

Ohio Valley Surgical Hospital O.R. Addition

Springfield, OH

Project Completion: 2018
Sizes: 4,200 SF
Tri-Tech Services: PME Engineering



Note: Photos show existing operating rooms used as the basis of design for the expansion project.

Project Description

Ohio Valley Surgical Hospital sought to expand their facility to add two new operating rooms for additional surgical capacity. The project consisted of an addition to the existing facility for the new operating rooms, a shell space for a future hybrid OR, and a new sterilizer for OR equipment.

Tri-Tech provided plumbing, mechanical, and electrical engineering for the project. Electrical design included lighting, power distribution, and coordination with the owner for additions to the existing fire alarm, nurse call, access control, and tele/comm systems. Plumbing design included new scrub sinks, medical gas design, roof drains, natural gas supply for the new air handling unit and sterilizer, and fire suppression. Mechanical design included design for a new air handling unit, chiller, and piping for both hot and chilled water systems.

Tri-Tech was able to connect to existing electrical and water distribution, as well as the existing boiler system. Additionally, infrastructure was designed for the future hybrid OR as well, to minimize future impact.

During the course of design, it was discovered that the existing chiller serving the entire hospital did not have capacity for the new addition. Tri-Tech worked with the owner to design a new chiller system which would be included in this project. The new chiller would be sized to provide capacity for the entire hospital in addition to future spare capacity. This system would be connected to the existing chiller system to provide full redundancy for the entire hospital, to reduce the impact the hospital might realize if there were to be a failure due to the equipment.

To satisfy owner requirements for the operating rooms, a dedicated air handling unit was designed for these operating rooms. Special consideration was taken to provide tight temperature and humidity control in each of the operating rooms.