

PHOENIXVILLE EARLY LEARNING CENTER AND ELEMENTARY SCHOOL

Phoenixville, PA 152,000 SF (GROSS) Two Stories \$80 Million (Overall)



Learning Studio



Learning Stairs Atrium



First Floor Media Center

CPEP: https://www.engr.psu.edu/ae/thesis/ portfolios/2016/noa5100/index.htm

DESIGN TEAM:

Owner: Phoenixville Area School District Architect: SCHRADERGROUP architecture LLC MEPFP: Barton Associates Inc Structural: SCHRADERGROUP architecture LLC

Civil: T&M Associates Landscape Architecture: T&M Associates

Building Systems

Architectural Function: Education, including; classrooms, offices, cafeteria,

gymnasium, media center, art studio

Façade: Prefinished cementitious siding product system with

lapped and stacked assemblies. As well as a sand

blasted CMU Veneer.

Structural Lateral System: Braced Framing with reinforced CMU Shear Walls,

Moment Frames may be used if brace frames cannot be

accommodated.

Foundation: Concrete Piers will be used and sized on specific loads. Floor System: 3-1/2" Normal Weight Concrete topping on 2" 20 GA

composited metal floor deck. Slab is reinforced with #4

rebar at 16" spacing.

Mechanical Heating: Three High Efficiency Condensing Boilers provide

heating for the water to serve 88 water source heat pumps. Condenser water units circulate water from

heat pumps to boiler and cooling tower.

Cooling: One Cooling Tower provides chilled water to the

rest of the building and uses a flat plate heat ex

changer to condense water.

Ventilation: Water Source Heat Pumps are found in every class

room as well as 10 Energy Recovery Ventilator Units

on the roof.

Electrical/ Supply: Building is serviced by a 277/480V, 3-phase, 4-wire,

1600A Underground service from a utility

transformer.

Lighting: Primarily is 277V fluorescent lamp fixtures. They will be

long-life T8. Exterior Lights, downlights, and accent

fixtures will be LED.

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Lighting