

2012 Exhibition of School Planning and Architecture

CIBOLO GREEN ELEMENTARY SCHOOL

San Antonio, Texas
Elementary School
Project of Distinction– New Construction

pfluger

CIBOLO GREEN ELEMENTARY SCHOOL



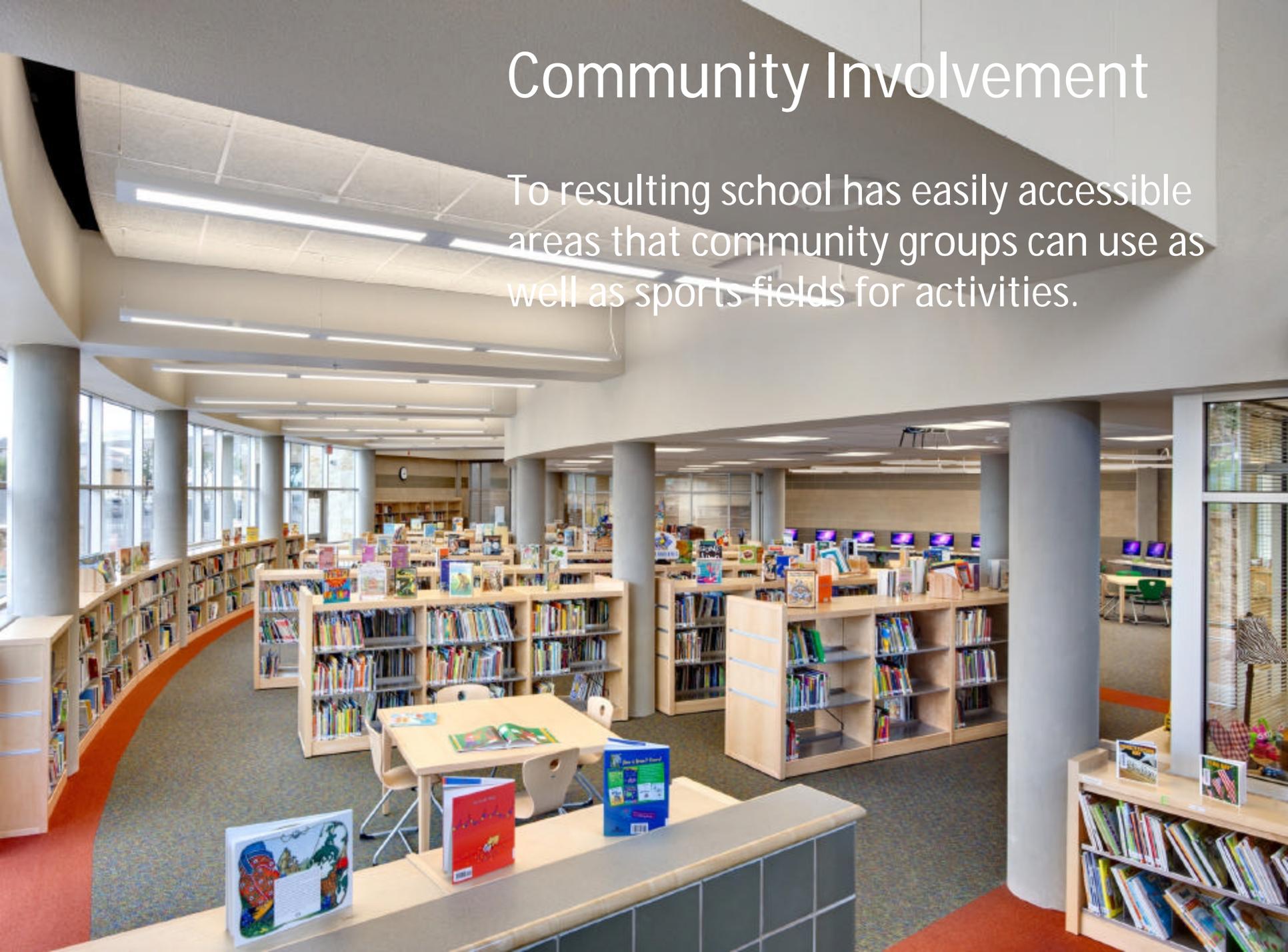
Community Involvement

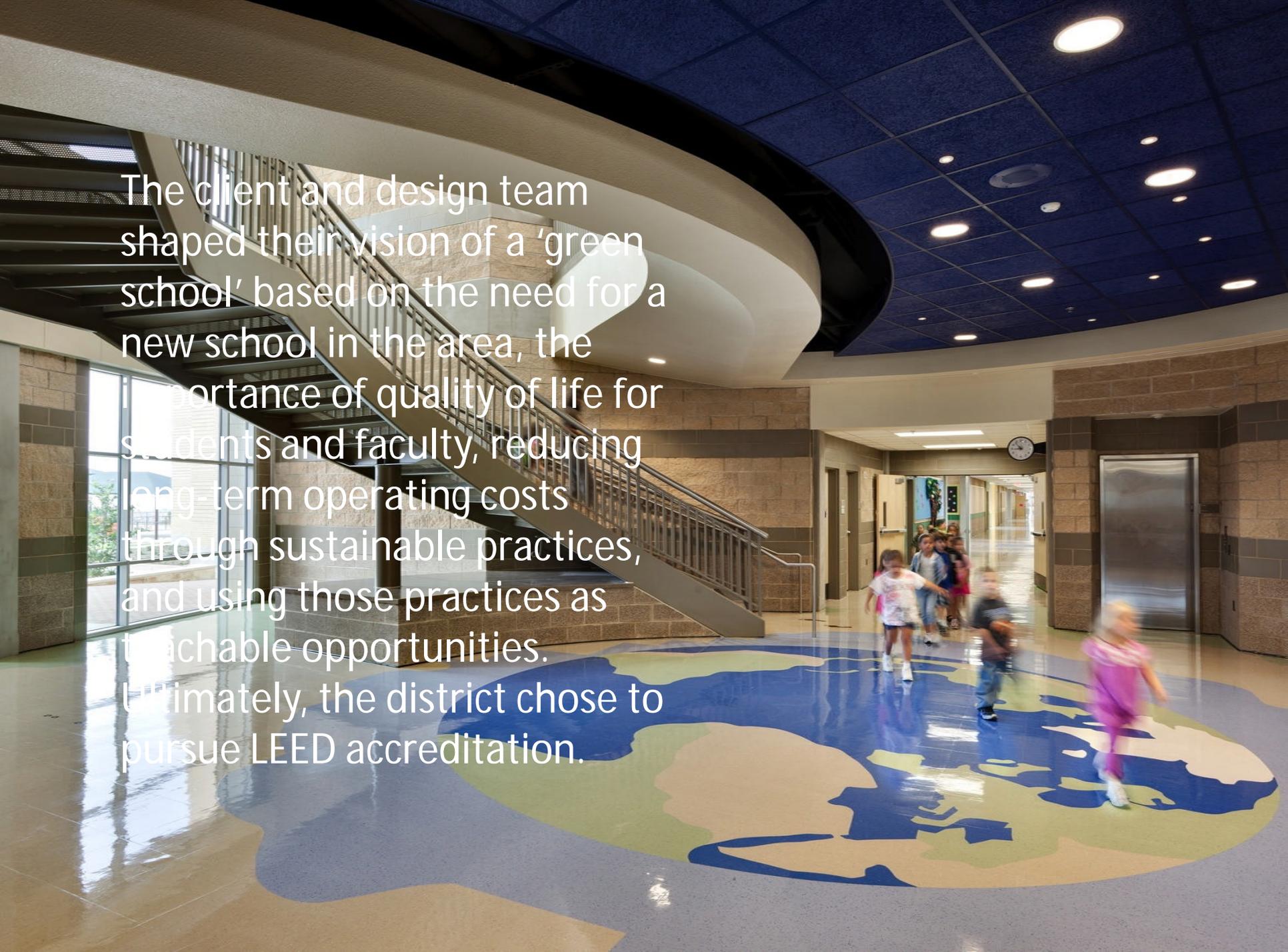
Cibolo Green Elementary School is located in a growing residential area with increasing development. The district's plan was for the school to be convenient for neighborhood children as well as serve as an outlet for community organizations.



Community Involvement

To resulting school has easily accessible areas that community groups can use as well as sports fields for activities.



A photograph of a modern school hallway. The floor is polished and features a large, colorful mural of a globe in shades of blue, green, and tan. To the left, a curved staircase with a metal railing leads to an upper level. The ceiling is dark blue with recessed circular lights. In the background, a group of children is running through the hallway. The walls are made of light-colored stone or brick. A clock is visible on the wall in the distance.

The client and design team shaped their vision of a 'green school' based on the need for a new school in the area, the importance of quality of life for students and faculty, reducing long-term operating costs through sustainable practices, and using those practices as teachable opportunities. Ultimately, the district chose to pursue LEED accreditation.

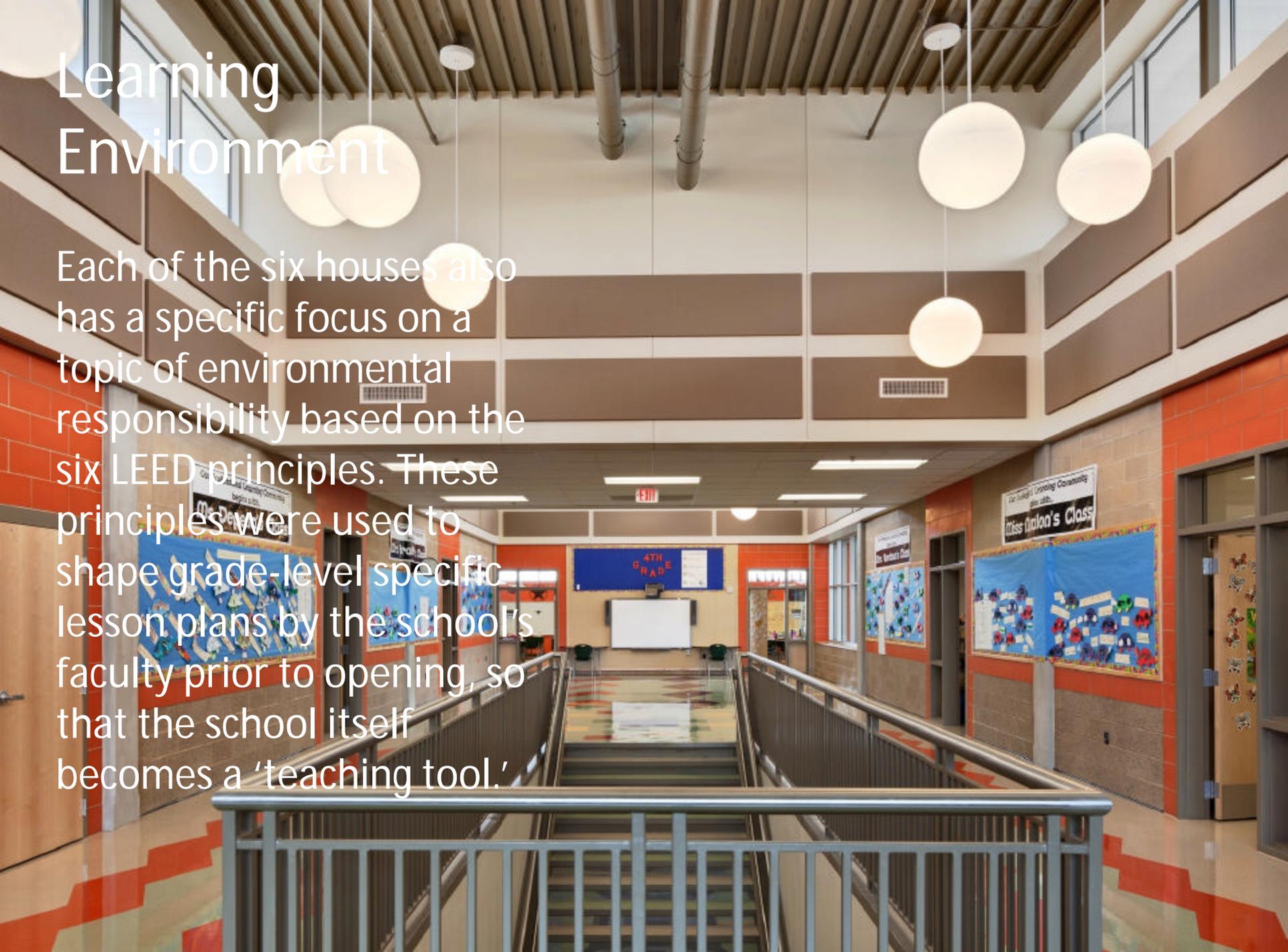
Learning Environment

The design of the elementary school places each grade level into an academic 'house.' Each house is designed as a collaborative gathering space for students outside the classroom, with available technology and abundant natural light.



Learning Environment

Each of the six houses also has a specific focus on a topic of environmental responsibility based on the six LEED principles. These principles were used to shape grade-level specific lesson plans by the school's faculty prior to opening, so that the school itself becomes a 'teaching tool.'



Sustainable Sites

We conserve and protect the school's site.



The places outside the building where you play have to be as nice as the building inside the building where you learn.

Right now, you are inside Cobleskill Elementary School. Outside the school building, the playground, sports field and tree canopy are all part of the school's site. Together, these places are called the site.

The IDEP staff for Cobleskill Elementary School designed the school's site to be a **Sustainable Site**. The word "sustainable" means that the site will be as nice as it is today for the school's future. Some things can be changed, but some things cannot be changed. For example, the school's site was designed to avoid disturbing the site.

When you go outside, look at the places where the trees are. The trees and shrubs you see are called **landscaping**. Landscaping is the art of planting trees and shrubs. Landscaping can be used to improve the site. Some of the things you can do to improve the site are:

- Plant trees and shrubs that are native to the area.
- Plant trees and shrubs that are drought-tolerant.
- Plant trees and shrubs that are low-maintenance.
- Plant trees and shrubs that are easy to care for.

When it rains, the water flows from the roof of the school building to the ground. The water can be collected and used to water the plants. This is called **rainwater harvesting**. Rainwater harvesting can be used to water the plants in the school building. This is called **rainwater harvesting**.

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1 Water
2 Shade
3 Trees



Water Efficiency

A natural resource like water must be conserved.



The water you drink and use at school is a natural resource that everyone shares. When you use less water, you are helping to make sure enough water is available for everyone.

The category of the IDEP staff for Cobleskill Elementary School is called **Water Efficiency**. The word "water efficiency" means that the school uses water in a way that saves water. Some things can be changed, but some things cannot be changed. For example, the school's water system was designed to save water.

When you use water, you are using a natural resource. Water is a natural resource that everyone shares. When you use less water, you are helping to make sure enough water is available for everyone.

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2 Shade
3 Trees



Indoor Environmental Quality

Improving the indoor environment helps you learn.



It is important for you to feel comfortable inside the school building. If you feel comfortable, you will be able to listen to your teacher and concentrate on your work.

The category of the IDEP staff for Cobleskill Elementary School is called **Indoor Environmental Quality**. The word "indoor environmental quality" means that the school building is designed to be a comfortable place to learn. Some things can be changed, but some things cannot be changed. For example, the school's indoor environment was designed to be comfortable.

When you are inside the school building, you are in the indoor environment. The indoor environment is the air that you breathe. The indoor environment can be improved in many ways. Some of the things you can do to improve the indoor environment are:

- Use energy-efficient lighting.
- Use energy-efficient heating and cooling systems.
- Use low-VOC paints and finishes.
- Use low-VOC adhesives and sealants.

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1 Sunlight
2 Fresh Air
3 Clean, unobstructed



Energy and Atmosphere

Reduce energy usage and generate power by sustainable methods.



The power used to run everything in the school, from computers to air conditioning systems, comes from different energy sources, which can be renewable and sustainable.

The category of the IDEP staff for Cobleskill Elementary School is called **Energy and Atmosphere**. The word "energy and atmosphere" means that the school building is designed to use energy in a sustainable way. Some things can be changed, but some things cannot be changed. For example, the school's energy system was designed to be sustainable.

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1 Water
2 Sunlight
3 Wind



Materials and Resources

Materials are carefully chosen for construction.



This school building is made of many different materials. The wood, glass, concrete, and steel. Each and every material used was selected carefully, because they are used in different ways, and they come from different resources.

The category of the IDEP staff for Cobleskill Elementary School is called **Materials and Resources**. The word "materials and resources" means that the school building is designed to use materials in a sustainable way. Some things can be changed, but some things cannot be changed. For example, the school's materials and resources were designed to be sustainable.

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1 Wood
2 Glass
3 Concrete
4 Steel



Design and Innovation

Think of new ways to be environmentally-friendly.



There are many different ways to think about helping the environment and improving your school. Can you think of any new ways to make the school better?

The category of the IDEP staff for Cobleskill Elementary School is called **Design and Innovation**. The word "design and innovation" means that the school building is designed to be a sustainable place to learn. Some things can be changed, but some things cannot be changed. For example, the school's design and innovation were designed to be sustainable.

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1 Water
2 Sunlight
3 Wind





Physical Environment

The design team made great efforts to address environmental concerns in dealing with the heavily wooded and sloping site, selecting earth-friendly materials, and lowering energy costs. At the same time, creating all indoor spaces to maximize occupant comfort and usage.



Planning Process

The 50+ member planning team had representatives of each stakeholder group:

Board & Executive Staff

Construction Management & Engineering

planning team members

Campus Administration

District Departments

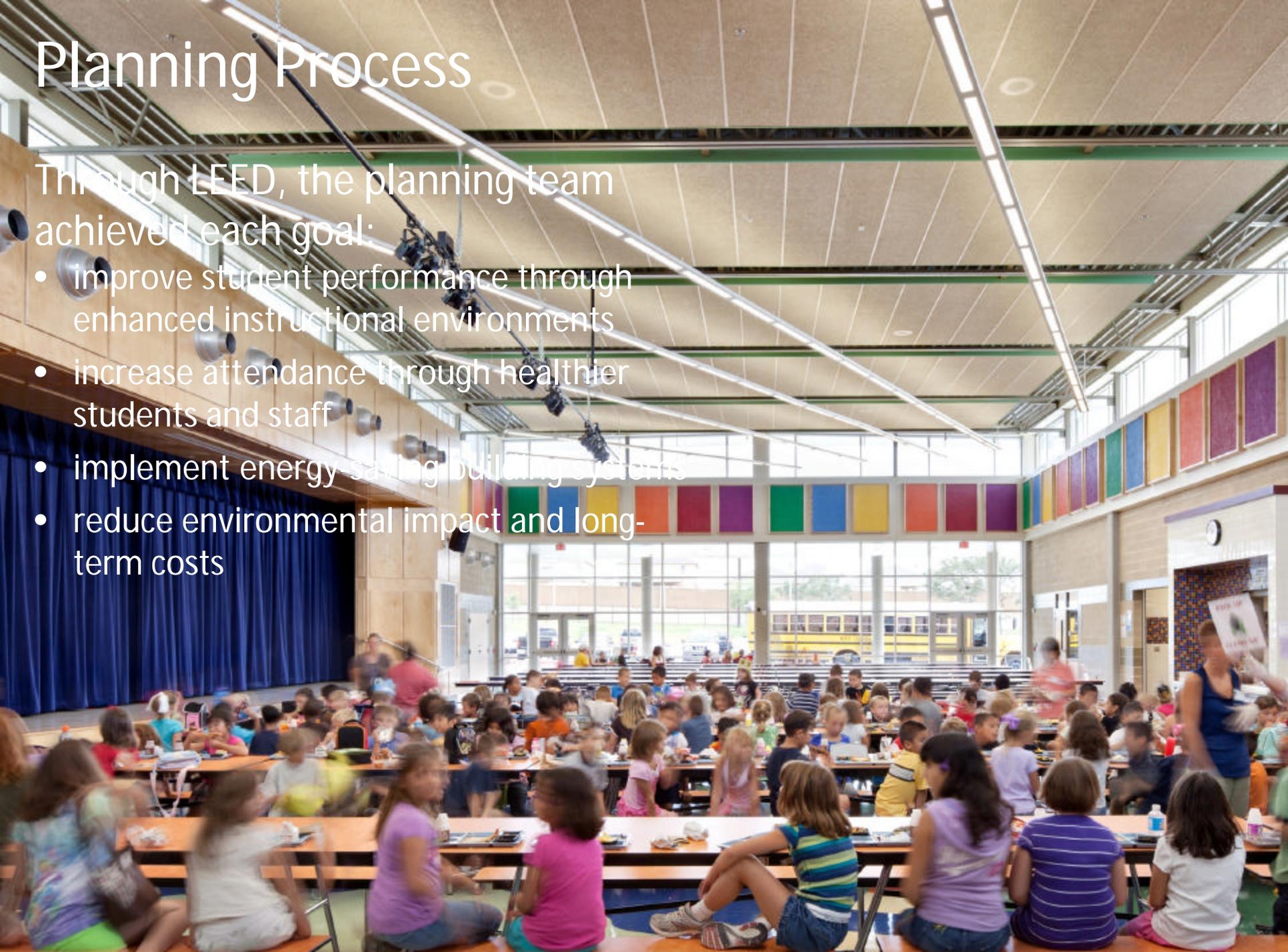
Design Team



Planning Process

Through LEED, the planning team achieved each goal:

- improve student performance through enhanced instructional environments
- increase attendance through healthier students and staff
- implement energy-saving building systems
- reduce environmental impact and long-term costs



<i>Sustainable Sites</i>	9 points (16 available)	<i>Certified</i> 29 to 36 points
<i>Water Efficiency</i>	3 points (7 available)	
<i>Energy and Atmosphere</i>	9 points (17 available)	<i>Silver</i> 37 to 43
<i>Materials and Resources</i>	6 points (13 available)	
<i>Indoor Environmental Quality</i>	13 points (20 available)	GOLD 44 to 57
<i>Design & Innovation</i>	6 points (6 available)	
TOTAL	46 points	<i>Platinum</i> 58 to 79



The result:

- *97% attendance rate – highest in the district at the end of the school's first year*
- *30% less energy used than comparably-sized elementary schools in the district within the first year of operation*



CIBOLO GREEN

Exhibition of School Planning and Architecture Project Data

Submitting Firm :	pfluger architects
Project Role	Architect of Record
Project Contact	Kent Niemann, AIA, REFP
Title	Partner
Address	1901 N New Braunfels Ave
City, State or Province, Country	San Antonio, Texas 78208
Phone	210-227-2724

Joint Partner Firm:	not applicable
Project Role	
Project Contact	
Title	
Address	
City, State or Province, Country	
Phone	

Other Firm:	not applicable
Project Role	
Project Contact	
Title	
Address	
City, State or Province, Country	
Phone	

Construction Firm:	Satterfield and Pontikes
Project Role	General Contractor
Project Contact	Brad Shearer
Title	Partner
Address	12807 Wetmore Road
City, State or Province, Country	San Antonio, Texas 78247
Phone	210-572-4700

Exhibition of School Planning and Architecture

Project Details

Project Name	Cibolo Green Elementary School
City	San Antonio
State	Texas
District Name	North East Independent School District
Supt/President	Brian Gottardy
Occupancy Date	Fall 2010
Grades Housed	PK - 5
Capacity(Students)	1200
Site Size (acres)	20
Gross Area (sq. ft.)	122,600
Per Occupant(pupil)	102
gross/net please indicate	gross
Design and Build?	Yes
If yes, Total Cost:	\$27,144,030
Includes:	building and site development costs
If no,	
Site Development:	
Building Construction:	
Fixed Equipment:	
Other:	
Total:	\$27,144,030