rather than coordinating them manually in the field during construction, saved significant time and money.



New Patient Room

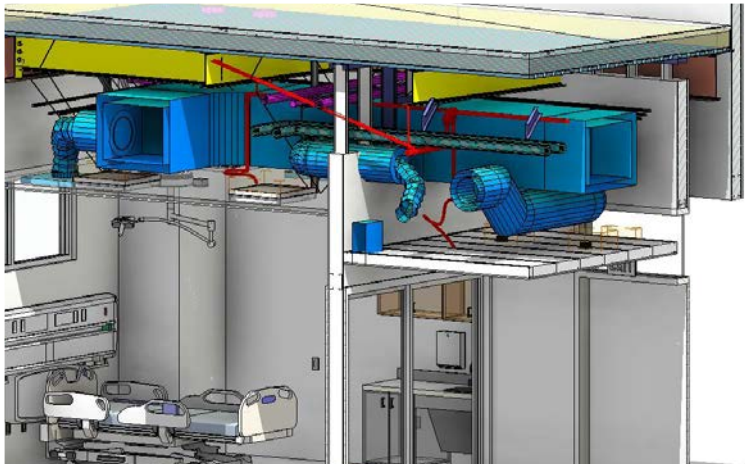
Building Information Modeling



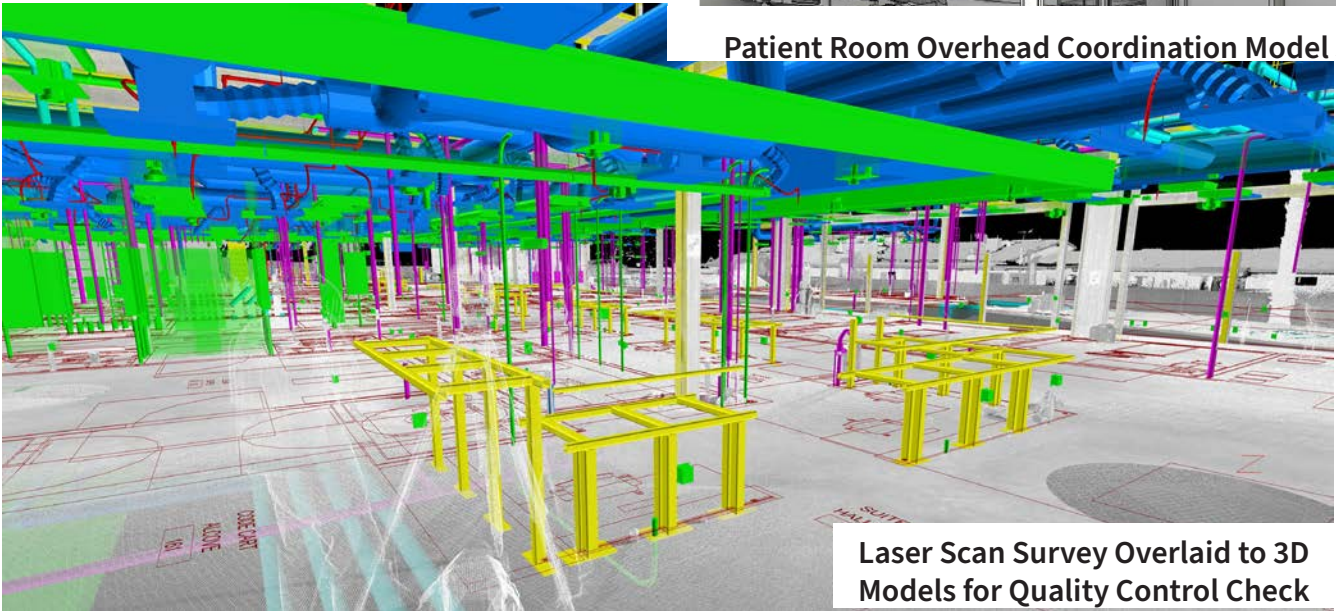
Steel Column & MEP Utility Stub Up Verification Model

and overlaid these on to the architect's wall layout design to confirm location alignment. With the high level of quality control and detail assurance, Parkview opted to place more electrical underground in the slab preserving precious overhead MEP space. This option resulted in material and labor cost savings.

Quality control measures included a virtual mockup for each patient room's head wall to coordinate all utilities, medical gases, and patient care systems, and their respective vendors, in this limited space. Each patient room had a varying head wall configuration that required precise coordination and installation to achieve the correct result.



Patient Room Overhead Coordination Model 3D View



Laser Scan Survey Overlaid to 3D Models for Quality Control Check



Throughout the entire project, hospital operations continued seamlessly. The Tilden-Coil team coordinated daily with Parkview’s Facility Team as part of their intentional communication plan. The overarching goal achieved was “no impacts” to Parkview’s ability to continue to provide medical and emergency services to the community.



Construction Partners

Great accomplishments require great partnerships! Tilden-Coil recognizes those exceptional subcontractors who played a major role in completing this project:

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| <ul style="list-style-type: none"> • American Landscape, Inc. • American Technologies, Inc. • A-Throne Company, Inc. • Best Contracting Services, Inc. • Coast Building Products • Construction Hardware, Co. • Courtney, Inc. • Coutts Heating & Cooling, Inc. • Daart Engineering Company, Inc. • Donald M. Hoover Company | <ul style="list-style-type: none"> • F3 & Associates, Inc. • Final Cleaning Solutions, Inc. • Floored Tile and Stone • GBC Concrete & Masonry Construction, Inc. • H.L. Moe Company, Inc. • Infinity Metals, Inc. • KCB Towers, Inc. • L.D. Anderson, Inc. • Mel Smith Electric, Inc. • M-Tech Glass, Inc. | <ul style="list-style-type: none"> • Orange County Plastering Company, Inc. • Rebar Engineering, Inc. • R.C. Construction Services, Inc. • Southcoast Acoustical Interiors, Inc. • Stolo Cabinets, Inc. • Terra Pave, Inc. • Triumph Painting |
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“Tilden-Coil has been a staple in this community for so long...[Tilden-Coil] has put so much into this community and done such an amazing job.”
- David Batista, Executive Vice President, AHMC Healthcare



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