

Pembroke Elementary School

Addition and Renovation

Owner: Christian County Board of Education

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Building Area: 86,000 SF.

Construction Cost: \$ 15,000,000

MEP \$2,124,000 + \$ 1,100,000 GESC

Project Status: Completed Fall 2015



Project Description: This project included complete renovation of existing 40,000 SF building, including integrating a HVAC performance contract, along with 46,000SF in new additions that were attached to each side of the existing building. All new site utilities were installed for the project



Engineering Highlights:

HVAC:

The existing 40,000 SF building was completely renovated with a new HVAC system via GESC (Guaranteed Energy Savings Contract). The work was done at the same time as a general contracting project without any loss in construction time. The coordinating efforts allowed the school to be opened in time for the beginning of the school year. The existing geothermal well fields were reused for the existing section and the building was converted to a Hybrid HVAC system with the 46,000 SF addition.

Electrical / Systems:

This challenging phased project included demolishing the existing main electrical room first that also served the kitchen. This room had to be removed early in construction so a new kitchen could be added. The existing kitchen was temporarily rewired from a new service to keep it in operation for one year, until the new kitchen addition was completed. This was accomplished during the summer and the kitchen was ready when the students returned at the beginning of the school year. The existing 40,000 SF was completely rewired with all new data, power and lighting and services during the summer break.

Plumbing:

The existing exterior sanitary sewer system, fire and potable water lines were all renovated in the first summer of this multi-phased project.