Project and Designer Info	rmation:	***		III 111
Region:				Eastern North Carolina
School Information:	oformation: 785 Student Elementary Sch			
Property (DSP) No: Design Capacity: Core Capacity: Grade Organization:			670-4575 785 Students 945 Students K-5	
Architect:			460	Smith Sinnett Architecture 00 Lake Boone Trail Suite 205, Raleigh, NC 27607 Phone: (919) 781-3979 Email: info@smithsinnett.com Web Site: www.smithsinnett.com
Other Recent Prototype Lo	ocations:			
Times Prototype has been Con-				
Construction Costs & Building Area: (Does not include, land, legal, design fees, testing or furnishings)				
Date Bids Received:				8/14/2007
Construction Bid Cost:				\$15,658,409.85
Architectural Building Area:				96864sq.ft.
Assignable Area				66088sq.ft.
Assignable To Total Architectural Area Efficiency				68.20%
Cost per Assignable Square Foot				\$236.93
Cost per Total Architectural Squ	uare Foot			\$161.65
Cost per Student				\$19,947.15
Total Building Footprint (total all floors) Area				96864sq.ft.
Site Acreage:				
Construction Information:				
Building Code Construction Type:			Type I-B / II-B	
Construction Description:			Brick & CMU	
Roof:			Thermoplastic	
Number of Floors:				1
Number of Separate Buildings:				1
Heating Fuel:				Oil / Multi-fuel boiler
Heating & Air Conditioning:			4 pipe w/ scroll chiller	
Technology Infrastructure:			All rooms hard wired connectivity	
Design Consultants:				
Civil:			Parker & Associates Jacksonville, NC 28540	
Structural:	Neville Engineering Chapel Hill, NC 27516			

## **Designer and Owner Comments:**

Electrical

Plumbing/Mechanical:

Other Consultant:

Designer Comments: The Elementary School is the second iteration of this prototype designed. The school is divided into two buildings with a connecting corridor. One building houses the academic classrooms, Media Center, Administration, and support spaces. The other structure provides for food services, physical education, art and music. This section was designed to function independently from the classroom section to allow for general use by the community, including the ability to function as a shelter during emergency situations. The current iteration of this facility is designed to provide state recommended programs and space for a 785 student capacity; the original configuration of this prototype allotted space for a student capacity of 805. Both design options include core facilities for 945 students and, additionally, feature an oversized cafeteria that can accommodate 1,040 students. The school is accented with bright colors and spaces that welcome parents and the community. The central courtyard provides a protected outdoor classroom space where instructors can get students outside, within a secure environment. The academic wing is organized with classrooms grouped so that individual grade levels can be expanded or contracted to accommodate changes in enrollment. The building has a four pipe mechanical system and highers. Both the heating and cooling systems are designed with two central units (each at 60% capacity), so school can still be held if either a boiler or chiller fails or has to be taken out of service for repairs. The mechanical system combined with a well-insulated thermal envelope makes for an energy efficient building designed to reduce owner operating costs while making required maintenance easier to accomplish.

Progressive Design Collaborative (PDC) Raleigh, NC 27615

Progressive Design Collaborative (PDC) Raleigh, NC 27615

GNP Fire Protection Design Raleigh, North Carolina 27616

Owner Comments: Staff, Students and the community have embraced the new school and its efficient use of materials while providing a design that is pleasing to the eye. A couple of areas that were implemented with this project that are important to note include; the inner courtyard which has allowed us to extend the classroom room environment to the outside, and the multipurpose complex containing the cafeteria, kitchen, multipurpose room, music, and art rooms that can be used by the community when school is not in session. The design was focused on the instructional needs of the students and staff while minimizing the overall cost to maintain the building in the future. We believe this facility will be able to stand the test of time.