

# The Children's Center Rehabilitation Hospital

Bethany, Oklahoma

The Children's Center Rehabilitation Hospital provides advanced, specialized pediatric medical care that helps children and teenagers transition from intensive hospital care to successfully living at home. The hospital offers 24-hour medical care, comprehensive rehabilitation therapies, respiratory care, and special education. Learn more at: [www.miracleshappenhere.org](http://www.miracleshappenhere.org)



## CHALLENGE

- HVAC systems for the 120-bed Hospital were inefficient and aging.
- Needed a safe, reliable operating system to provide stable patient care.
- Needed HVAC systems to accommodate massive growth. The Hospital was planning a 100,000 square-foot expansion.
- New equipment needed to be installed without interrupting patient care.



## SOLUTION

- In 2013, the Hospital built a central physical plant and expanded the building automation system.
- Trane worked with mechanical contractor, Streets, and consulting engineer, Darr & Collins, to design the new physical plant.
- Physical plant houses four large cooling towers, two Trane Centrifugal Chillers, Trane Fan Coil Units and Trane Air Handling Units.



## RESULTS

- Annual operating and maintenance costs were reduced by as much as one third.
- New physical plant gave the Hospital an opportunity to apply for energy rebates. In 2014, the Hospital was awarded a \$48,000 rebate from Oklahoma Gas and Energy.
- New HVAC system delivers filtered and controlled air evenly throughout the building to reduce airborne viruses, bacteria, mold and other contaminants.

"The central plant project has been in development for about five years. Without the planning and support of Trane this project would not have gone as smoothly as it has. My thanks to Trane for their support." - Keith McClain, Project Manager, Streets Mechanical

