

**Project Data**

Original Budget: \$8,000,000  
Original Contract: \$8,470,100  
Final Contract: 8,824,670  
Original Completion: 8/1/2015  
Actual Completion: 8/1/2015  
Type: Renovation, Infrastructure  
Upgrade, Addition  
Size: 72,000 sf  
Referendum: SUCCESSFUL  
MEP Change Orders: \$64,095  
Chapter 573 Claims: None  
Litigation: None

**Energy Performance**

Utility Rebate: \$146,727  
EUI: 37.1 kBtu/sf/yr  
ECI: \$1.19 \$/sf/yr  
% Better Than Code: 47%  
\$ Saved: \$74,443/yr  
\$1.04/sf/yr

**Owner**

Iowa City Community  
School District  
Duane VanHemert  
Physical Plant Director  
319.688.1020  
VanHemert.Duane@  
iowacityschools.org

**Team**

Principal in Charge  
Dwight Schumm, PE, LEED AP

Project Manager  
Jonathan Gettler, PE

Mechanical Engineer  
Kelly Harrer, PE, LEED AP  
Adam Bunnell, PE, LEED AP

Electrical Engineer  
Jonathan Gettler, PE

Architect  
OPN Architects  
200 5<sup>th</sup> Avenue SE #201  
Cedar Rapids, Iowa 52401  
319 363-6018



**Additions and Renovations Bring a Classic School to the 21<sup>st</sup> Century**  
Built in 1961, Penn Elementary School was the first Iowa City Community School District facility built in North Liberty. The original school was designed to serve up to 300 students, and over the past 50 years had grown to over 500 students. In 2014, Design Engineers and OPN Architects were hired to transform the school's learning environments by renovating the existing 42,616-square-foot building and designing a 28,964-square-foot addition.

New construction included eight classrooms, a computer lab and media center, gymnasium, outdoor courtyard, administrative areas and mechanical spaces. Renovation work included new sprinkler system, lights, ceilings, electrical upgrades, new bathroom fixtures, and new finishes.

The school was upgraded to a geothermal vertical ground loop from the existing boiler. The existing school was fitted out with packaged vertical air units in each classroom which were geothermal with total energy recovery wheels. The existing administration area was fitted out with a variable refrigerant flow system, with geothermal-sourced condensing unit. Fire suppression systems were provided.

