

# Springhill Elementary School

Greenbrier, Arkansas

## Architect

Jackson Brown Palculict Architects

Springhill Elementary is the newest K-5 facility in the Greenbrier School District of Greenbrier, Arkansas. The school is designed for up to 600 students and has a built-in FEMA shelter large enough for 1,100. There are 20 new state-of-the-art classrooms and four kindergarten classrooms, a computer lab, a multimedia center, a music room, and a fine arts classroom. The building also contains a full-service kitchen and cafeteria.

The building sits on a 40-acre site that has been master planned for future growth. The traffic design separates parent pickup/drop off from school bus pickup/drop off. A large, secure playground is positioned at the rear of the building, and features three separate age-appropriate zones that allow for good teacher visibility and easy access to drinking fountains and restrooms.

The building plan is broken up into four separate wings, all based on function and security. Special care was taken to segregate each learning space acoustically from outside noises. The areas that will be used by students from multiple classrooms have been given a centralized, easily accessible location. Each wing can be locked down in case of emergency. Each learning space has an escape hatch that is recognizable to the students and faculty by the use of yellow glass.

The north wing contains the gym/FEMA shelter, an occupational/physical therapy room, a resource room, a kitchen, and rooms for administration and health. The central wing contains the student dining room, a self-contained classroom, a computer lab, and a multimedia center. The east wing houses kindergarten, first, and second grades. The south wing houses music, art, third, fourth and fifth grades.

### Product Information

**Building Envelope:** American Buildings, a Nucor Company, Acme Brick, James Hardie

**Roofing:** Nucor, Duralast  
**Windows, Entrances & Storefronts:** EFCO, a Pella Company, Trulite

**Flooring:** Stonepeak, Daltile, Mondo, Roppe, Mannington, Forbo

**Interior:** Continental Building Products, Georgia Pacific, Armstrong, Marino Ware

**Lighting:** Contech, Columbia, Light Frame, Prescolite, Camman, Phillips



The artistic and colorful exterior of Springhill Elementary School.



Large colorful and clear windows look out on the street.



Modern learning spaces with modular desks and yellow "escape hatch" window.

Photos Courtesy of Stitler & Henry

**Architect**

Jackson Brown Palculict Architects  
12921 Cantrell Road, #201, Little Rock, AR 72223  
[www.jpbarchitects.com](http://www.jpbarchitects.com)

**Project Team****Structural Engineer**

Engineering Consultants, Inc.  
401 W. Capitol Avenue, #305  
Little Rock, AR 72201

**Mechanical & Electrical Engineer**

Brown Engineers, LLC  
17200 Chenal Parkway, #300 PMB 324  
Little Rock, AR 72223

**General Contractor**

Nabholz Construction Corporation  
612 Garland Street  
Conway, AR 72032

**Project General Description**

**Location:** Greenbrier, Arkansas

**Date Bid:** Jun 2015

**Construction Period:** Jun 2015 to Jul 2016

**Total Square Feet:** 62,793 **Site:** 48 acres.

**Number of Buildings:** One; 31 classrooms, gymnasium seating 201.

**Building Sizes:** First floor, 62,793; total, 62,793 square feet.

**Building Height:** First floor, 31'; total, 31'.

**Basic Construction Type:** New/II B, Sprinklered/Pre-engineered metal building.

**Foundation:** Cast-in-place, slab-on-grade.

**Exterior Walls:** CMU, brick, precast concrete, cementitious siding, metal panels.

**Roof:** Membrane, metal.

**Floors:** Concrete.

**Interior Walls:** Metal stud drywall.

**DIVISION**

**COST % OF SQ.FT. COST**

**SPECIFICATIONS**

PROCUREMENT & CONTRACTING REQUIREMENTS	438,149	4.17	6.98	—
GENERAL REQUIREMENTS	1,103,354	10.49	17.57	—
CONCRETE	1,115,479	10.61	17.76	Forming & accessories, reinforcing, cast-in-place, precast.
MASONRY	320,348	3.05	5.10	Unit.
METALS	23,587	0.22	0.38	Structural metal framing, cold-formed metal framing.
WOOD, PLASTICS & COMPOSITES	382,600	3.64	6.09	Finish carpentry, architectural woodwork.
THERMAL & MOISTURE PROTECTION	81,710	0.78	1.30	Dampproofing & waterproofing, thermal protection, weather barriers, roofing & siding panels, flashing & sheet metal, joint protection.
OPENINGS	558,023	5.31	8.89	Doors & frames, entrances & storefronts, windows, hardware, glazing, louvers & vents.
FINISHES	1,534,381	14.59	24.44	Plaster & gypsum board, tiling, ceilings, flooring, wall finishes, acoustic treatment, painting & coating.
SPECIALTIES	213,232	2.03	3.40	Canopies, awnings, miscellaneous.
EQUIPMENT	291,814	2.77	4.65	Food service, athletic.
FURNISHINGS	12,439	0.12	0.20	Window treatments.
SPECIAL CONSTRUCTIONS	1,214,696	11.55	19.34	Pre-engineered metal building.
MECHANICAL	1,771,419	16.83	28.20	Fire protection, plumbing piping & pumps, plumbing equipment, plumbing fixtures, HVAC air distribution, central heating equipment, central cooling equipment, central HVAC equipment.
ELECTRICAL	1,455,346	13.84	23.18	Medium-voltage distribution, low-voltage transmission, facility electrical power generating & storing equipment, LED lighting.
<b>TOTAL BUILDING COSTS</b>	<b>10,516,577</b>	<b>100%</b>	<b>\$167.48</b>	
EXISTING CONDITIONS	1,769,936			Site clearing, earth moving, bases, bollards & paving, curb & gutter, playground equipment, planting, water, sanitary sewerage, storm drainage, electrical, communications.
<b>TOTAL PROJECT COST</b>	<b>12,286,513</b>			

**UPDATED ESTIMATE TO OCTOBER 2017: \$184.81 PER SQUARE FOOT**

**Regional Cost Trends**

*This project, updated to October 2017 in the selected cities of the United States*

EASTERN U.S.			CENTRAL U.S.			WESTERN U.S.		
Sq.Ft. Cost	Total Cost		Sq.Ft. Cost	Total Cost		Sq.Ft. Cost	Total Cost	
Atlanta, GA	\$215.22	\$13,514,100	Dallas, TX	\$208.20	\$13,073,423	Los Angeles, CA	\$278.38	\$17,480,194
Pittsburgh, PA	\$271.36	\$17,039,517	Kansas City, KS	\$280.72	\$17,627,087	Las Vegas, NV	\$254.98	\$16,011,270
New York, NY	\$346.22	\$21,740,074	Chicago, IL	\$292.41	\$18,361,549	Seattle, WA	\$278.38	\$17,480,194

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